

COLUMBIA PUBLIC SCHOOLS CEDAR RIDGE ELEMENTARY SCHOOL 2345 HOWELL MOUNTAIN DRIVE COLUMBIA, MISSOURI

Prepared for:

COLUMBIA PUBLIC SCHOOLS COLUMBIA, MISSOURI

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

> Date: AUGUST 7, 2024

> > Project No.: **J044517.01**

SAFETY TEAMWORK RESPONSIVENESS INTEGRITY VALUE EXCELLENCE







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

August 7, 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 Cedar Ridge Elementary School 2345 Howell Mountain Drive 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 Cedar Ridge Elementary School, located southwest of the intersection of Columbia Gorge Parkway and Howell Mountain Drive in Columbia, Missouri. The purpose of the drinking water sampling was to identify potable water outlets that may require remediation in accordance with the State of Missouri's *Get the Lead out of School Drinking Water Act* (RSMo 160.077).

#### DRINKING WATER SAMPLING

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

In general conformance with the RSMo 160.077 requirements, and the Environmental Protection Agency's (EPA) *3Ts for Reducing Lead in Drinking Water in Schools and Child Care Facilities* manual, initial water flushing and sampling activities were conducted on January 30 and 31, 2024 and June 25 and 26, 2024, by Mr. Brad Lohrum, a Missouri-licensed lead risk assessor. Mr. Lohrum was assisted by Mr. Seth Lamble, a Missouri-licensed lead inspector.



Copies of training certificates and lead licenses for Messrs. Lohrum 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. 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 of the submitted samples did not detect the presence of lead at or above 5 ppb.

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

#### RECOMMENDATIONS

Our recommendations are summarized below:

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

\* \* \* \* \* \*

The following attachments are included in and complete this report:

Figure 1-Drinking Water Sampling LocationsAppendix A-Certificates and Licenses of Environmental ProfessionalsAppendix B-Drinking Water Sampling FormsAppendix C-Drinking Water Laboratory Data SheetsAppendix 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.

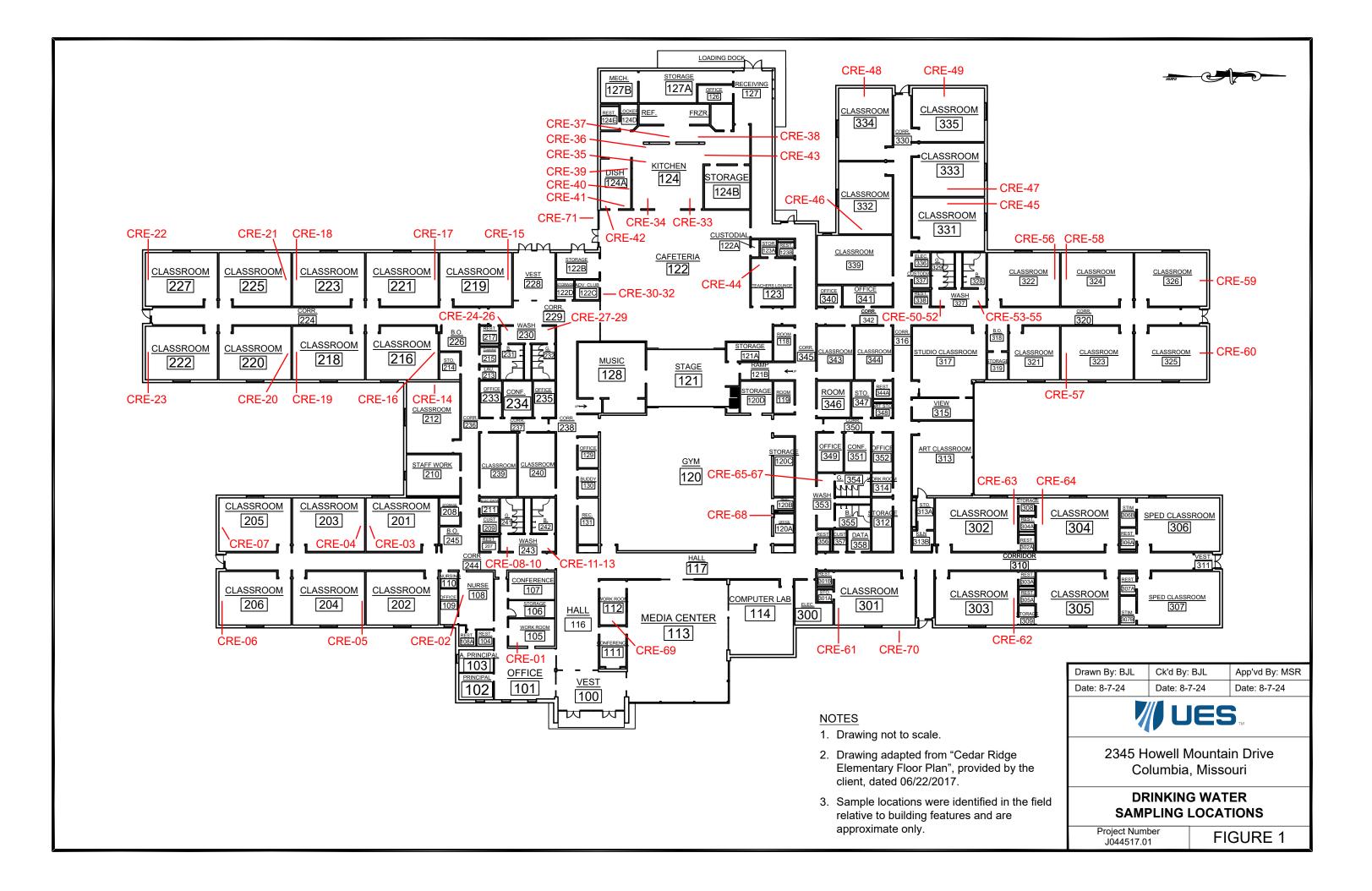
Very truly yours,

UES

Broolly Joh

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.

## **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

# 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.

## **LEAD OCCUPATION LICENSE REGISTRATION**

## Issued to:

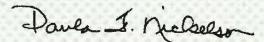
# Seth P. Lamble

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

\_\_\_\_\_\_

## **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

## **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:2Expiration Date:2License Number:2

2/28/2024 2/28/2026 240229-4652

Daven I. Nichels

Paula F. Nickelson 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: Cedar Ridge Elementary Project Number: J044517.01

Address: 2345 Howell Mountain Drive Columbia, Missouri

Sample ID	Fixture Type	Location	Flushed By - Date - Time	Sampled By - Date - Time
CRE-01	S	Room 105	SPL - 1/30/24 - 20:00	BJL - 1/31/24 - 4:08
CRE-02	S	Room 108	SPL - 1/30/24 - 20:01	BJL - 1/31/24 - 4:09
CRE-03	S	Room 201	SPL - 1/30/24 - 20:03	BJL - 1/31/24 - 4:13
CRE-04	S	Room 203	SPL - 1/30/24 - 20:05	SPL - 1/31/24 - 4:15
CRE-05	S	Room 204	SPL - 1/30/24 - 20:06	BJL - 1/31/24 - 4:15
CRE-06	S	Room 206	SPL - 1/30/24 - 20:07	BJL - 1/31/24 - 4:16
CRE-07	S	Room 205	SPL - 1/30/24 - 20:08	SPL - 1/31/24 - 4:16
CRE-08	BF	Room 243 South	SPL - 1/30/24 - 20:10	SPL - 1/31/24 - 4:20
CRE-09	WF	Room 243 South - Left	SPL - 1/30/24 - 20:10	SPL - 1/31/24 - 4:20
CRE-10	WF	Room 243 South - Right	SPL - 1/30/24 - 20:10	SPL - 1/31/24 - 4:20
CRE-11	BF	Room 243 North	SPL - 1/30/24 - 20:11	BJL - 1/31/24 - 4:20
CRE-12	WF	Room 243 North - Right	SPL - 1/30/24 - 20:11	BJL - 1/31/24 - 4:20
CRE-13	WF	Room 243 North - Left	SPL - 1/30/24 - 20:11	BJL - 1/31/24 - 4:20
CRE-14	S	Room 212	SPL - 1/30/24 - 20:13	SPL - 1/31/24 - 4:22
CRE-15	S	Room 219	SPL - 1/30/24 - 20:15	SPL - 1/31/24 - 4:24
CRE-16	S	Room 216	SPL - 1/30/24 - 20:16	BJL - 1/31/24 - 4:24
CRE-17	S	Room 221	SPL - 1/30/24 - 20:17	SPL - 1/31/24 - 4:26
CRE-18	S	Room 223	SPL - 1/30/24 - 20:18	BJL - 1/31/24 - 4:26
CRE-19	S	Room 218	SPL - 1/30/24 - 20:19	SPL - 1/31/24 - 4:27
CRE-20	S	Room 220	SPL - 1/30/24 - 20:20	BJL - 1/31/24 - 4:28
CRE-21	S	Room 225	SPL - 1/30/24 - 20:20	SPL - 1/31/24 - 4:28
CRE-22	S	Room 227	SPL - 1/30/24 - 20:21	SPL - 1/31/24 - 4:30
CRE-23	S	Room 222	SPL - 1/30/24 - 20:22	BJL - 1/31/24 - 4:30
CRE-24	BF	Room 230 South	SPL - 1/30/24 - 20:24	SPL - 1/31/24 - 4:32
CRE-25	WF	Room 230 South - Right	SPL - 1/30/24 - 20:24	SPL - 1/31/24 - 4:32

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: Cedar Ridge Elementary Project Number: J044517.01

Address: 2345 Howell Mountain Drive Columbia, Missouri

Sample ID	Fixture Type	Location	Flushed By - Date - Time	Sampled By - Date - Time
CRE-26	WF	Room 230 South - Left	SPL - 1/30/24 - 20:24	SPL - 1/31/24 - 4:32
CRE-27	BF	Room 230 North	SPL - 1/30/24 - 20:25	BJL - 1/31/24 - 4:32
CRE-28	WF	Room 230 North - Left	SPL - 1/30/24 - 20:25	BJL - 1/31/24 - 4:32
CRE-29	WF	Room 230 North - Right	SPL - 1/3024 - 20:25	BJL - 1/31/24 - 4:32
CRE-30	BF	Cafeteria	SPL - 1/30/24 - 20:27	SPL - 1/31/24 - 4:34
CRE-31	WF	Cafeteria - Left	SPL - 1/30/24 - 20:27	SPL - 1/31/24 - 4:34
CRE-32	WF	Cafeteria - Right	SPL - 1/30/24 - 20:27	SPL - 1/31/24 - 4:34
CRE-33	S	Kitchen Steam Table - Left	SPL - 1/30/24 - 20:32	SPL - 1/31/24 - 4:36
CRE-34	S	Kitchen Steam Table - Right	SPL - 1/30/24 - 20:32	SPL - 1/31/24 - 4:36
CRE-35	S	Kitchen Food Prep South	SPL - 1/30/24 - 20:35	SPL - 1/31/24 - 4:37
CRE-36	S	Kitchen Food Prep East	SPL - 1/30/24 - 20:35	SPL - 1/31/24 - 4:38
CRE-37	S	Kitchen Food Prep West	SPL - 1/30/24 - 20:35	SPL - 1/31/24 - 4:38
CRE-38	S	Kitchen Food Prep North	SPL - 1/30/24 - 20:35	SPL - 1/31/24 - 4:38
CRE-39	S	Kitchen Dishwash - Left	SPL - 1/30/24 - 20:36	SPL - 1/31/24 - 4:40
CRE-40	S	Kitchen Dishwash - Center	SPL - 1/30/24 - 20:36	SPL - 1/31/24 - 4:40
CRE-41	S	Kitchen Dishwash - Right	SPL - 1/30/24 - 20:36	SPL - 1/31/24 - 4:40
CRE-42	S	Kitchen Dish Rinse	SPL - 1/30/24 - 20:36	SPL - 1/31/24 - 4:40
CRE-43	ICE	Kitchen Ice Machine	SPL - 1/30/24 - 20:37	BJL - 1/31/24 - 4:41
CRE-44	S	Room 123	SPL - 1/30/24 - 20:39	SPL - 1/31/24 - 4:43
CRE-45	S	Room 331	SPL - 1/30/24 - 20:42	SPL - 1/31/24 - 4:45
CRE-46	S	Room 332	SPL - 1/30/24 - 20:43	SPL - 1/31/24 - 4:46
CRE-47	S	Room 333	SPL - 1/30/24 - 20:44	SPL - 1/31/24 - 4:47
CRE-48	S	Room 334	SPL - 1/30/24 - 20:45	SPL - 1/31/24 - 4:47
CRE-49	S	Room 335	SPL - 1/30/24 - 20:46	SPL - 1/31/24 - 4:48
CRE-50	BF	Room 327 South	SPL - 1/30/24 - 20:48	SPL - 1/31/24 - 4:50

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: Cedar Ridge Elementary Project Number: J044517.01

Address: 2345 Howell Mountain Drive Columbia, Missouri

Sample ID	Fixture Type	Location	Flushed By - Date - Time	Sampled By - Date - Time
CRE-51	WF	Room 327 South - Left	SPL - 1/30/24 - 20:48	SPL - 1/31/24 - 4:50
CRE-52	WF	Room 327 South - Right	SPL - 1/30/24 - 20:48	SPL - 1/31/24 - 4:50
CRE-53	BF	Room 327 North	SPL - 1/30/24 - 20:49	SPL - 1/31/24 - 4:51
CRE-54	WF	Room 327 North - Right	SPL - 1/30/24 - 20:49	SPL - 1/31/24 - 4:51
CRE-55	WF	Room 327 North - Left	SPL - 1/30/24 - 20:49	SPL - 1/31/24 - 4:51
CRE-56	S	Room 322	SPL - 1/30/24 - 20:52	SPL - 1/31/24 - 4:58
CRE-57	S	Room 323	SPL - 1/30/24 - 20:53	SPL - 1/31/24 - 4:58
CRE-58	S	Room 324	SPL - 1/30/24 - 20:54	SPL - 1/31/24 - 4:59
CRE-59	S	Room 326	SPL - 1/30/24 - 20:55	SPL - 1/31/24 - 5:00
CRE-60	S	Room 325	SPL - 1/30/24 - 20:56	SPL - 1/31/24 - 5:01
CRE-61	S	Room 301	SPL - 1/30/24 - 21:02	SPL - 1/31/24 - 5:03
CRE-62	S	Room 303	SPL - 1/30/24 - 21:03	SPL - 1/31/24 - 5:04
CRE-63	S	Room 302	SPL - 1/30/24 - 21:04	SPL - 1/31/24 - 5:05
CRE-64	S	Room 304	SPL - 1/30/24 - 21:04	SPL - 1/31/24 - 5:06
CRE-65	BF	Room 353 West	SPL - 1/30/24 - 21:10	SPL - 1/31/24 - 5:10
CRE-66	WF	Room 353 West - Left	SPL - 1/30/24 - 21:10	SPL - 1/31/24 - 5:10
CRE-67	WF	Room 353 West - Right	SPL - 1/30/24 - 21:10	SPL - 1/31/24 - 5:10
CRE-68	WF	Gym	SPL - 1/30/24 - 21:11	SPL - 1/31/24 - 5:11
CRE-69	S	Room 112	SPL - 1/30/24 - 21:14	SPL - 1/31/24 - 5:14
CRE-70	WF	Exterior East	BJL - 6/25/24 - 22:01	BJL - 6/26/24 - 6:01
CRE-71	WF	Exterior West	BJL - 6/25/24 - 22:03	BJL - 6/26/24 - 6:03

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/

March 04, 2024

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

**RE:** J044517.01



WorkOrder: 24020194

Dear Brad Lohrum:

TEKLAB, INC received 60 samples on 2/2/2024 3:40:00 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,

Elizabeth & Hurley

Elizabeth A. Hurley Director of Customer Service (618)344-1004 ex 33 ehurley@teklabinc.com



## **Report Contents**

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Client Project: J044517.01

## Work Order: 24020194 Report Date: 04-Mar-24

This reporting package includes the following:

1
2
3
5
6
7
9
Appended



### **Definitions**

http://www.teklabinc.com/

#### Client: Geotechnology, Inc.

Client Project: J044517.01

Work Order: 24020194

Report Date: 04-Mar-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: 24020194

Report Date: 04-Mar-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: 24020194 Report Date: 04-Mar-24

Client: Geotechnology, Inc.

Client Project: J044517.01

### Cooler Receipt Temp: NA °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		



## Accreditations

#### http://www.teklabinc.com/

Work Order: 24020194 Report Date: 04-Mar-24

### Client: Geotechnology, Inc.

### 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		1/31/2025	Collinsville
Missouri	MDNR	00930		10/31/2026	Collinsville
Missouri	MDNR	930		1/31/2025	Collinsville



## **Laboratory Results**

#### http://www.teklabinc.com/

Work Order: 24020194

Report Date: 04-Mar-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	, 200.8 R5.4, META	LS BY ICPMS (TOTAL)						
Lead		· · · ·						
24020194-001	A CRE-01	NELAP	1.0	< 1.0	µg/L	1	03/01/2024 11:20	01/31/2024 16:08
24020194-002/	A CRE-02	NELAP	1.0	< 1.0	μg/L	1	02/27/2024 15:33	01/31/2024 16:09
24020194-003/	A CRE-03	NELAP	1.0	1.9	μg/L	1	02/27/2024 15:44	01/31/2024 16:13
24020194-004		NELAP	1.0	< 1.0	μg/L	1	02/27/2024 15:48	01/31/2024 16:15
24020194-005/	A CRE-05	NELAP	1.0	< 1.0	μg/L	1	02/27/2024 15:51	01/31/2024 16:15
24020194-006/	A CRE-06	NELAP	1.0	1.1	μg/L	1	02/27/2024 15:55	01/31/2024 16:16
24020194-007/	A CRE-07	NELAP	1.0	< 1.0	μg/L	1	02/27/2024 15:59	01/31/2024 16:16
24020194-008/	A CRE-08	NELAP	1.0	< 1.0	μg/L	1	02/29/2024 13:33	01/31/2024 16:20
24020194-009/	A CRE-09	NELAP	1.0	< 1.0	μg/L	1	02/29/2024 13:36	01/31/2024 16:20
24020194-010/	A CRE-10	NELAP	1.0	< 1.0	μg/L	1	02/29/2024 13:40	01/31/2024 16:20
24020194-011/	A CRE-11	NELAP	1.0	< 1.0	μg/L	1	02/29/2024 13:44	01/31/2024 16:20
24020194-012/	A CRE-12	NELAP	1.0	< 1.0	μg/L	1	03/01/2024 11:57	01/31/2024 16:20
24020194-013/	A CRE-13	NELAP	1.0	< 1.0	μg/L	1	02/29/2024 14:09	01/31/2024 16:20
24020194-014/	A CRE-14	NELAP	1.0	1.6	μg/L	1	02/29/2024 14:13	01/31/2024 16:22
24020194-015/	A CRE-15	NELAP	1.0	1.3	μg/L	1	02/29/2024 14:17	01/31/2024 16:24
24020194-016/	A CRE-16	NELAP	1.0	1.1	μg/L	1	02/29/2024 14:20	01/31/2024 16:24
24020194-017/	A CRE-17	NELAP	1.0	< 1.0	μg/L	1	02/29/2024 14:24	01/31/2024 16:26
24020194-018/	A CRE-18	NELAP	1.0	< 1.0	μg/L	1	02/29/2024 14:28	01/31/2024 16:26
24020194-019/	A CRE-19	NELAP	1.0	< 1.0	μg/L	1	02/29/2024 14:31	01/31/2024 16:27
24020194-020/	A CRE-20	NELAP	1.0	< 1.0	μg/L	1	02/29/2024 14:35	01/31/2024 16:28
24020194-021/	A CRE-21	NELAP	1.0	< 1.0	μg/L	1	02/29/2024 14:39	01/31/2024 16:28
24020194-022/	A CRE-22	NELAP	1.0	< 1.0	μg/L	1	03/01/2024 12:08	01/31/2024 16:30
24020194-023/	A CRE-23	NELAP	1.0	< 1.0	μg/L	1	02/29/2024 15:04	01/31/2024 16:30
24020194-024/	A CRE-24	NELAP	1.0	< 1.0	μg/L	1	02/29/2024 15:08	01/31/2024 16:32
24020194-025/	A CRE-25	NELAP	1.0	< 1.0	μg/L	1	02/29/2024 15:12	01/31/2024 16:32
24020194-026/	A CRE-26	NELAP	1.0	< 1.0	μg/L	1	02/29/2024 15:16	01/31/2024 16:32
24020194-027/	A CRE-27	NELAP	1.0	< 1.0	μg/L	1	02/29/2024 15:19	01/31/2024 16:32
24020194-028	A CRE-28	NELAP	1.0	< 1.0	µg/L	1	02/29/2024 11:43	01/31/2024 16:32
24020194-029/	A CRE-29	NELAP	1.0	< 1.0	μg/L	1	02/29/2024 11:46	01/31/2024 16:32
24020194-030/	A CRE-30	NELAP	1.0	< 1.0	μg/L	1	02/29/2024 11:50	01/31/2024 16:34
24020194-031	A CRE-31	NELAP	1.0	< 1.0	μg/L	1	02/29/2024 11:54	01/31/2024 16:34
24020194-032/	A CRE-32	NELAP	1.0	< 1.0	μg/L	1	03/01/2024 11:24	01/31/2024 16:34
24020194-033/	A CRE-33	NELAP	1.0	2.2	μg/L	1	02/29/2024 12:08	01/31/2024 16:36
24020194-034	A CRE-34	NELAP	1.0	< 1.0	μg/L	1	02/29/2024 12:12	01/31/2024 16:36
24020194-035/		NELAP	1.0	4.3	μg/L	1	02/29/2024 12:16	01/31/2024 16:37
24020194-036/	A CRE-36	NELAP	1.0	1.5	µg/L	1	02/29/2024 12:30	01/31/2024 16:38
24020194-037/	A CRE-37	NELAP	1.0	< 1.0	µg/L	1	02/29/2024 12:34	01/31/2024 16:38
24020194-038/	A CRE-38	NELAP	1.0	< 1.0	µg/L	1	02/29/2024 12:38	01/31/2024 16:38
24020194-039/	A CRE-39	NELAP	1.0	1.0	µg/L	1	02/29/2024 12:41	01/31/2024 16:40
24020194-040/	A CRE-40	NELAP	1.0	1.2	µg/L	1	02/29/2024 12:45	01/31/2024 16:40
24020194-041	A CRE-41	NELAP	1.0	< 1.0	µg/L	1	02/29/2024 12:49	01/31/2024 16:40
24020194-042/	A CRE-42	NELAP	1.0	1.1	µg/L	1	03/01/2024 11:46	01/31/2024 16:40
24020194-043/	A CRE-43	NELAP	1.0	< 1.0	µg/L	1	02/29/2024 13:03	01/31/2024 16:41
24020194-044	A CRE-44	NELAP	1.0	< 1.0	μg/L	1	02/29/2024 13:18	01/31/2024 16:43
24020194-045/		NELAP	1.0	1.1	μg/L	1	02/29/2024 13:22	01/31/2024 16:45
24020194-046		NELAP	1.0	< 1.0	μg/L	1	02/29/2024 13:25	01/31/2024 16:46
24020194-047/		NELAP	1.0	< 1.0	μg/L	1	02/29/2024 13:29	01/31/2024 16:47
24020194-048		NELAP	1.0	< 1.0	μg/L	1	02/29/2024 5:44	01/31/2024 16:47



## **Laboratory Results**

#### http://www.teklabinc.com/

Work Order: 24020194

Report Date: 04-Mar-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								
24020194-049	A CRE-49	NELAP	1.0	< 1.0	µg/L	1	02/29/2024 5:48	01/31/2024 16:48
24020194-050	A CRE-50	NELAP	1.0	< 1.0	µg/L	1	02/29/2024 5:52	01/31/2024 16:50
24020194-051	A CRE-51	NELAP	1.0	< 1.0	µg/L	1	02/29/2024 5:55	01/31/2024 16:50
24020194-052	A CRE-52	NELAP	1.0	< 1.0	µg/L	1	03/01/2024 10:58	01/31/2024 16:50
24020194-053	A CRE-53	NELAP	1.0	< 1.0	µg/L	1	02/29/2024 6:10	01/31/2024 16:51
24020194-054	A CRE-54	NELAP	1.0	< 1.0	µg/L	1	02/29/2024 6:14	01/31/2024 16:51
24020194-055	A CRE-55	NELAP	1.0	< 1.0	µg/L	1	02/29/2024 6:17	01/31/2024 16:51
24020194-056	A CRE-56	NELAP	1.0	< 1.0	µg/L	1	02/29/2024 6:32	01/31/2024 16:58
24020194-057	A CRE-57	NELAP	1.0	1.0	µg/L	1	02/29/2024 6:36	01/31/2024 16:58
24020194-058	A CRE-58	NELAP	1.0	< 1.0	µg/L	1	02/29/2024 6:39	01/31/2024 16:59
24020194-059	A CRE-59	NELAP	1.0	< 1.0	µg/L	1	02/29/2024 6:43	01/31/2024 17:00
24020194-060	A CRE-60	NELAP	1.0	< 1.0	µg/L	1	02/29/2024 6:47	01/31/2024 17:01



## **Receiving Check List**

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Client Project: J044517.01

Work Order: 24020194 Report Date: 04-Mar-24

Carrier: Craig McKinney On: 05-Feb-24 Othor Olocuu Amber Dilallo	Re	eived By: LM viewed by: On: Feb-24 E	Elled Hopke Ellie Hopkins	nO
Pages to follow:Chain of custody6Shipping container/cooler in good condition?Type of thermal preservation?Chain of custody present?Chain of custody signed when relinquished and received?Chain of custody agrees with sample labels?Samples in proper container/bottle?Sample containers intact?Sufficient sample volume for indicated test?All samples received within holding time?	Extra pages include Yes V None V Yes V Yes V Yes V Yes V Yes V Yes V Yes V	ed 0 No   Ice   No   No	Not Present	Temp ℃ <b>NA</b> Dry Ice
Reported field parameters measured: Container/Temp Blank temperature in compliance? When thermal preservation is required, samples are complian 0.1°C - 6.0°C, or when samples are received on ice the same	Field Yes The with a temperature of day as collected.	Lab No re between	NA 🗹	
Water – at least one vial per sample has zero headspace? Water - TOX containers have zero headspace?	Yes □ Yes □	No 🗌	No VOA vials ✔ No TOX containers ✔	
Water - pH acceptable upon receipt?	Yes 🗹			
NPDES/CWA TCN interferences checked/treated in the field?	Yes	No 🗌	NA 🗹	
Any No responses n	nust be detailed be	olow or on the	COC.	

Samples were checked for turbidity and then preserved with nitric acid upon arrival in the laboratory.

l	of	40	Work order #	24020194
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TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005

pg.

Contact: E-Mail: Are these samples Are these samples Are there any requilimits in the comm	Address:       11816 Lackland Road         City / State / Zip       St. Louis, MO 63146         Contact:       Brad Lohrum         blohrum@teamues.com       Fax:         re these samples known to be involved in litigation? If yes, a surcharge will apply       Yes X No         re these samples known to be hazardous?       Yes X No         re these samples known to be hazardous?       Yes X No         re there any required reporting limits to be met on the requested analysis?. If yes, please provide mits in the comment section.       Yes X No         Project Name/Number       Sample Collector's Name         J044517.01       Brad Lohrum         Results Requested       Billing Instructions       # and Type of Containers									No	F	Pres ab lien	Note	ed ir es mm	:)×			I BLU	D		 <u>FC</u>				C ONL	<u>.Y</u>	#		
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1							of	Cont	aine	Ŷ	A	Drin		Spe	Gro	, V V -													
X Standard	S REQUESTED 1-2 Day (100% Surcharge) 3 Day (50% Surcharge)	Billing Ins			1	-	H2SO4	1	1		Aqueous	Drinking Water	Soil	Special Waste	Groundwater	Lead E200.8													
Lab Use Only	Sample Identification	Date/Time	ate/Time Sampled						Ť	70		ę		õ	1	0,8						Ļ			ļ				
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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



pg. 2 of 40 Work order # 24020194

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

Client: Geotechnology, LLC										Samples on: III ICE III BLUE ICE III NO ICE <sup>O</sup> C LTG#																			
Address:	11816 Lackla	nd Road								-							📓 FIEL					RL	AB L	JSE	ONL	<u>Y</u>			
City / State	/ Zip St. Louis, MO	63146									Lat	) No	otes	5															
Contact:	Brad Lohrum		_ Phone	<b>::</b>	(31	4) 9	97-74	10																					
E-Mail:	blohrum@teamues.co	m	_ Fax:								Clie	nt C	Con	nme	ents	5:				•									
Are these samples Are there any requirements in the commission of	e these samples known to be involved in litigation? If yes, a surcharge will apply these samples known to be hazardous? there any required reporting limits to be met on the requested analysis?. If yes, please provide its in the comment section. Yes No Project Name/Number Sample Collector's Name																												
Project l	Name/Number	S	ample Col	lect	or's	s Na	me			L	1	MA	[RI]	X							NAL	YSI	S RE	QU	ESTI	ED			
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on	17		4:26	1							X					Х													
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BottleOrder: 80481



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

Client:		Geotechnology, Li	LC										T	Sa	mp	les	on:	<b>@</b>	ICE	8	BLU	E ICE	<b>3</b>	NO IO	CE			0	°C	LTG	#		
Address:		11816 Lackland Road													Preserved in: Image: LAB Image: FIELD FOR LAB USE ONLY																		
City / State	/ Zio	St. Louis, MO 63	146											Lal	b٨	lote	s																
	Brad Lo	hrum			_ Phone	<b>):</b>	(	314)	997	-744	0																						
E-Mail:	blohrun	@teamues.com Fax:											.	Clie	nt	Coi	nm	ent	s:														
Are these samples	known	to be involved in lit	igation?	If ves, a	a surcharge	will	appl	v		Yes	X	No	_																				
Are these samples	known	to be hazardous?	🗌 Yes	X	No																												
Are there any required limits in the common	ired rep ent sect	orting limits to be n	net on th	e reque	ested analys	is?.	lf ye	s, pl	leas	e pro	vide																						
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	4517				Brad L				<b>10</b> 01	f Cor	atain	ars	⊳				Spe	Gro	DW -														
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BottleOrder: 80481

pg. 3 of  $4^{\circ}$  Work order # <u>24020194</u>



pg. 4 of 40 Work order # 24020194

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

Client:	Geotechnology,	LLC							•		Sam	ple	s or	<b>1:</b> [	<b>**</b>	CE	<b>E</b>	BLUE	ICE		IO IC				_	С		#		]
Address:	11816 Lackland	Road							Preserved in: In LAB In FIELD FOR LAB USE ONLY																					
City / State	/ Zip St. Louis, MO 6	3146									Lab	Not	es																	
Contact:	Brad Lohrum		Phone	:	(31	4) 99	7-744	0																						
E-Mail:	blohrum@teamues.com	m@teamues.com Fax:												ner	nts:	:														
Are these samples	re these samples known to be involved in litigation? If yes, a surcharge will apply [] Yes 🕅 No																													
Are these samples	s known to be hazardous'	Yes 🛛 No																												
Are there any requiring in the comm	ired reporting limits to be ent section. TYes	met on the requeste	d analysis	s?. If	yes,	plea	se pro	ovide																						
	Name/Number												RIX		ſ				IND	ICA'	TE A	NAL	YSI	s re	EQU	EST	ED			
-	4517.01		Irad Lo							┢──	D	Ì				R														
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X Standard	1-2 Day (100% Surcharge)	Damiy instau		c	_ [			- Z	: 0	Aqueous	ing	Soil	Sludge		nd	Lead														
Other	3 Day (50% Surcharge)			NPR	NO S	H2SO4	臣		OTHER	sno	Drinking Water		Sludae		Groundwater	E200.8														
Lab Use Only	Sample Identificatio	Date/Time Sa	mpled	ES	Ű			<u>*</u>	~	ŀ	:er		ĥ	5	Ť	0.8														
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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



pg. 5 of 40 Work order # <u>24020 194</u>

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 required limits in the comm	Address:         11816 Lackland Road           City / State / Zip         St. Louis, MO 63146           Brad Lohrum         Phone:         (314) 997-7440																											
J04 <b>Result</b> Standard	1-2 Day (100% Surcharge)	Sample Col Brad Lo Billing Instructions	ohrum # and	Тур	e of Co			Aqueous	Dri	Soil		Groundwater	DW - Lead											-				
Lab Use Only	3 Day (50% Surcharge)	Date/Time Sampled	HNO3 UNPRES	laOH	HCL H2SO4	HSO4	THER	ū		a	Vaste	vater	8															
24020444 042 042 043 044 045 046 048 048 048 048 048	$   \begin{array}{c}     CRE - 41 \\     CRE - 42 \\     43 \\     44 \\     44 \\     45 \\     45 \\     46 \\     47 \\     48 \\     49 \\     49 \\     50 \\     Relinguished By   \end{array} $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $								X     X     X       X     X     X       X     X     X       X     X     X       X     X     X       X     X     X       X     X     X       X     X     X       X     X     X       X     X     X       X     X     X       X     X     X       X     X     X       X     X     X       X     X     X       X     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.

BottleOrder: 80481



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

Client:	Ge	otechnology, LL	.C																	] BLU			NO IC				_ °(	-		#		_
Address:		11816 Lackland Road												Preserved in: LAB FIELD FOR LAB USE ONLY																		
City / State	/ Zip St.	Louis, MO 631	46										La	ab I	Note	s																
Contact:	Brad Lohru	m		PI	hone	):	(3	14) 9	97-74	40		_																				
E-Mail:	blohrum@t	@teamues.com Fax:												ent	t Co	nm	ent	s:														
Are these samples	e these samples known to be involved in litigation? If yes, a surcharge will apply 🗌 Yes 🕅 No																															
Are these samples							-																									
Are there any requiring the committee in	ired reportinent section.	ng limits to be m	iet on th No	e requested a	analysi	\$?. I	f yes	, plea	ase pi	rovid	ę																					
	Name/Nu													MATRIX INDICATE ANALYSIS REQUESTED																		
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X Standard	1-2 Day (100	)% Surcharge)	Ganni	y alsoluou	ons		_			_	z c				Sludge	ial \	Ind	Lead				1										
Other	🔲 3 Day (50	0% Surcharge)				UNPRES	No.		HCL	MeO	NaHSO4			5	- 6	Special Waste	Groundwater	E200.8														
Lab Use Only	Sample	Identification	Dat	e/Time Samj	oled	ES	ω	4			¥ 7	3	ler	Ì		e	Ť	0.8														
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BottleOrder: 80481

pg. 6 of 40 Work order # 24020194





#### http://www.teklabinc.com/

March 04, 2024

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

**RE:** J044517.01



WorkOrder: 24020195

Dear Brad Lohrum:

TEKLAB, INC received 60 samples on 2/2/2024 3:40:00 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,

Elizabeth & Hurley

Elizabeth A. Hurley Director of Customer Service (618)344-1004 ex 33 ehurley@teklabinc.com



## **Report Contents**

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Client Project: J044517.01

## Work Order: 24020195 Report Date: 04-Mar-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.

Client Project: J044517.01

Work Order: 24020195

Report Date: 04-Mar-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: 24020195

#### Report Date: 04-Mar-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: 24020195 Report Date: 04-Mar-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/

Work Order: 24020195 Report Date: 04-Mar-24

## Client: Geotechnology, Inc.

## 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		1/31/2025	Collinsville
Missouri	MDNR	00930		10/31/2026	Collinsville
Missouri	MDNR	930		1/31/2025	Collinsville



#### http://www.teklabinc.com/

Work Order: 24020195

Report Date: 04-Mar-24

Client: Geotechnology, Inc.

### Client Project: J044517.01

Sample ID	Client Sample ID	Certification Qual	RL	Result	Units	DF	Date Analyzed	Date Collected
	, 200.8 R5.4, META	LS BY ICPMS (TOTAL)						
Lead					*			
24020195-001		NELAP	1.0	1.2	µg/L	1	02/29/2024 6:50	01/31/2024 5:03
24020195-002/		NELAP	1.0	< 1.0	µg/L	1	03/01/2024 11:09	01/31/2024 5:04
24020195-003		NELAP	1.0	< 1.0	µg/L	1	02/29/2024 7:05	01/31/2024 5:05
24020195-004/		NELAP	1.0	< 1.0	µg/L	1	02/29/2024 8:18	01/31/2024 5:06
24020195-005		NELAP	1.0	< 1.0	µg/L	1	02/29/2024 8:22	01/31/2024 5:10
24020195-006		NELAP	1.0	< 1.0	µg/L	1	02/29/2024 8:26	01/31/2024 5:10
24020195-007		NELAP	1.0	< 1.0	µg/L	1	02/29/2024 8:29	01/31/2024 5:10
24020195-008		NELAP	1.0	< 1.0	µg/L	1	02/29/2024 15:23	01/31/2024 5:11
24020195-009/		NELAP	1.0	< 1.0	µg/L	1	02/29/2024 15:27	01/31/2024 5:14
24020195-010		NELAP	1.0	1.2	µg/L	1	02/29/2024 15:41	01/31/2024 5:37
24020195-011/		NELAP	1.0	< 1.0	µg/L	1	02/29/2024 15:45	01/31/2024 5:37
24020195-012		NELAP	1.0	< 1.0	µg/L	1	02/29/2024 15:49	01/31/2024 5:40
24020195-013		NELAP	1.0	< 1.0	µg/L	1	02/29/2024 15:52	01/31/2024 5:40
24020195-014		NELAP	1.0	< 1.0	µg/L	1	02/29/2024 15:56	01/31/2024 5:40
24020195-015/		NELAP	1.0	1.2	µg/L	1	02/29/2024 16:00	01/31/2024 5:43
24020195-016		NELAP	1.0	2.4	µg/L	1	02/29/2024 16:03	01/31/2024 5:43
24020195-017		NELAP	1.0	4.1	µg/L	1	03/01/2024 12:19	01/31/2024 5:44
24020195-018		NELAP	1.0	1.1	µg/L	1	02/29/2024 16:29	01/31/2024 5:45
24020195-019/		NELAP	1.0	< 1.0	µg/L	1	02/29/2024 16:33	01/31/2024 5:45
24020195-020/		NELAP	1.0	< 1.0	µg/L	1	02/29/2024 16:36	01/31/2024 5:46
24020195-021		NELAP	1.0	1.3	µg/L	1	03/01/2024 12:41	01/31/2024 5:47
24020195-022		NELAP	1.0	1.1	µg/L	1	02/29/2024 16:51	01/31/2024 5:50
24020195-023		NELAP	1.0	< 1.0	µg/L	1	02/29/2024 16:55	01/31/2024 5:51
24020195-024		NELAP	1.0	< 1.0	µg/L	1	02/29/2024 16:58	01/31/2024 5:51
24020195-025		NELAP	1.0	< 1.0	µg/L	1	02/29/2024 17:02	01/31/2024 5:51
24020195-026		NELAP	1.0	< 1.0	µg/L	1	02/29/2024 17:17	01/31/2024 5:51
24020195-027		NELAP	1.0	26.6	µg/L	5	03/02/2024 6:34	01/31/2024 5:53
24020195-028		NELAP	1.0	< 1.0	µg/L	1	02/29/2024 17:20	01/31/2024 5:54
24020195-029		NELAP	1.0	< 1.0	µg/L	1	02/29/2024 17:24	01/31/2024 5:54
24020195-030		NELAP	1.0	< 1.0	µg/L	1	02/29/2024 17:28	01/31/2024 5:56
24020195-031/		NELAP	1.0	< 1.0	µg/L	1	02/29/2024 17:31	01/31/2024 5:56
24020195-032		NELAP	1.0	< 1.0	µg/L	1	03/01/2024 12:52	01/31/2024 5:56
24020195-033/		NELAP	1.0	< 1.0	µg/L	1	02/29/2024 17:46	01/31/2024 5:56
24020195-034/	A RKB-25	NELAP	1.0	3.6	µg/L	1	02/29/2024 17:50	01/31/2024 5:57
24020195-035	A RKB-26	NELAP	1.0	22.4	µg/L	1	02/29/2024 18:04	01/31/2024 5:58
24020195-036	A RKB-27	NELAP	1.0	49.4	µg/L	5	03/02/2024 7:07	01/31/2024 5:59
24020195-037	A RKB-28	NELAP	1.0	43.0	µg/L	5	03/02/2024 6:38	01/31/2024 5:59
24020195-038/	A RKB-29	NELAP	1.0	13.4	µg/L	5	03/02/2024 7:11	01/31/2024 6:02
24020195-039/	A RKB-30	NELAP	1.0	17.2	µg/L	1	02/29/2024 18:08	01/31/2024 6:03
24020195-040	A RKB-31	NELAP	1.0	15.4	µg/L	1	02/29/2024 18:12	01/31/2024 6:04
24020195-041	A RKB-32	NELAP	1.0	5.9	µg/L	1	02/29/2024 18:15	01/31/2024 6:04
24020195-042	A RKB-33	NELAP	1.0	7.5	µg/L	1	02/29/2024 18:19	01/31/2024 6:06
24020195-043	A RKB-34	NELAP	1.0	2.4	µg/L	1	02/29/2024 18:23	01/31/2024 6:06
24020195-044	A RKB-35	NELAP	1.0	5.8	µg/L	1	02/29/2024 18:26	01/31/2024 6:08
24020195-045	A RKB-36	NELAP	1.0	2.3	µg/L	1	02/29/2024 18:30	01/31/2024 6:08
24020195-046	A RKB-37	NELAP	1.0	< 1.0	µg/L	1	03/01/2024 13:03	01/31/2024 6:09
24020195-047	A RKB-38	NELAP	1.0	< 1.0	µg/L	1	02/29/2024 18:56	01/31/2024 6:09
24020195-048/	A RKB-39	NELAP	1.0	< 1.0	µg/L	1	02/29/2024 18:59	01/31/2024 6:10





#### http://www.teklabinc.com/

Work Order: 24020195

Report Date: 04-Mar-24

Client: Geotechnology, Inc.

### Client Project: J044517.01

Sample ID	<b>Client Sample ID</b>	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								
24020195-049	A RKB-40	NELAP	1.0	4.2	µg/L	1	02/29/2024 19:03	01/31/2024 6:10
24020195-050	A RKB-41	NELAP	1.0	3.3	µg/L	1	02/29/2024 19:07	01/31/2024 6:11
24020195-051	A RKB-42	NELAP	1.0	< 1.0	µg/L	1	02/29/2024 19:10	01/31/2024 6:11
24020195-052	A RKB-43	NELAP	1.0	1.5	µg/L	1	02/29/2024 19:14	01/31/2024 6:12
24020195-053	A RKB-44	NELAP	1.0	< 1.0	µg/L	1	03/01/2024 13:25	01/31/2024 6:13
24020195-054	A RKB-45	NELAP	1.0	5.9	µg/L	1	03/01/2024 13:36	01/31/2024 6:13
24020195-055	A RKB-46	NELAP	1.0	3.0	µg/L	5	03/02/2024 7:15	01/31/2024 6:18
24020195-056	A RKB-47	NELAP	1.0	3.8	µg/L	5	03/02/2024 7:20	01/31/2024 6:18
24020195-057	A RKB-48	NELAP	1.0	4.1	µg/L	5	03/02/2024 7:24	01/31/2024 6:18
24020195-058	A RKB-49	NELAP	1.0	1.3	µg/L	5	03/02/2024 7:28	01/31/2024 6:18
24020195-059	A RKB-50	NELAP	1.0	< 1.0	µg/L	1	03/01/2024 13:39	01/31/2024 6:20
24020195-060	A RKB-51	NELAP	1.0	1.2	µg/L	1	03/01/2024 13:43	01/31/2024 6:20



# **Receiving Check List**

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Client Project: J044517.01

Work Order: 24020195 Report Date: 04-Mar-24

Carrier: Craig McKinney	Re	ceived By: LM		
Completed by: On: 05-Feb-24 Othor Oleanu Amber Dilallo	ų.	Reviewed by: On: 5-Feb-24 ]	Elled Hopf Ellie Hopkins	cens
Pages to follow: Chain of custody 6	Extra pages inclue	ded 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 🗹			
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 $0.1^{\circ}$ C - $6.0^{\circ}$ 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 b	elow or on the	COC.	

Samples were checked for turbidity and then preserved with nitric acid upon arrival in the laboratory.

CHAIN OF CUSTODY

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	Address:         11816 Lackland Road           City / State / Zip         St. Louis, MO 63146           Brad Lohrum         Phone:         (314) 997-7440							1		ser No	vec	1 in s	×	LAB		BLU		×			( <u>0R L</u>	AB		°C E ONI		¥					
Project l	Name/Number	Sa	mple Coll	ect	or's	Na	me					N	<b>I</b> A'	RI	X					INE	DICA	TE /	ANA	LYS	IS RI	EQU	JEST	ED			
J04	4517.01		Brad Lo	hru	um							D			S	ភ្	DW														
Results Requested Billing		Billing Inst		}	_	-	of C		I I	s	Aqu	inkin	s	slu	)ecia	roun	- Lead										1				
	3 Day (50% Surcharge)			UNPRE	HNOS		HCL	MeOH	NaHSO4	OTHE	Aqueous	Drinking Water	Soil	Sludge	Special Waste	Groundwater	ad E200.8														
Lab Use Only	Sample Identification	Date/Time	Sampled	S		-			ã	~		er	<u> </u>		ê		ώ							<u> </u>	┢	<b></b>	╞	ļ		<b></b>	
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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

pg. 7 of 40 Work order # 24020195





#### http://www.teklabinc.com/

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.

Client Project: J044517.01

## Work Order: 24062353 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.

Client Project: J044517.01

Work Order: 24062353

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 )



Client Project: J044517.01

## **Definitions**

#### http://www.teklabinc.com/

Work Order: 24062353

Report Date: 11-Jul-24

## Qualifiers

# - Unknown hydrocarbon

Client: Geotechnology, Inc.

- 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/

Work Order: 24062353

Report Date: 11-Jul-24

## Client: Geotechnology, Inc.

## Client Project: J044517.01

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



#### http://www.teklabinc.com/

Work Order: 24062353

Report Date: 11-Jul-24

Client: Geotechnology, Inc.

### Client Project: J044517.01

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)						
_ead								
24062353-001A	SMS-01-2	NELAP	1.0	4.6	µg/L	1	07/03/2024 17:08	06/26/2024 15:07
24062353-002A	A SMS-02-2	NELAP	1.0	3.5	µg/L	1	07/03/2024 17:23	06/26/2024 15:08
24062353-003A	SMS-58-2	NELAP	1.0	7.5	µg/L	1	07/03/2024 17:26	06/26/2024 15:11
24062353-004A	SMS-59-2	NELAP	1.0	3.3	µg/L	1	07/03/2024 17:30	06/26/2024 15:12
24062353-005A	SMS-60-2	NELAP	1.0	8.7	µg/L	1	07/03/2024 17:34	06/26/2024 15:13
24062353-006A	SMS-61-2	NELAP	1.0	6.9	µg/L	1	07/03/2024 17:37	06/26/2024 15:14
24062353-007 <i>A</i>	SMS-62-2	NELAP	1.0	7.4	µg/L	1	07/08/2024 22:34	06/26/2024 15:1
24062353-008A	SMS-74-2	NELAP	1.0	1.9	µg/L	1	07/03/2024 17:52	06/26/2024 15:18
24062353-009A	A PKE-66-2	NELAP	1.0	< 1.0	µg/L	1	07/03/2024 17:56	06/26/2024 15:52
24062353-010A	PKE-67-2	NELAP	1.0	< 1.0	µg/L	1	07/03/2024 18:10	06/26/2024 15:52
24062353-011A	A PKE-70-2	NELAP	1.0	2.2	µg/L	1	07/03/2024 18:14	06/26/2024 15:55
24062353-012A	A RBE-08-2	NELAP	1.0	1.3	µg/L	1	07/03/2024 18:18	06/26/2024 16:06
24062353-013A	RBE-11-2	NELAP	1.0	1.6	µg/L	1	07/03/2024 18:21	06/26/2024 16:07
24062353-014A	FES-52-2	NELAP	1.0	< 1.0	µg/L	1	07/03/2024 18:25	06/26/2024 16:10
24062353-015A	BRH-82	NELAP	1.0	< 1.0	µg/L	1	07/03/2024 18:29	06/26/2024 16:33
24062353-016A	A BRH-83	NELAP	1.0	< 1.0	µg/L	1	07/03/2024 18:33	06/26/2024 16:36
24062353-017A	MCE-09-2	NELAP	1.0	1.3	µg/L	1	07/08/2024 22:45	06/26/2024 16:5
24062353-018A	MCE-87	NELAP	1.0	< 1.0	µg/L	1	07/03/2024 18:58	06/26/2024 16:54
24062353-019A	MCE-88	NELAP	1.0	< 1.0	µg/L	1	07/03/2024 19:02	06/26/2024 16:54
24062353-020A	RBH-30-2	NELAP	1.0	12.4	µg/L	1	07/03/2024 19:05	06/26/2024 17:1
24062353-021A	RBH-103	NELAP	1.0	1.9	µg/L	1	07/03/2024 19:09	06/26/2024 17:2
24062353-022A	RBH-104	NELAP	1.0	3.6	µg/L	1	07/03/2024 19:13	06/26/2024 17:2
24062353-023A		NELAP	1.0	< 1.0	µg/L	1	07/03/2024 19:16	06/26/2024 17:22
24062353-024A	RBH-106	NELAP	1.0	< 1.0	µg/L	1	07/03/2024 19:20	06/26/2024 17:22
24062353-025A	NHE-10-2	NELAP	1.0	< 1.0	µg/L	1	07/03/2024 19:24	06/26/2024 17:44
24062353-026A		NELAP	1.0	3.7	µg/L	1	07/03/2024 19:28	06/26/2024 17:40
24062353-027A		NELAP	1.0	< 1.0	µg/L	1	07/05/2024 12:13	06/26/2024 18:0
24062353-028A		NELAP	1.0	< 1.0	μg/L	1	07/03/2024 19:53	06/26/2024 18:03
24062353-029A		NELAP	1.0	13.2	µg/L	1	07/03/2024 19:57	06/26/2024 18:20
24062353-030A		NELAP	1.0	4.6	µg/L	1	07/03/2024 20:01	06/26/2024 18:3
24062353-031A		NELAP	1.0	2.1	µg/L	1	07/03/2024 20:04	06/26/2024 18:54
24062353-032A		NELAP	1.0	< 1.0	µg/L	1	07/03/2024 20:08	06/26/2024 19:07
24062353-033A		NELAP	1.0	6.4	µg/L	1	07/03/2024 20:12	06/26/2024 19:19
24062353-034 <i>A</i>		NELAP	1.0	2.7	µg/L	1	07/03/2024 20:12	06/26/2024 19:32
24062353-035A		NELAP	1.0	< 1.0	µg/L	1	07/05/2024 12:35	06/26/2024 19:5
24062353-036A		NELAP	1.0	< 1.0	µg/L	1	07/03/2024 20:41	06/26/2024 19:56
24062353-030A		NELAP	1.0	1.1	µg/L	1	07/03/2024 20:41	06/26/2024 19:57
24062353-037 <i>F</i> 24062353-038A		NELAP	1.0	< 1.0		1	07/03/2024 20:43	06/26/2024 20:00
24002353-038A 24062353-039A		NELAP	1.0		µg/L	1		06/26/2024 20:07
24062353-039 <i>F</i> 24062353-040 <i>F</i>		NELAP	1.0	< 1.0	µg/L	1	07/03/2024 20:52 07/03/2024 20:56	06/26/2024 20:0
24062353-040 <i>F</i> 24062353-041 <i>F</i>				< 1.0	µg/L			06/26/2024 20:10
			1.0	< 1.0	µg/L	1	07/03/2024 20:59	
24062353-042A 24062353-042A			1.0	< 1.0	µg/L	1	07/05/2024 12:46	06/26/2024 20:1
24062353-043A			1.0	< 1.0	µg/L	1	07/03/2024 21:25	06/26/2024 20:1
24062353-044A			1.0	5.6	µg/L	1	07/03/2024 21:29	06/26/2024 20:1
24062353-045A		NELAP	1.0	17.7	µg/L	1	07/03/2024 21:32	06/26/2024 20:39
24062353-046A		NELAP	1.0	< 1.0	µg/L	1	07/03/2024 21:36	06/26/2024 20:43
24062353-047A		NELAP	1.0	17.6	µg/L	1	07/08/2024 23:07	06/26/2024 21:10
24062353-048A	A BHS-122-2	NELAP	1.0	4.3	µg/L	1	07/03/2024 21:51	06/26/2024 21:



#### http://www.teklabinc.com/

Work Order: 24062353

Report Date: 11-Jul-24

Client: Geotechnology, Inc.

### Client Project: J044517.01

Mati	IX. DRINKING WA	ILK						
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)						
24062353-049	A BHS-125-2	NELAP	1.0	8.8	µg/L	1	07/03/2024 21:54	06/26/2024 21:20
24062353-050	A BHS-126-2	NELAP	1.0	5.9	µg/L	1	07/03/2024 22:09	06/26/2024 21:20
24062353-051	A BHS-130-2	NELAP	1.0	< 1.0	µg/L	1	07/03/2024 22:13	06/26/2024 21:26
24062353-052	A BHS-222	NELAP	1.0	< 1.0	µg/L	1	07/03/2024 22:16	06/26/2024 21:30
24062353-053	A BHS-223	NELAP	1.0	1.1	µg/L	1	07/03/2024 22:20	06/26/2024 21:30
24062353-054	A BHS-224	NELAP	1.0	< 1.0	µg/L	1	07/03/2024 22:24	06/26/2024 21:30
24062353-055	A BHS-225	NELAP	1.0	1.3	µg/L	1	07/03/2024 22:27	06/26/2024 21:30
24062353-056	A BHS-226	NELAP	1.0	3.0	µg/L	1	07/03/2024 22:31	06/26/2024 21:15
24062353-057	A BHS-227	NELAP	1.0	2.8	µg/L	1	07/03/2024 22:35	06/26/2024 21:15



# **Receiving Check List**

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Client Project: J044517.01

Work Order: 24062353 Report Date: 11-Jul-24

Carrier: Craig McKinney Completed by: On: 28-Jun-24 Paul Schultz	Re F 21	ens		
Pages to follow: Chain of custody 6	Extra pages inclu	ded 0		
Shipping container/cooler in good condition?	Yes 🗸	No	Not Present	Temp °C NA
Type of thermal preservation?	None 🗸			Dry Ice
Chain of custody present?	Yes 🗸			
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 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 r	must be detailed l	pelow 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

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

Client:		Geotechnology, LLC											Samples on: ICE III BLUE ICE III NO ICE °C LTG#											
Address: City / State		11816 Lackland Road											Preserved in: LAB FIELD FOR LAB USE ONLY											
	/ Zin	St. Louis, MO 63146												Lab Notes										
Contact:	Brad L			Phone: (314) 997-7440																				
E-Mail:	blohru	m@teamues.com		Fax:									Client Comments:											
Are these sample	es knowr	n to be involved in li	tigation? I	f ves. a surcharde	will	appl	/		Yes	X	No	_												
Are these sample	es knowr	n to be hazardous?	🗌 Yes	X No																				
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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



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## 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.