

WATER SAMPLING AND REPORTING SERVICES

COLUMBIA PUBLIC SCHOOLS
ROSETA AVENUE LEARNING CENTER
1100 SOUTH ROSETA AVENUE
COLUMBIA, MISSOURI

Prepared for:

COLUMBIA PUBLIC SCHOOLS
COLUMBIA, MISSOURI

Prepared by:

GEOTECHNOLOGY, LLC, DBA UES St. Louis, Missouri

Date:

DECEMBER 18, 2024

Project No.:

J044517.01







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

December 18, 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

Roseta Avenue Learning Center 1100 South Roseta Avenue

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 Roseta Avenue Learning Center, located southeast of the intersection of East Broadway and South Roseta Avenue 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 20 and 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
RAC-06 / Room 8 Sink	35.4 ppb
RAC-07 / Room 8 Bubbler	12.5 ppb
RAC-08 / Room 9T Sink	18.4 ppb
RAC-09 / Room 2 Sink	6.7 ppb
RAC-11 / Room 12RB Left Center Sink	8.4 ppb
RAC-12 / Room 12RB Right Center Sink	19.4 ppb
RAC-13 / Room 12RB Right Sink	7.9 ppb
RAC-14 / Room 12RG Left Sink	26.6 ppb
RAC-15 / Room 12RG Left Center Sink	7.8 ppb
RAC-16 / Room 12RG Right Center Sink	23.8 ppb
RAC-17 / Room 12RG Right Sink	6.5 ppb
RAC-18 / Room 4 Sink	8.5 ppb
RAC-20 / Room 3 Sink	12.2 ppb
RAC-21 / Room 3 Bubbler	15.4 ppb
RAC-23 / Room 5 Bubbler	14.1 ppb
RAC-25 / Room 6 Bubbler	5.3 ppb



UES personnel returned to the site on June 25 and 26, 2024, to resample the sink located within Room 9T (RAC-08-2). Laboratory analysis detected the presence of lead at or above 5 ppb in the following sample.

TABLE 2
RESAMPLED DRINKING WATER OUTLETS AT OR ABOVE 5 PARTS PER BILLION

Sample Number / Location and Fixture Type	Results
RAC-08-2 / Room 9T Sink	13.2 ppb

UES personnel returned to the site on September 19, 2024, to resample the sink located within Room 9T (RAC-08-3). Laboratory analysis of the submitted sample did not detect the presence of lead at or above 5 ppb.

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

RECOMMENDATIONS

Our recommendations are summarized below:

 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 Sampling 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.

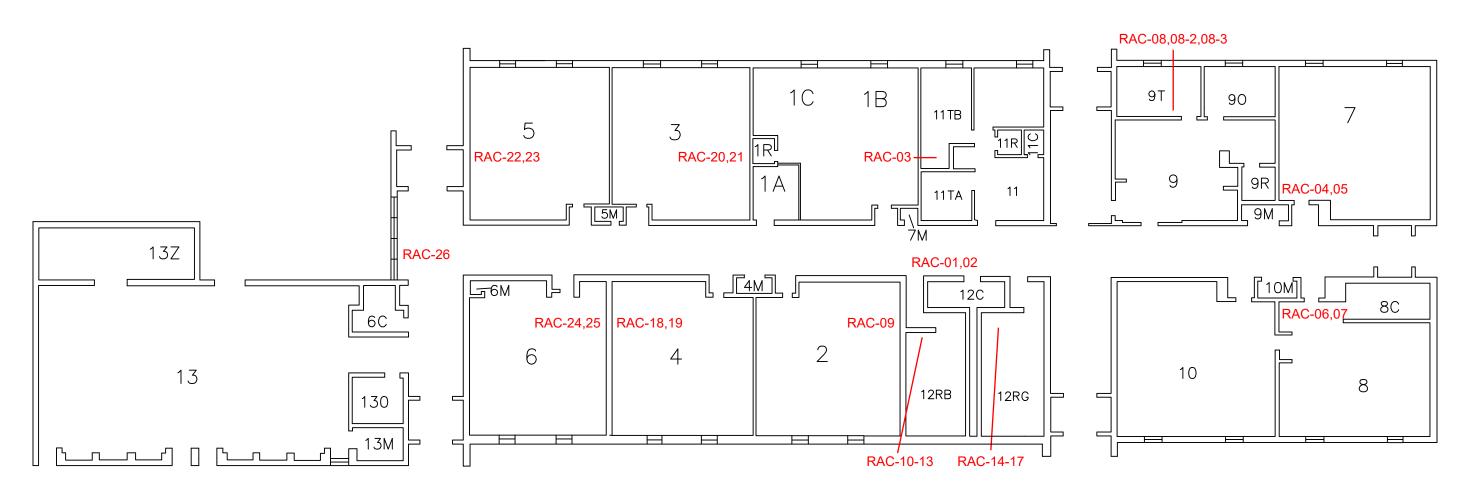
Very truly yours,

UES

Bradley J. Lohrum Project Manager

BJL/MSR:bjl/jsj





NOTES

- 1. Drawing not to scale.
- 2. Drawing adapted from "Roseta Floor Plan", provided by the client, dated 06/25/2021.
- 3. Sample locations were identified in the field relative to building features and are approximate only.

Drawn By: BJL	Ck'd By: BJL	App'vd By: MSR
Date: 12-19-24	Date: 12-19-24	Date: 12-19-24
	UES	тм

1100 South Roseta Avenue Columbia, Missouri

DRINKING WATER SAMPLE LOCATIONS

Project Number J044517.01

FIGURE 1



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: Roseta Avenue Learning Center

Project Number: J044517.01

Address: 1100 South Roseta Avenue

Columbia, Missouri

Sample ID	Fixture Type	Location	Flushed By - Date - Time	Sampled By - Date - Time
RAC-01	BF	Main Hallway	RJH - 12/20/23 - 18:29	RJH - 12/21/23 - 8:06
RAC-02	WF	Main Hallway	RJH - 12/20/23 - 18:29	RJH - 12/21/23 - 8:06
RAC-03	S	Room 11TB	RJH - 12/20/23 - 18:36	RJH - 12/21/23 - 8:09
RAC-04	S	Room 7	RJH - 12/20/23 - 18:38	RJH - 12/21/23 - 8:15
RAC-05	В	Room 7	RJH - 12/20/23 - 18:38	RJH - 12/21/23 - 8:15
RAC-06	S	Room 8	RJH - 12/20/23 - 18:40	RJH - 12/21/23 - 8:11
RAC-07	В	Room 8	RJH - 12/20/23 - 18:40	RJH - 12/21/23 - 8:11
RAC-08	S	Room 9T	RJH - 12/20/23 - 18:46	RJH - 12/21/23 - 8:17
RAC-09	S	Room 2	RJH - 12/20/23 - 18:50	RJH - 12/21/23 - 8:19
RAC-10	S	Room 12RB - Left	RJH - 12/20/23 - 18:51	RJH - 12/21/23 - 8:20
RAC-11	S	Room 12RB - Left Center	RJH - 12/20/23 - 18:51	RJH - 12/21/23 - 8:20
RAC-12	S	Room 12RB - Right Center	RJH - 12/20/23 - 18:51	RJH - 12/21/23 - 8:21
RAC-13	S	Room 12RB - Right	RJH - 12/20/23 - 18:51	RJH - 12/21/23 - 8:21
RAC-14	S	Room 12RG - Left	RJH - 12/20/23 - 18:52	RJH - 12/21/23 - 8:21
RAC-15	S	Room 12RG - Left Center	RJH - 12/20/23 - 18:52	RJH - 12/21/23 - 8:22
RAC-16	S	Room 12RG - Right Center	RJH - 12/20/23 - 18:52	RJH - 12/21/23 - 8:22
RAC-17	S	Room 12RG - Right	RJH - 12/20/23 - 18:52	RJH - 12/21/23 - 8:22
RAC-18	S	Room 4	RJH - 12/20/23 - 18:56	RJH - 12/21/23 - 8:25
RAC-19	В	Room 4	RJH - 12/20/23 - 18:56	RJH - 12/21/23 - 8:25
RAC-20	S	Room 3	RJH - 12/20/23 - 18:57	RJH - 12/21/23 - 8:30
RAC-21	В	Room 3	RJH - 12/20/23 - 18:57	RJH - 12/21/23 - 8:30
RAC-22	S	Room 5	RJH - 12/20/23 - 19:00	RJH - 12/21/23 - 8:32
RAC-23	В	Room 5	RJH - 12/20/23 - 19:00	RJH - 12/21/23 - 8:32
RAC-24	S	Room 6	RJH - 12/20/23 - 19:01	RJH - 12/21/23 - 8:33
RAC-25	В	Room 6	RJH - 12/20/23 - 19:01	RJH - 12/21/23 - 8:33

BF=Bottle Filling
B=Bubbler

FW=Filtered Water ICE=Ice Machine

S=Classroom/Other Sink WF=Water Fountain



DRINKING WATER SAMPLING FORM

Project Name: Columbia Public Schools Water

Sampling and Reporting Services

Building Name: Roseta Avenue Learning Center

Project Number: J044517.01

Address: 1100 South Roseta Avenue

Columbia, Missouri

Sample ID	Fixture Type	Location	Flushed By - Date - Time	Sampled By - Date - Time
RAC-26	WF	West Hallway	RJH - 12/20/24 - 19:03	RJH - 12/20/24 - 8:34
RAC-08-2	S	Room 9T	BJL - 6/25/24 - 22:20	BJL - 6/26/24 - 6:20
RAC-08-3	S	Room 9T	CPS Staff - 9/18/24	BJL - 9/19/24 - 6:27



APPENDIX C

DRINKING WATER LABORATORY DATA SHEETS

100226

E-10374

05002

05003

9978

Illinois

Kansas

Louisiana

Louisiana

Oklahoma



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:** 23121856

Dear Brad Lohrum:

TEKLAB, INC received 50 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



Report Contents

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Work Order: 23121856

Client Project: J044517.01

Report Date: 11-Jan-24

This reporting package includes the following:

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Definitions

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Work Order: 23121856

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)



Definitions

http://www.teklabinc.com/

Client: Geotechnology, Inc. Work Order: 23121856

Client Project: J044517.01 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
- M 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: 23121856

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: 23121856

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: 23121856

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

Matrix: DRINKING WATER

Sample ID	Client Sample ID	Certification Qual	\mathbf{RL}	Result	Units	DF	Date Analyzed	Date Collected
EPA 600 4.1.4 Lead	, 200.8 R5.4, META	LS BY ICPMS (TOTAL)						
23121856-001	A PES-20	NELAP	1.0	1.5	µg/L	1	01/03/2024 2:55	12/21/2023 9:48
23121856-002	A PES-21	NELAP	1.0	1.3	µg/L	1	01/03/2024 3:00	12/21/2023 9:48
23121856-003	A PES-22	NELAP	1.0	202	µg/L	5	12/29/2023 18:08	12/21/2023 9:50
23121856-004	A PES-23	NELAP	1.0	1.3	µg/L	5	12/29/2023 18:13	12/21/2023 9:52
23121856-005	A PES-24	NELAP	1.0	2.3	µg/L	1	01/03/2024 3:30	12/21/2023 9:53
23121856-006	A PES-25	NELAP	1.0	< 1.0	µg/L	1	01/03/2024 3:35	12/21/2023 9:53
23121856-007	A PES-26	NELAP	1.0	< 1.0	µg/L	1	01/03/2024 3:39	12/21/2023 9:54
23121856-008	A PES-27	NELAP	1.0	1.6	µg/L	1	01/03/2024 3:44	12/21/2023 9:55
23121856-009	A PES-28	NELAP	1.0	< 1.0	µg/L	1	01/03/2024 3:48	12/21/2023 9:56
23121856-010	A PES-29	NELAP	1.0	< 1.0	µg/L	1	01/03/2024 3:52	12/21/2023 9:57
23121856-011	A PES-30	NELAP	1.0	< 1.0	µg/L	1	01/03/2024 4:58	12/21/2023 9:57
23121856-012	A PES-31	NELAP	1.0	< 1.0	µg/L	1	01/03/2024 3:57	12/21/2023 9:58
23121856-013	A PES-32	NELAP	1.0	< 1.0	µg/L	1	01/03/2024 4:27	12/21/2023 9:59
23121856-014	A PES-33	NELAP	1.0	< 1.0	µg/L	1	01/03/2024 4:32	12/21/2023 10:00
23121856-015	A PES-34	NELAP	1.0	< 1.0	µg/L	1	01/03/2024 5:24	12/21/2023 10:01
23121856-016	A PES-35	NELAP	1.0	< 1.0	µg/L	1	01/03/2024 4:36	12/21/2023 10:03
23121856-017	A PES-36	NELAP	1.0	< 1.0	µg/L	1	01/03/2024 4:40	12/21/2023 10:04
23121856-018	A PES-37	NELAP	1.0	< 1.0	µg/L	1	01/03/2024 4:45	12/21/2023 10:05
23121856-019	A PES-38	NELAP	1.0	< 1.0	µg/L	1	01/03/2024 4:49	12/21/2023 10:06
23121856-020	A PES-39	NELAP	1.0	< 1.0	µg/L	1	01/03/2024 4:53	12/21/2023 10:06
23121856-021	A PES-40	NELAP	1.0	< 1.0	µg/L	5	01/02/2024 13:53	12/21/2023 10:07
23121856-022	A PES-41	NELAP	1.0	1.8	µg/L	1	01/05/2024 15:24	12/21/2023 10:08
23121856-023	A PES-42	NELAP	1.0	< 1.0	µg/L	1	01/05/2024 15:28	12/21/2023 10:09
23121856-024	A PES-43	NELAP	1.0	6.3	µg/L	1	01/05/2024 15:31	12/21/2023 10:10
23121856-025	A PES-44	NELAP	1.0	4.9	µg/L	1	01/08/2024 18:07	12/21/2023 10:11
23121856-026	A PES-45	NELAP	1.0	< 1.0	µg/L	1	01/08/2024 18:11	12/21/2023 10:12
23121856-027	A PES-46	NELAP	1.0	18.3	µg/L	1	01/05/2024 15:42	12/21/2023 10:12
23121856-028	A PES-47	NELAP	1.0	5.9	µg/L	1	01/05/2024 15:46	12/21/2023 10:13
23121856-029	A RAC-01	NELAP	1.0	1.5	μg/L	1	01/09/2024 19:11	12/21/2023 8:06
23121856-030	A RAC-02	NELAP	1.0	1.4	μg/L	1	01/08/2024 18:26	12/21/2023 8:06
23121856-031	A RAC-03	NELAP	1.0	1.1	μg/L	1	01/08/2024 18:29	12/21/2023 8:09
23121856-032	A RAC-04	NELAP	1.0	3.2	μg/L	1	01/08/2024 18:33	12/21/2023 8:15
23121856-033	A RAC-05	NELAP	1.0	4.9	μg/L	1	01/08/2024 18:37	12/21/2023 8:15
23121856-034	A RAC-06	NELAP	1.0	35.4	μg/L	1	01/09/2024 19:44	12/21/2023 8:11
23121856-035	A RAC-07	NELAP	1.0	12.5	μg/L	1	01/09/2024 19:48	12/21/2023 8:11
23121856-036	A RAC-08	NELAP	1.0	18.4	μg/L	1	01/09/2024 20:13	12/21/2023 8:17
23121856-037	A RAC-09	NELAP	1.0	6.7	μg/L	1	01/09/2024 19:53	12/21/2023 8:19
23121856-038	A RAC-10	NELAP	1.0	4.2	μg/L	1	01/09/2024 19:57	12/21/2023 8:20
23121856-039	A RAC-11	NELAP	1.0	8.4	μg/L	1	01/09/2024 20:01	12/21/2023 8:20
23121856-040	A RAC-12	NELAP	1.0	19.4	μg/L	1	01/09/2024 20:05	12/21/2023 8:21
23121856-041	A RAC-13	NELAP	1.0	7.9	μg/L	1	01/04/2024 1:00	12/21/2023 8:21
23121856-042	A RAC-14	NELAP	1.0	26.6	μg/L	1	01/04/2024 1:04	12/21/2023 8:21
23121856-043		NELAP	1.0	7.8	μg/L	1	01/04/2024 1:08	12/21/2023 8:22
23121856-044		NELAP	1.0	23.8	μg/L	1	01/04/2024 1:13	12/21/2023 8:22
23121856-045		NELAP	1.0	6.5	µg/L	1	01/04/2024 16:50	12/21/2023 8:22
23121856-046		NELAP	1.0	8.5	µg/L	1	01/04/2024 1:17	12/21/2023 8:25
23121856-047		NELAP	1.0	1.7	μg/L	1	01/04/2024 1:21	12/21/2023 8:25
23121856-048		NELAP	1.0	12.2	µg/L	1	01/04/2024 17:20	12/21/2023 8:30



Laboratory Results

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Work Order: 23121856

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
	4, 200.8 R5.4, META	LS BY ICPMS (TOTAL)					
Lead								
23121856-049	A RAC-21	NELAP	1.0	15.4	μg/L	1	01/04/2024 17:25	12/21/2023 8:30
23121856-050	A RAC-22	NELAP	1.0	4.4	μg/L	1	01/04/2024 17:29	12/21/2023 8:32



Receiving Check List

http://www.teklabinc.com/

Work Order: 23121856 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? **✓** 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 9:19:38 AM

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

pg. |3 of Z| Work order # 23121856

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

Client:	Geotechnology, Ll	LC		Samples on: I ICE BLUE ICE NO ICE NO C LTG#										
Address:	11816 Lackland R	oad		Preserved in: 🖫 LAB	FIELD " "	FOR LAB USE ONLY								
City / State	/ Zip St. Louis, MO 631	146		Lab Notes										
Contact:	Brad Lohrum	Phone:	(314) 997-7440											
E-Mail:	blohrum@teamues.com	Fax:		Client Comments:										
Are these camples	known to be involved in life	igation? If yes, a surcharge wil	li apply ☐ Yes 🐔 No											
	s known to be hazardous?													
Are there any requ	iired reporting limits to be n ent section.	net on the requested analysis?	P. If yes, please provide											
			-tl- Nama	MATRIX	INDICATE	NALYSIS REQUESTED								
	Name/Number	Sample Colle	3		INDICATEA	NAC 1313 REGULSTED								
J04451		Brad Lohr		Spa Gra										
Result	s Requested 1-2 Day (100% Surcharge)	Dining manacavira	# and Type of Containers	oun Slu Skin										
	3 Day (50% Surcharge)	ļ	OTHER NaHSO4 MeOH HCL H2SO4 NaOH HNO3	DW - Lead E200.8 Groundwater Special Waste Sludge Soil Drinking Water Aqueous										
				200. iter iste										
Lab Use Only	Sample Identification	Date/Time Sampled												
7001	PES-20	12/21/23 9:48												
002	PES-Z													
003	1 22	9:50		X										
004	2.3	9:52		X										
005	24	9:53												
006	25	4-19		XXX										
(X)	26	9:541		X										
008	27	9:55 1		XX										
009	28	9:561		X										
1 010	29	- 9:57		X										
7 UU	Relinguished By		Date/Time	Receive	d By	Date/Time								
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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:



pg. 14 of 21 Work order # 23121854

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

Client:	Geotechnology, L	LC				San	nples	s on		ICE	BLUE ICE	MO I	CE		°c	LTC	*	
Address:	11816 Lackland F	Road				_ 8	Preserved in: LAB FIELD FOR LAB USE ONLY											
City / State	St. Louis, MO 63	146		***************************************		- Lab	Not	es										
Contact:	Brad Lohrum	Phone	(31	4) 997-	7440													
E-Mail:	blohrum@teamues.com	Fax:				- Clier	nt Co	mm	ent	s;								
Are these sample Are there any requirements in the comm	s known to be hazardous? uired reporting limits to be lent section. Yes	met on the requested analysi	s?. If yes,	please														
Project	Name/Number	Sample Col			е	N	IAT	RIX			IND	CATE	ANALY	SIS R	EQUES	JED -		-
J0445	17.03	Brad Loh		N		J □ □		ည်	ବ୍ର	DW								
Result	s Requested 1-2 Day (100% Surcharge)	Billing Instructions	3	ype of	Containers		S	ecia	l S	Lea								
Other	3 Day (50% Surcharge)		HNO3 UNPRES	H2SO	Containers NaHSO4 HCL	Drinking Water Aqueous	Soil	Special Waste	Groundwater	Lead E200.8								
Lab Use Only	Sample Identification	Date/Time Sampled	ES 3	4	¥ ×	वि		rē	"	0.8								
23121856	PES-30	12/21/23 9:57)			X				X							<u></u>	
019	PES- 31	9:58)			X				X								
013	1 32	9:59	1			X				X								
014	33	10:00	l			X				X								
015	34	10:01	l			X				X								
016	35	10:03				X				X								
017	3.0	10:04	ſ			X				X								
018	37	10:05				X				X								
019	38)o:0b	1			X				X								
090	- 39	1-				X				X								
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BottleOrder:



pg. 15 of 21 Work order # 23/218/50

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

Oliman	Geotechnology, L	LC					San	ples	s on:		CE	BLUE	ICE [NO!	ICE	******		°C	ı	LTG#		
Client: Address:	11816 Lackland R											FIELD				DR L	AB U	<u>SE 0</u>	NLY	<u>′</u>		
City / State	St. Louis, MO 63	146						Note														
Contact:	Brad Lohrum		Phone:	(314) 9	97-7440																	
E-Mail:	blohrum@teamues.com		Fax:				Clie	nt Co	mm	ents												
	s known to be involved in life			anniv	Yes Z	No			/316127	CIICO	•											
	s known to be involved in its s known to be hazardous?		archarge wiir	арргу																		
Are there any requ	ired reporting limits to be r	net on the requester	ed analysis?.	If yes, ple	ease provide																	
	ent section. Yes	•	ple Collec	tor's N	2000			ATF) IY	_			INDIC	ΔTF	ΔΝΔ	YSIS	S RE	QUE:	STE			
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J0445		Brad l			- 6 O A - 2-		Drin ,		Spe	ရှ	DW.											
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Lab Use Only	Sample Identification	Date/Time Sa	mpled	3 ¥ !	בַּן <u>ב</u> ן ד	罗	ater		ste	er	E200.8											
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BottleOrder:



CHAIN OF CUSTODY pg.)6 of 2) Work order # 23121850

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

									-	_					_			_
Client:	Geotechnology, L	LC								•		•					BLUE ICE NO ICE C LTG#	_
Address:	11816 Lackland F	Road								Pr	res	erv	ed i	n:	30	LAB	FIELD FOR LAB USE ONLY	
City / State	/ Zip St. Louis, MO 63	146								La	ab	Not	es					
Contact:	Brad Lohrum	Phone) :	(31	4) 9	997-7	440											
E-Mail:	blohrum@teamues.com	Fax:		_						Cli	en.	t Cr	omr	ne	nte			_
A *b	- turn con to be investigation to	55-0 H		1				× .	1	- ```	CII		J3131	: ,-	III	•		
	s known to be involved in in s known to be hazardous?	tigation? If yes, a surcharge	wiii a	рріу		L. 16	:5		NO									
Are there any requ limits in the comm	ired reporting limits to be r	net on the requested analysi	s?. If	f yes	, ple	ease p	orovid	e										
		*							_	<u></u>			207				NOTICE ANALYSIS PERIODER	_
	Name/Number	Sample Col				ame			ŀ		_	ATI	KIX		4		INDICATE ANALYSIS REQUESTED	
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BottleOrder. 80481

pg. 17 of 21 Work order # 23/2/850

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

		·																												
Client:		Geotechnology, Ll	.c																■ BLI			NO IC				_	С		#	
Address:		11816 Lackland R	oad										Pre	sei	ve	d in	: 🎇	LAB	™ FIE	LD			FC	<u> DR L</u>	AB	USE	ON	<u>.Y</u>		
City / State	/ Zip	St. Louis, MO 631	46										Lal	b Ne	ote	\$														
Contact:	Brad L	ohrum		Phone);	(;	314)	997-	744	0		.																		
E-Mail:	blohrur	n@teamues.com		Fax:								.	Clie	nt (Cor	nm	ent	s:												
Are these sample	s known	to be involved in lit	ination? If ve	s a surcharge	will	ann	v	П	Yes	X	No																			
Are these sample:	s known	to be hazardous?	Yes 2	⊈ No	••••		.,			,_																				
	ired rep	orting limits to be n			s?.	If ye	s, p	lease	pro	vide		ı																		
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Result	s Requ	uested	Billing In	structions	#	and	Ту	pe of	Co	ntain	ers	₽		S	SE SE	ecia	Groundwater	- Le												
<i></i>		y (50% Surcharge)						표.	_	NaHSO4	្ន	Aqueous	٩	<u>o.</u>	idge	8	ğ	Lead E200.8												
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BottleOrder: 80481

100226

E-10374

05002

05003

9978

Illinois

Kansas

Louisiana

Louisiana

Oklahoma



January 09, 2024

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

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

RE: J044517.01 **WorkOrder:** 23121857

Dear Brad Lohrum:

TEKLAB, INC received 35 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



Report Contents

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Work Order: 23121857

Client Project: J044517.01

Report Date: 09-Jan-24

This reporting package includes the following:

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	5
Accreditations	6
Laboratory Results	7
Receiving Check List	8
Chain of Custody	Appended



Definitions

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Work Order: 23121857

Client Project: J044517.01 Report Date: 09-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. Work Order: 23121857

Client Project: J044517.01 Report Date: 09-Jan-24

- 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

Qualifiers

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: 23121857

Report Date: 09-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: 23121857

Client Project: J044517.01 Report Date: 09-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: 23121857

Client Project: J044517.01 Report Date: 09-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,	200.8 R5.4, META	LS BY ICPMS (TOTAL)						
Lead								
23121857-001A	RAC-23	NELAP	1.0	14.1	μg/L	1	01/05/2024 9:38	12/21/2023 8:32
23121857-002A	RAC-24	NELAP	1.0	4.6	μg/L	1	01/05/2024 10:07	12/21/2023 8:33
23121857-003A	RAC-25	NELAP	1.0	5.3	μg/L	1	01/05/2024 10:12	12/21/2023 8:33
23121857-004A	RAC-26	NELAP	1.0	2.5	μg/L	1	01/05/2024 10:16	12/21/2023 8:34
23121857-005A	WMS-01	NELAP	1.0	< 1.0	µg/L	1	01/05/2024 10:20	12/22/2023 2:06
23121857-006A	WMS-02	NELAP	1.0	1.5	µg/L	1	01/05/2024 17:07	12/22/2023 2:07
23121857-007A	WMS-03	NELAP	1.0	1.9	μg/L	1	01/05/2024 10:24	12/22/2023 2:08
23121857-008A	WMS-04	NELAP	1.0	1.3	µg/L	1	01/05/2024 10:28	12/22/2023 2:09
23121857-009A	WMS-05	NELAP	1.0	1.3	µg/L	1	01/05/2024 10:33	12/22/2023 2:09
23121857-010A	WMS-06	NELAP	1.0	12.9	µg/L	1	01/05/2024 10:37	12/22/2023 2:11
23121857-011A	WMS-07	NELAP	1.0	< 1.0	µg/L	1	01/05/2024 10:41	12/22/2023 2:13
23121857-012A	WMS-08	NELAP	1.0	< 1.0	μg/L	1	01/05/2024 10:58	12/22/2023 2:13
23121857-013A	WMS-09	NELAP	1.0	1.2	μg/L	1	01/05/2024 11:02	12/22/2023 2:15
23121857-014A	WMS-10	NELAP	1.0	< 1.0	µg/L	1	01/05/2024 11:06	12/22/2023 2:15
23121857-015A	WMS-11	NELAP	1.0	< 1.0	µg/L	1	01/05/2024 11:11	12/22/2023 2:17
23121857-016A	WMS-12	NELAP	1.0	< 1.0	µg/L	1	01/05/2024 11:15	12/22/2023 2:17
23121857-017A	WMS-13	NELAP	5.0	< 5.0	µg/L	10	01/05/2024 15:35	12/22/2023 2:18
23121857-018A	WMS-14	NELAP	5.0	< 5.0	µg/L	10	01/09/2024 8:37	12/22/2023 2:18
23121857-019A	WMS-15	NELAP	1.0	< 1.0	µg/L	1	01/04/2024 19:46	12/22/2023 2:20
23121857-020A	WMS-16	NELAP	1.0	1.1	µg/L	1	01/05/2024 11:19	12/22/2023 2:22
23121857-021A	WMS-17	NELAP	1.0	< 1.0	µg/L	1	01/05/2024 11:23	12/22/2023 2:23
23121857-022A	WMS-18	NELAP	1.0	< 1.0	µg/L	1	01/05/2024 11:27	12/22/2023 2:25
23121857-023A	WMS-19	NELAP	1.0	< 1.0	µg/L	1	01/05/2024 11:32	12/22/2023 2:26
23121857-024A	WMS-20	NELAP	1.0	< 1.0	µg/L	1	01/03/2024 10:21	12/22/2023 2:26
23121857-025A	WMS-21	NELAP	1.0	2.4	µg/L	5	01/02/2024 13:56	12/22/2023 2:30
23121857-026A	WMS-22	NELAP	1.0	4.0	µg/L	5	01/02/2024 14:00	12/22/2023 2:30
23121857-027A	WMS-23	NELAP	1.0	4.3	µg/L	5	01/02/2024 14:04	12/22/2023 2:30
23121857-028A	WMS-24	NELAP	1.0	1.2	µg/L	5	01/02/2024 14:07	12/22/2023 2:30
23121857-029A	WMS-25	NELAP	1.0	4.5	µg/L	5	01/02/2024 14:11	12/22/2023 2:30
23121857-030A	WMS-26	NELAP	2.0	4.2	µg/L	10	01/09/2024 9:03	12/22/2023 2:30
23121857-031A	WMS-27	NELAP	1.0	12.6	µg/L	1	01/03/2024 10:25	12/22/2023 2:34
23121857-032A	WMS-28	NELAP	1.0	1.3	µg/L	1	01/03/2024 10:45	12/22/2023 2:35
23121857-033A	WMS-29	NELAP	1.0	1.4	µg/L	1	01/03/2024 10:29	12/22/2023 2:35
23121857-034A	WMS-30	NELAP	1.0	4.7	µg/L	1	01/03/2024 10:33	12/22/2023 2:39
23121857-035A	WMS-31	NELAP	1.0	3.5	µg/L	1	01/03/2024 10:37	12/22/2023 2:43

Dilution required to meet internal standard recovery criteria.

Dilution required to meet internal standard recovery criteria.



Receiving Check List

http://www.teklabinc.com/

Work Order: 23121857 Client: Geotechnology, Inc. Client Project: J044517.01 Report Date: 09-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 9:05:48 AM

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

CHAIN OF CUSTODY pg. 18 of Z) Work order # 23121857

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

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Client:	Geotec	hnology, LL	С						_			Sar	nple	es c	n:		ICE	■ BI	UE IC	EX	NO	CE	1	NA	°C	3	LTG#	ŧ	
Address:	11816	Lackland Ro	ad								_	Pre	ser	/ed	in		LAB	■ FI	ELD	′		<u>F</u>	<u>OR L</u>	AB I	<u>USE</u>	ONL'	<u>Y</u>		
City / State	/ Zip St. Lou	is, MO 631	46								_ [Lab	No	tes															
Contact:	Brad Lohrum		·····	Phone	: :	(3	14) §	97-74	140		_																		
E-Mail:	blohrum@team	ues.com	•	Fax:		_					- [Clie	nt C	om	me	ents	»:												
Are these samples Are these samples Are there any requ limits in the comm	s known to be ha iired reporting lin	izardous? nits to be m	Yes K	No				☐ Ye			0																		
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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:

CHAIN OF CUSTODY

pg. 19 of 21 Work order # 23121851

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

*	-																				
Client:	Geotechnology, i	LC						_					BLUE K	E 📓		_		°C	LTG	¥	
Address:	11816 Lackland I	Road					_ P	rese	erve	d in): 🗐	LAB	FIELD		<u> 1</u>	FOR L	AB U	SE ON	<u>LY</u>		
City / State	/ Zip St. Louis, MO 63	3146					_ L	ab l	Note	s											
Contact:	Brad Lohrum		Phone:	(314)	997-74	140	_ [
E-Mail:	blohrum@teamues.com		Fax:				- CI	ient	Co	mm	ents	s:									
Are these sample	s known to be involved in I	itigation? If yes, a su	urcharge will	apply	☐ Ye	s XN	•														
Are these sample	s known to be hazardous?	Yes No																			
Are there any requirements in the comm	uired reporting limits to be nent section. 🏻 Yes 🧏	met on the requeste ₵No	ed analysis?.	lf yes, pl	lease p	rovide															
****	Name/Number		ple Collec	tor's N	lame		┰┖╌	M	ATR	ΙX				NDICA	TE AN	ALYSI	S REC	QUEST	ED		
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Standard	s Requested 1-2 Day (100% Surcharge)	Billing Instruc	ctions			7	T C		Sludge	Cia	튎	Lead									
Other	3 Day (50% Surcharge)		Ž	H Na	HCI H2SC	Meo	suo	Drinking Water	- Ge	Special Waste	Groundwater	£200.8									
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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



CHAIN OF CUSTODY

pg. 20 of 2 | Work order # 13:21857

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

Client:	Geotechnology, L	rc							Sa	mp	es	on:	8	ICE	BLUE ICE	NO IC	E		_ (°C	LTG	#	
Address:	11816 Lackland R	oad							Pre	ese	rve	ni b	: 🗵	LAB	FIELD		<u>FOF</u>	LAE	3 USE	<u> E ON</u>	<u>LY</u>		
City / State	/ Zip St. Louis, MO 63	146							La	b N	ote	5											
	Brad Lohrum	Phone	: !	(314)	997	7440																	
E-Mail:	blohrum@teamues.com	Fax:	_						Clie	nt	Con	nme	ent	s:									
Are these samples Are there any requ	s known to be hazardous?	net on the requested analysi No	s?. If y	es, p	leas		-	No															
Project I	Name/Number	Sample Col	lecto	r's l	Nam	e		L		MA	TRI	X			INDIC	ATE A	NAL	/SIS I	REQU	JEST	ED		
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_	3 Day (50% Surcharge)		UNPRES	NaOt	H2SO4	HCL MeOH	NaHSC	e OTHER	Drinking Water Agueous	Soil	Sludge	Special Waste	Groundwater	ad E200.8									
Lab Use Only	Sample Identification	Date/Time Sampled	ES		4		4		e		<u> </u>	æ	٦	0.8					<u> </u>	Ц_	<u></u>		
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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



CHAIN OF CUSTODY

pg. 2 of 2 Work order # 73121851

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

Client:	Geotechnology, l	_LC		Samples on: 📓 ICE	BLUE ICE MO ICE	°C LTG#
Address:	11816 Lackland	Road		Preserved in: 🖾 LAB	I FIELD E	FOR LAB USE ONLY
City / State	/ Zip St. Louis, MO 63	3146		Lab Notes		
Contact:	Brad Lohrum	Phone	(314) 997-7440			
E-Mail:	blohrum@teamues.com	Fax:		Client Comments:		
Are these sample Are there any requ	s known to be hazardous?	met on the requested analysi	,			
Project	Name/Number	Sample Col	lector's Name	MATRIX	INDICATE ANA	ALYSIS REQUESTED
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	s Requested 1-2 Day (100% Surcharge)	Billing Instructions		rou Slinkii		
Standard Other	1-2 Day (100% Surcharge) 3 Day (50% Surcharge)		OTHER NaHSO4 MeOH HCL H2SO4 NaOH HNO3	DW - Lead E200.8 Groundwater Special Waste Sludge Soil Drinking Water Aqueous		
Lab Use Only	Sample Identification	Date/Time Sampled		0.8		
1312188)	WMS -27	12/22/23 2.34		X		
032	WMS-28	2:35	0.000	X		
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034	30	2:39	Č.,	XXX		
035	31	2:43		XX		
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:						
	Relinquished By		Date/Time	// Receive	d By	Date/Time
Brod	leg Su	12/20	2/23 1/0:20	full de la company de la compa		12/22/23 1620

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



100226

E-10374

05002

05003

9978

1004652024-2

Illinois

Illinois

Kansas

Louisiana

Louisiana

Oklahoma



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 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: 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	RL	Result	Units	DF	Date Analyzed	Date Collected
EPA 600 4.1.4 Lead	4, 200.8 R5.4, META	ALS BY ICPMS (TOTAL)						
24062353-001	IA 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	SA SMS-61-2	NELAP	1.0	6.9	μg/L	1	07/03/2024 17:37	06/26/2024 15:14
24062353-007	7A 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	9A 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	IA 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	3A 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
24062353-031		NELAP	1.0	< 1.0	µg/L	1	07/03/2024 20:04	06/26/2024 19:07
24062353-032		NELAP	1.0	6.4	µg/L	1	07/03/2024 20:10	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
24062353-034		NELAP	1.0	< 1.0	μg/L	1	07/05/2024 20:15	06/26/2024 19:55
24062353-036		NELAP	1.0	< 1.0		1	07/03/2024 12:33	06/26/2024 19:56
24062353-036			1.0		μg/L			
24062353-037		NELAP		1.1	µg/L	1	07/03/2024 20:45	06/26/2024 19:57
24062353-036		NELAP	1.0	< 1.0	µg/L	1	07/03/2024 20:48	06/26/2024 20:00
		NELAP	1.0	< 1.0	µg/L	1	07/03/2024 20:52	06/26/2024 20:07
24062353-040		NELAP	1.0	< 1.0	µg/L	1	07/03/2024 20:56	06/26/2024 20:10
24062353-041		NELAP	1.0	< 1.0	µg/L	1	07/03/2024 20:59	06/26/2024 20:10
24062353-042		NELAP	1.0	< 1.0	µg/L	1	07/05/2024 12:46	06/26/2024 20:11
24062353-043		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, 200.8 R5.4, META	LS BY ICPMS (TOTAL)						
Lead								
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	BA 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	6A 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. of Work order # 24062353 TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005

Contact: E-Mail: Are these samples Are these samples Are there any requ	known to be hazardous?	Phone Fax: tigation? If yes, a surcharge Yes No met on the requested analys	will appl		Yes D	No	Pi Li Cii	res ab	erve Note	ed ir	n: 🗵	LAB	BLUEICE MOICE NA °C LTG# B FIELD FOR LAB USE ONLY COUNTER
	ent section.	No Sample Co	lector'	s Nan	ne			M	ATF	RIX			INDICATE ANALYSIS REQUESTED
Results	4517.01 s Requested	Brad Le			f Contai	ners	Ag	Drinki	ي	Speci	Grou	DW - L	
Standard [1-2 Day (100% Surcharge) 3 Day (50% Surcharge)		HNO3 UNPRES	H2SO NaOI	MeOH	OTHER	Aqueous	Drinking Water	Soil	Special Waste	Groundwater	Lead E200.8	
Lab Use Only	Sample Identification	Date/Time Sampled	ιχ, ω ω	4 4	+ ;	2 7	1	7		िं	"	0.8	
246 (333-10i	SMS-01-Z	6/26/24 307	1					X				X	
-005	02-2	3:08	1					X				X	
-003	58-2	3:11	1					XI		1		X	
034	59-2	3:12	1					X				X	
-005	60-2	3:13	1					XI.				X	
-004	61-2	3:14	1					X				X	
~007	62-2	3:15	1					X]				X	
004	1-74-2	3:18	1					X.				X	
009	PKE-66-2	3:52	1					X				X	
-010	PKE-67-2	1 + 3:52	1					X				×	
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CHAIN OF CUSTODY pg. 2 of 6 Work order # 24062573

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

														_							-					
Client:	Geotechnology, L	LC							. 2						ICE		E	M NC					,C	LTG	#	
Address:	11816 Lackland R	oad								Pre	sei	ve	d in	: 🖾	LAB	FIELD]	OR	LAB	USE	ON	<u>_Y</u>		
City / State		146							. [Lai	ο N	ote	s													
Contact:	Brad Lohrum	Phone	9:	(314	4) 99	7-744	40		- [
E-Mail:	blohrum@teamues.com	Fax:							- [Clie	nt (Cor	nm	ent	s:	·			A A Paris - A Paris	<i>(4, 2 - 114, 12, 4, 5)</i>		***************************************	· · · · · · · · · · · · · · · · · · ·		Marie Marie	
Are these sample	s known to be involved in lift	igation? If yes, a surcharge	will a	pply		Yes	· [2	No																		
•	s known to be hazardous?																									
Are there any require any require in the community in the	uired reporting limits to be need to be not section.	net on the requested analys No	is?. If	yes,	plea	se pr	ovide	9																		
	Name/Number	Sample Co	lect	or's	Nar	ne	_		┰┸		MΑ	TRI	X				IDIO	ATE	AN	ALYS	SIS R	EQL	JEST	ED		
-	44517.01	Brad Lo				•••			 	Т		T	T	Γ	o.		T	T			T	T				T
	s Requested			nd T	vne (of Co	mtai	ners	┦ ⊳	rin			Spe	Gro	DW-											
Standard	1-2 Day (100% Surcharge)	Billing Instructions		Т		1	1		Aqueous	king	Soil	Slud		bun	Lead											
Other	3 Day (50% Surcharge)		UNPRES	HNO3	H2S04	표	MeOH	OTHER	suo	Drinking Water	=	ge	Special Waste	Groundwater	HE2											
Lab Use Only	Sample Identification	Date/Time Sampled	ES	ŭĮΙ	4		<u> </u>	2 7		ter			ie .	약	E200.8											
14062553-011	PKE-70-2	6/26/24 3:55	1							X					X											
-012	RBE-68-2	4:06	1							X					Х				79700							
-013	RBF-11-2	4:07	1							X					Х											
-014	FES-52-2	4:16	1				- Annual Control			Х					Х								- Constitution of the cons	And the second second		
-015	BRH-82	4:33	1							X					Х											
-3/6	RRH - 83	4:36	1							X	1				Х											
	MCE -09-2	4:51	1				1			X					Х											
-014	MOE / 87	4:54	1							X					X											
-619	MCF- 88	1	1	_						X					X											
-027	RBH-30-Z	5.17	1				_			X					X											
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CHAIN OF CUSTODY pg. S of Work order # 29062353

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

Client:	Geotechnology, Ll	LC .							. 4		-								M	NO					°С		LTG#	#		
Address:	11816 Lackland R	oad								Pres	ser	vec	l in:	: 🖾	LAB		FIEL	כ			E	OR	LAB	US	E O	NL.	<u>Y</u>			
City / State	/ Zip St. Louis, MO 63	146								Lab	No	tes	,																	
Contact:	Brad Lohrum	Phone	:	(31	4) 99	7-74	40		. Ì																					
E-Mail:	blohrum@teamues.com	Fax:							- C	lier	nt C	on	ıme	ents	s:					,										
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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



CHAIN OF CUSTODY pg. 4 of 6 Work order # 24062353

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

Client:	Geol	technology, L	LC									S	am	oles	or): [∭ IC	Ε	B	UE I	CE	I	NO I	CE				°C	LTC	#	-
Address:	1181	16 Lackland F	Road								_ [Pi	res	erv	ed i	ր։ [ا 🏻	₹B	∭ FI	ELD				F	OR I	_AB	<u>USE</u>	<u>ON</u>	<u>LY</u>		1
City / State	/ Zip St. L	ouis, MO 63	146								_	Lá	ab l	Vot	es																·
Contact:	Brad Lohrum)		Phone	∋ :	(31	4) 9	97-7	440		_																				
E-Mail:	blohrum@tea	amues.com		Fax:		_					_	Cli	ien	Co	mn	ner	ıts:						N. 1 . N. 1941		<u> </u>	527 1 50			y 1. 1.300		-
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BottleOrder:

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CHAIN OF CUSTODY pg. 5 of 6 Work order # 24062353

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

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City / State	Brad Lohrum	Phone	· ·	(31	4) 9	97-7	440																								
E-Mail:	blohrum@teamues.com	Fax:	••							-	ien	+ ^	· OP		ant							,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	102048.ES	*********	<u>19</u>	E-SHEETSHAM	4	~-0%		***************************************	a a nilisi
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CHAIN OF CUSTODY pg. 6 of 6

Work order # 2406 2353

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

Client:	Geotechnology, L	LC							S	an	npl	es	on:		ICE	BLUE	ICE	1	10 IC	E	,		°(C	LTG	#	
Address:	11816 Lackland R	Road							P	re:	ser	vec	d in	: 🐼	LAB	FIELI)			FO	RL	AB I	JSE	ONL	<u>.Y</u>		\$ \$
City / State	/ Zip St. Louis, MO 63	146							L	.ab	No	otes	5														:
Contact:	Brad Lohrum	Phone	: (314)	997-	744	0																				11
E-Mail:	blohrum@teamues.com	Fax:							CI	lier	nt C	on	nme	ents	3:		ه سبیراناه		10.0	- 24 / - 6-		2200	والمستوالين				
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Bottle Order:





September 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:** 24091622

Dear Brad Lohrum:

TEKLAB, INC received 7 samples on 9/20/2024 1:13:00 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 Illinois 1004652024-2 Kansas E-10374

05002 Louisiana Louisiana 05003 Oklahoma 9978



Report Contents

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Work Order: 24091622

Client Project: J044517.01

Report Date: 30-Sep-24

This reporting package includes the following:

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	5
Accreditations	6
Laboratory Results	7
Receiving Check List	8
Chain of Custody	Appended



Definitions

http://www.teklabinc.com/

Client: Geotechnology, Inc. Work Order: 24091622

Client Project: J044517.01 Report Date: 30-Sep-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: 24091622

Client Project: J044517.01 Report Date: 30-Sep-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: 24091622

Report Date: 30-Sep-24

Client: Geotechnology, Inc.

Cooler Receipt Temp: N/A °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: 24091622

Client Project: J044517.01 Report Date: 30-Sep-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	12/31/2024	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: 24091622

Client Project: J044517.01 Report Date: 30-Sep-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)						
24091622-001A	SMS-58-3	NELAP	1.0	13.5	μg/L	1	09/26/2024 12:20	09/19/2024 5:37
24091622-002A	SMS-60-3	NELAP	1.0	12.8	µg/L	1	09/26/2024 12:24	09/19/2024 5:39
24091622-003A	SMS-61-3	NELAP	1.0	2.7	µg/L	1	09/26/2024 12:28	09/19/2024 5:39
24091622-004A	SMS-62-3	NELAP	1.0	3.7	µg/L	1	09/26/2024 12:57	09/19/2024 5:40
24091622-005A	OMS-29-3	NELAP	1.0	15.8	µg/L	1	09/26/2024 12:32	09/19/2024 6:00
24091622-006A	EFS-01-3	NELAP	1.0	1.9	µg/L	1	09/26/2024 13:01	09/19/2024 6:13
24091622-007A	RAC-08-3	NELAP	1.0	< 1.0	μg/L	1	09/26/2024 13:05	09/19/2024 6:27



Receiving Check List

http://www.teklabinc.com/

Work Order: 24091622 Client: Geotechnology, Inc. Client Project: J044517.01 Report Date: 30-Sep-24 Carrier: John Duarte Received By: NR Completed by: moor Ollauc Reviewed by: On: On: 20-Sep-24 20-Sep-24 Amber Dilallo Ellie Hopkins Extra pages included 0 Pages to follow: Chain of custody Shipping container/cooler in good condition? Yes **V** No 🗔 Not Present Temp °C N/A 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 \square Samples in proper container/bottle? Yes **V** Sample containers intact? Yes No Sufficient sample volume for indicated test? Yes **~** No **~** No \square All samples received within holding time? Yes NA 🗸 Field Lab 🗌 Reported field parameters measured: No 🗌 Yes 🗸 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. - amberdilallo - 9/20/2024 1:42:56 PM

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

CHAIN OF CUSTODY pg. of Work order # 2409/622

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

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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.