

WATER SAMPLING AND REPORTING SERVICES

COLUMBIA PUBLIC SCHOOLS
ELIOT BATTLE ELEMENTARY SCHOOL
2400 BATTLE AVENUE
COLUMBIA, MISSOURI

Prepared for:

COLUMBIA PUBLIC SCHOOLS
COLUMBIA, MISSOURI

Prepared by:

GEOTECHNOLOGY, LLC, DBA UES St. Louis, Missouri

Date:

AUGUST 23, 2024

Project No.:

J044517.01







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

August 23, 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

Eliot Battle Elementary School

2400 Battle 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 Columbia Public Schools Eliot Battle Elementary School, located east of the terminus of Tabor Drive at Battle 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 February 8 and 9, 2024, and June 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 detected the presence of lead at or above 5 ppb in the following sample.

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

Sample Number / Location and Fixture Type	Results
EBE-35 / Kitchen – Food Prep East Sink	24.7 ppb

UES personnel resampled this outlet on April 12, 2024 (EBE-35-2), and again on June 26, 2024 (EBE-35-3). Laboratory analyses detected the presence of lead at or above 5 ppb in the following samples.

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

Sample Number / Location and Fixture Type	Results
EBE-35-2 / Kitchen – Food Prep East Sink	9.8 ppb
EBE-35-3 / Kitchen – Food Prep East Sink	17.7 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 outlet identified in Table 2 has been taken out of service pending further remediation activities. This fixture should be resampled and tested prior to being put back into service.
- The exterior water fountain located on the east side of the building was not operational at the time of sampling activities and was not sampled. Should this fixture be put back into service, it should first be sampled and tested.

* * * * * *

The following attachments are included in and complete this report:

Figure 1 - Drinking Water Sample Locations

Appendix A - Certificates and Licenses of Environmental Professionals

Appendix B - Drinking Water Sampling Forms

Appendix C - Drinking Water Laboratory Data Sheets

Appendix D - Limitations of Report

* * * * * *

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

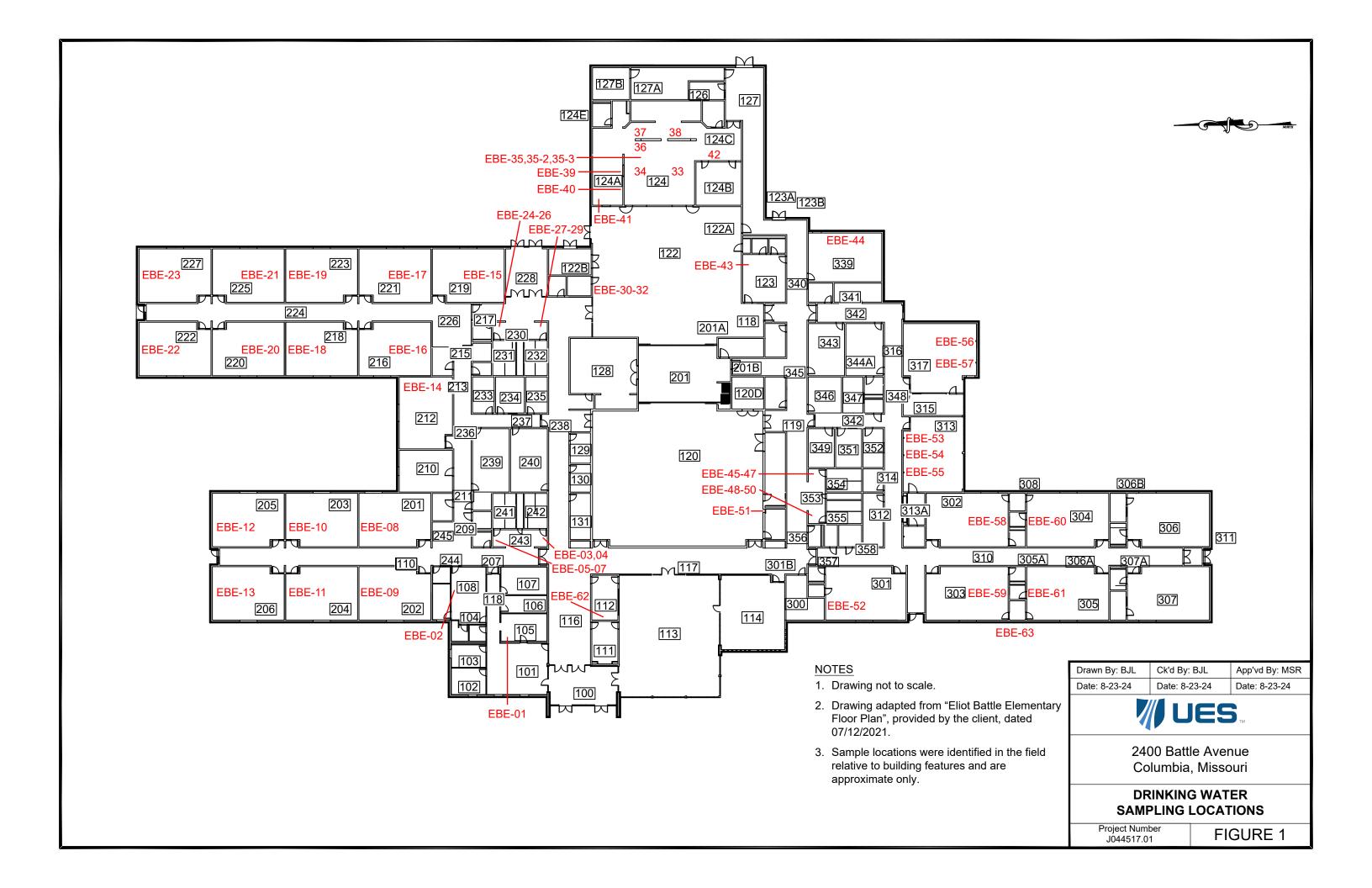
Very truly yours,

UES

Bradley J. Lohrum Project Manager

Brookly Jda

BJL/MSR:bjl/jsj





APPENDIX A

CERTIFICATES AND LICENSES OF ENVIRONMENTAL PROFESSIONALS

PUBLIC HEALTH & SOCIAL JUSTICE

SAINT LOUIS UNIVERSITY

CENTER FOR ENVIRONMENTAL EDUCATION AND TRAINING

verifies that

Bradley Lohrum

817 S Sappington Road, Crestwood, MO 63126

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

Lead Risk Assessor Refresher

St. Louis, MO

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

Examination Date: 12/12/2022

CEUs: 0.8

Christopher C. King PhD

Director, Center for Environmental Education and Training

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

Center for Environmental Education and Training, 3545 Lafayette, St. Louis, MO 63104 (314) 977-8256 sh.edu/x39753.xml

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

LEAD OCCUPATION LICENSE REGISTRATION

Issued to:

Bradley J. Lohrum

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

Lead Risk Assessor
Category of License

Issuance Date: 1/20/2023
Expiration Date: 1/20/2025

License Number: 230120-300006460

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

Davea I. Nichel

COLLEGE FOR PUBLIC HEALTH & SOCIAL JUSTICE

SAINT LOUIS UNIVERSITY

CENTER FOR ENVIRONMENTAL EDUCATION AND TRAINING

verifies that

Seth Lamble

12040 Chaparral Drive, Bridgeton, Missouri 63044

contact hours of training and successfully passed an examination has attended

Lead Inspector Refresher

St. Louis, MO

Certificate #

CEET 315

1/4/2022

118633

Examination Date:

CEUs: 0.8

1/4/2022

Director, Center for Environmental **Education and Training**

Christopher C. King PhD

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: 4/25/2022 Expiration Date: 4/25/2024

License Number: 160425-300004897

Paula F. Nickelson Acting Director

Daves I. Nichels

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: Eliot Battle Elementary

Project Number: J044517.01

Address: 2400 Battle Avenue

Columbia, Missouri

Sample ID	Fixture Type	Location	Flushed By - Date - Time	Sampled By - Date - Time
EBE-01	S	Room 105	SPL - 2/8/24 - 17:05	SPL - 2/9/24 - 1:22
EBE-02	S	Room 108	SPL - 2/8/24 - 17:07	SPL - 2/9/24 - 1:23
EBE-03	WF	Room 243 South - Left	SPL - 2/8/24 - 17:09	SPL - 2/9/24 - 1:24
EBE-04	WF	Room 243 South - Right	SPL - 2/8/24 - 17:09	SPL - 2/9/24 - 1:24
EBE-05	BF	Room 243 - North	SPL - 2/8/24 - 17:09	BJL - 2/9/24 - 1:24
EBE-06	WF	Room 243 North - Right	SPL - 2/8/24 - 17:09	BJL - 2/9/24 - 1:24
EBE-07	WF	Room 243 North - Left	SPL - 2/8/24 - 17:09	SPL - 2/9/24 - 1:24
EBE-08	S	Room 201	SPL - 2/8/24 - 17:11	SPL - 2/9/24 - 1:27
EBE-09	S	Room 202	BJL - 2/8/24 - 17:11	BJL - 2/9/24 - 1:27
EBE-10	S	Room 203	SPL - 2/8/24 - 17:12	SPL - 2/9/24 - 1:29
EBE-11	S	Room 204	BJL - 2/8/24 - 17:12	BJL - 2/9/24 - 1:29
EBE-12	S	Room 205	SPL - 2/8/24 - 17:14	BJL - 2/9/24 - 1:30
EBE-13	S	Room 206	BJL - 2/8/24 - 17:14	SPL - 2/9/24 - 1:30
EBE-14	S	Room 212	SPL - 2/8/24 - 17:16	SPL - 2/9/24 - 1:32
EBE-15	S	Room 219	SPL - 2/8/24 - 17:17	SPL - 2/9/24 - 1:33
EBE-16	S	Room 216	BJL - 2/8/24 - 17:17	SPL - 2/9/24 - 1:34
EBE-17	S	Room 221	SPL - 2/8/24 - 17:18	SPL - 2/9/24 - 1:35
EBE-18	S	Room 218	BJL - 2/8/24 - 17:20	BJL - 2/9/24 - 1:35
EBE-19	S	Room 223	SPL - 2/8/24 - 17:20	SPL - 2/9/24 - 1:36
EBE-20	S	Room 220	BJL - 2/8/24 - 17:21	SPL - 2/9/24 - 1:37
EBE-21	S	Room 225	SPL - 2/8/24 - 17:21	SPL - 2/9/24 - 1:38
EBE-22	S	Room 222	BJL - 2/8/24 - 17:22	BJL - 2/9/24 - 1:38
EBE-23	S	Room 227	SPL - 2/8/24 - 17:22	SPL - 2/9/24 - 1:39
EBE-24	BF	Room 230 North	SPL - 2/8/24 - 17:23	SPL - 2/9/24 - 1:41
EBE-25	WF	Room 230 North - Left	SPL - 2/8/24 - 17:23	SPL - 2/9/24 - 1:41

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: Eliot Battle Elementary

Project Number: J044517.01

Address: 2400 Battle Avenue

Columbia, Missouri

Sample ID	Fixture Type	Location	Flushed By - Date - Time	Sampled By - Date - Time
EBE-26	WF	Room 230 North - Right	SPL - 2/8/24 - 17:23	SPL - 2/9/24 - 1:41
EBE-27	BF	Room 230 South	SPL - 2/8/24 - 17:24	BJL - 2/9/24 - 1:42
EBE-28	WF	Room 230 South - Right	SPL - 2/8/24 - 17:24	BJL - 2/9/24 - 1:42
EBE-29	WF	Room 230 - South - Left	SPL - 2/8/24 - 17:24	SPL - 2/9/24 - 1:42
EBE-30	BF	Cafeteria	SPL - 2/8/24 - 17:26	SPL - 2/9/24 - 1:43
EBE-31	WF	Cafeteria - Left	SPL - 2/8/24 - 17:26	SPL - 2/9/24 - 1:43
EBE-32	WF	Cafeteria - Right	SPL - 2/8/24 - 17:26	SPL - 2/9/24 - 1:43
EBE-33	S	Kitchen Steam Table South	SPL - 2/8/24 - 17:31	SPL - 2/9/24 - 1:45
EBE-34	S	Kitchen Steam Table North	SPL - 2/8/24 - 17:31	SPL - 2/9/24 - 1:45
EBE-35	S	Kitchen Food Prep East	SPL - 2/8/24 - 17:31	SPL - 2/9/24 - 1:45
EBE-36	S	Kitchen Food Prep West	SPL - 2/8/24 - 17:31	SPL - 2/9/24 - 1:45
EBE-37	S	Food Prep North	SPL - 2/8/24 - 17:31	SPL - 2/9/24 - 1:45
EBE-38	S	Food Prep South	SPL - 2/8/24 - 17:31	SPL - 2/9/24 - 1:45
EBE-39	S	Kitchen Dish Wash - Center	SPL - 2/8/24 - 17:31	BJL - 2/9/24 - 1:47
EBE-40	S	Kitchen Dish Wash - Right	SPL - 2/8/24 - 17:31	BJL - 2/9/24 - 1:47
EBE-41	S	Kitchen Dish Rinse - Right	SPL - 2/8/24 - 17:31	BJL - 2/9/24 - 1:47
EBE-42	ICE	Kitchen	SPL - 2/8/24 - 17:31	SPL - 2/9/24 - 1:48
EBE-43	S	Room 123	SPL - 2/8/24 - 17:34	SPL - 2/9/24 - 1:52
EBE-44	S	Room 339	SPL - 2/8/24 - 17:35	BJL - 2/9/24 - 1:54
EBE-45	BF	Room 353 East	SPL - 2/8/24 - 17:37	SPL - 2/9/24 - 1:58
EBE-46	WF	Room 353 East - Right	SPL - 2/8/24 - 17:37	SPL - 2/9/24 - 1:58
EBE-47	WF	Room 353 East - Left	SPL - 2/8/24 - 17:37	SPL - 2/9/24 - 1:58
EBE-48	BF	Room 353 West	SPL - 2/8/24 - 17:38	SPL - 2/9/24 - 2:00
EBE-49	WF	Room 353 West - Left	SPL - 2/8/24 - 17:38	SPL - 2/9/24 - 2:00
EBE-50	WF	Room 353 West - Right	SPL - 2/8/24 - 17:38	SPL - 2/9/24 - 2:00

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: Eliot Battle Elementary

Project Number: J044517.01

Address: 2400 Battle Avenue

Columbia, Missouri

Sample ID	Fixture Type	Location	Flushed By - Date - Time	Sampled By - Date - Time
EBE-51	WF	Gym	SPL - 2/8/24 - 17:40	SPL - 2/9/24 - 2:02
EBE-52	S	Room 301	SPL - 2/8/24 - 17:41	SPL - 2/9/24 - 2:03
EBE-53	S	Room 313 - Left	SPL - 2/8/24 - 17:42	SPL - 2/9/24 - 2:04
EBE-54	S	Room 313 - Center	SPL - 2/8/24 - 17:42	SPL - 2/9/24 - 2:04
EBE-55	S	Room 313 - Right	SPL - 2/8/24 - 17:42	SPL - 2/9/24 - 2:04
EBE-56	S	Room 317 - Left	SPL - 2/8/24 - 17:44	BJL - 2/9/24 - 2:05
EBE-57	S	Room 317 - Right	SPL - 2/8/24 - 17:44	SPL - 2/9/24 - 2:05
EBE-58	S	Room 302	BJL - 2/8/24 - 17:45	BJL - 2/9/24 - 2:07
EBE-59	S	Room 303	SPL - 2/8/24 - 17:45	SPL - 2/9/24 - 2:07
EBE-60	S	Room 304	BJL - 2/8/24 - 17:47	BJL - 2/9/24 - 2:09
EBE-61	S	Room 305	SPL - 2/8/24 - 17:47	SPL - 2/9/24 - 2:09
EBE-62	S	Room 112	SPL - 2/8/24 - 17:51	SPL - 2/9/24 - 2:12
EBE-35-2	S	Kitchen Food Prep East	BJL - 4/11/24 - 18:49	BJL - 4/12/24 - 3:28
EBE-35-3	S	Kitchen Food Prep East	BJL - 6/26/24 - 24:39	BJL - 6/26/24 - 8:39
EBE-63	WF	Exterior West	BJL - 6/26/24 - 24:43	BJL - 6/26/24 - 8:43



APPENDIX C

DRINKING WATER LABORATORY DATA SHEETS



March 08, 2024

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

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

RE: J044517.01 **WorkOrder:** 24020884

Dear Brad Lohrum:

TEKLAB, INC received 50 samples on 2/12/2024 11:20:00 AM 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 A. Hurley

Elizabeth a Hurley

Director of Customer Service

(618)344-1004 ex 33

ehurley@teklabinc.com



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



Report Contents

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Work Order: 24020884

Client Project: J044517.01

Report Date: 08-Mar-24

This reporting package includes the following:

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Chain of Custody	Appended



Definitions

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Work Order: 24020884

Client Project: J044517.01 Report Date: 08-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.

Work Order: 24020884

Client Project: J044517.01 Report Date: 08-Mar-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: 24020884

Report Date: 08-Mar-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: 24020884

Client Project: J044517.01 Report Date: 08-Mar-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		1/31/2025	Collinsville
Missouri	MDNR	00930		10/31/2026	Collinsville
Missouri	MDNR	930		1/31/2025	Collinsville



Laboratory Results

http://www.teklabinc.com/

Client: Geotechnology, Inc. Work Order: 24020884

Client Project: J044517.01 Report Date: 08-Mar-24

Matrix: DRINKING WATER

Sample ID	Client Sample ID	Certification Qual	RL	Result	Units	DF	Date Analyzed	analyzed Date Collected									
EPA 600 4.1.4 Lead	1, 200.8 R5.4, META	ALS BY ICPMS (TOTAL)															
24020884-001	A GES-33	NELAP	1.0	2.4	μg/L	5	03/02/2024 10:27	02/08/2024 5:49									
24020884-002	A GES-34	NELAP	1.0	2.7	µg/L	5	03/02/2024 5:53	02/08/2024 5:49									
24020884-003	A GES-35	NELAP	1.0	4.0	µg/L	5	03/02/2024 5:57	02/08/2024 5:50									
24020884-004	A GES-36	NELAP	1.0	2.4	µg/L	1	03/06/2024 19:08	02/08/2024 5:50									
24020884-005	A GES-37	NELAP	1.0	< 1.0	µg/L	1	03/06/2024 19:11	02/08/2024 5:51									
24020884-006	A GES-38	NELAP	1.0	< 1.0	µg/L	5	03/02/2024 6:02	02/08/2024 5:52									
24020884-007	A GES-39	NELAP	1.0	< 1.0	µg/L	5	03/02/2024 6:06	02/08/2024 5:52									
24020884-008	A GES-40	NELAP	1.0	< 1.0	µg/L	5	03/02/2024 6:10	02/08/2024 5:52									
24020884-009	A GES-41	NELAP	1.0	< 1.0	µg/L	1	03/06/2024 19:15	02/08/2024 5:53									
24020884-010	A GES-42	NELAP	1.0	2.4	µg/L	1	03/06/2024 19:19	02/08/2024 5:53									
24020884-011	A GES-43	NELAP	1.0	< 1.0	µg/L	1	03/06/2024 19:22	02/08/2024 5:54									
24020884-012	A GES-44	NELAP	1.0	< 1.0	µg/L	1	03/06/2024 19:33	02/08/2024 5:56									
24020884-013	A GES-45	NELAP	1.0	< 1.0	µg/L	1	03/07/2024 20:34	02/08/2024 5:56									
24020884-014	A GES-46	NELAP	1.0	< 1.0	µg/L	5	03/02/2024 6:15	02/08/2024 5:56									
24020884-015	A GES-47	NELAP	1.0	< 1.0	µg/L	1	03/06/2024 19:51	02/08/2024 5:58									
24020884-016	A GES-48	NELAP	1.0	< 1.0	µg/L	1	03/06/2024 19:54	02/08/2024 5:58									
24020884-017	A GES-49	NELAP	1.0	1.1	µg/L	1	03/06/2024 19:58	02/08/2024 5:58									
24020884-018	A GES-50	NELAP	1.0	< 1.0	µg/L	1	03/06/2024 20:02	02/08/2024 5:58									
24020884-019	A GES-51	NELAP	1.0	< 1.0	µg/L	1	03/06/2024 20:13	02/08/2024 6:00									
24020884-020	A GES-52	NELAP	1.0	3.2	µg/L	5	03/02/2024 6:19	02/08/2024 6:01									
24020884-021	A GES-53	NELAP	1.0	4.4	µg/L	5	03/02/2024 6:23	02/08/2024 6:01									
24020884-022	A GES-54	NELAP	1.0	< 1.0	µg/L	1	03/06/2024 22:17	02/08/2024 6:02									
24020884-023	A GES-55	NELAP	1.0	2.0	µg/L	1	03/06/2024 22:21	02/08/2024 6:02									
24020884-024	A TMP-02-2	NELAP	1.0	< 1.0	µg/L	1	03/06/2024 22:24	02/08/2024 16:46									
24020884-025	A EBE-01	NELAP	1.0	< 1.0	μg/L	1	03/06/2024 22:28	02/09/2024 1:22									
24020884-026	A EBE-02	NELAP	1.0	< 1.0	μg/L	1	03/06/2024 22:32	02/09/2024 1:23									
24020884-027	A EBE-03	NELAP	1.0	< 1.0	μg/L	1	03/06/2024 22:43	02/09/2024 1:24									
24020884-028	A EBE-04	NELAP	1.0	< 1.0	μg/L	1	03/06/2024 22:46	02/09/2024 1:24									
24020884-029	A EBE-05	NELAP	1.0	< 1.0	μg/L	1	03/06/2024 23:01	02/09/2024 1:24									
24020884-030	A EBE-06	NELAP	1.0	< 1.0	μg/L	1	03/06/2024 23:05	02/09/2024 1:24									
24020884-031	A EBE-07	NELAP	1.0	< 1.0	μg/L	1	03/06/2024 23:08	02/09/2024 1:24									
24020884-032	A EBE-08	NELAP	1.0	< 1.0	μg/L	1	03/06/2024 23:12	02/09/2024 1:27									
24020884-033	A EBE-09	NELAP	1.0	< 1.0	μg/L	1	03/06/2024 23:16	02/09/2024 1:27									
24020884-034	A EBE-10	NELAP	1.0	< 1.0	μg/L	1	03/06/2024 23:19	02/09/2024 1:29									
24020884-035	A EBE-11	NELAP	1.0	< 1.0	μg/L	1	03/06/2024 23:23	02/09/2024 1:29									
24020884-036	A EBE-12	NELAP	1.0	< 1.0	μg/L	1	03/06/2024 23:27	02/09/2024 1:30									
24020884-037	A EBE-13	NELAP	1.0	< 1.0	μg/L	1	03/06/2024 23:49	02/09/2024 1:30									
24020884-038	A EBE-14	NELAP	1.0	< 1.0	μg/L	1	03/06/2024 23:52	02/09/2024 1:32									
24020884-039	A EBE-15	NELAP	1.0	< 1.0	μg/L	1	03/06/2024 23:56	02/09/2024 1:33									
24020884-040	A EBE-16	NELAP	1.0	< 1.0	μg/L	1	03/07/2024 0:00	02/09/2024 1:34									
24020884-041	A EBE-17	NELAP	1.0	< 1.0	μg/L	1	03/06/2024 20:16	02/09/2024 1:35									
24020884-042	A EBE-18	NELAP	1.0	< 1.0	μg/L	1	03/06/2024 20:20	02/09/2024 1:35									
24020884-043		NELAP	1.0	< 1.0	μg/L	1	03/06/2024 20:24	02/09/2024 1:36									
24020884-044	A EBE-20	NELAP	1.0	< 1.0	μg/L	1	03/06/2024 20:38	02/09/2024 1:37									
24020884-045		NELAP	1.0	< 1.0	μg/L	1	03/06/2024 20:42	02/09/2024 1:38									
24020884-046		NELAP	1.0	< 1.0	μg/L	1	03/06/2024 20:53	02/09/2024 1:38									
24020884-047		NELAP	1.0	< 1.0	μg/L	1	03/06/2024 20:57	02/09/2024 1:39									
24020884-048		NELAP	1.0	< 1.0	μg/L	1	03/06/2024 21:00	02/09/2024 1:41									



Laboratory Results

http://www.teklabinc.com/

Client: Geotechnology, Inc. Work Order: 24020884

Client Project: J044517.01 Report Date: 08-Mar-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								
24020884-049	A EBE-25	NELAP	1.0	< 1.0	μg/L	1	03/06/2024 21:04	02/09/2024 1:41
24020884-050	OA EBE-26	NELAP	1.0	< 1.0	μg/L	1	03/06/2024 21:08	02/09/2024 1:41



Water - pH acceptable upon receipt?

NPDES/CWA TCN interferences checked/treated in the field?

Receiving Check List

http://www.teklabinc.com/

Work Order: 24020884 Client: Geotechnology, Inc. Client Project: J044517.01 Report Date: 08-Mar-24 Carrier: Craig McKinney Received By: AMD Completed by: moor Oleanc Reviewed by: On: On: 12-Feb-24 12-Feb-24 Amber Dilallo 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 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 Yes **~** No Sufficient sample volume for indicated test? **~** 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 🗹

Yes

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

No 🗌

No 🗀

NA 🗸

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

CHAIN OF CUSTODY

pg. 13 of 23 Work order # 24020884

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

Client:	Geotechnology, L	LC			Sam	ples on:	ICI	E BLUEICE MOI	CE °C LTG#
Address:	11816 Lackland F	Road			Pres	erved in	: 💹 LA	B FIELD	FOR LAB USE ONLY
City / State	/ Zip St. Louis, MO 63	1146			Lab	Notes			
Contact:	Brad Lohrum	Phone	e: (314) 9	997-7440					
E-Mail:	blohrum@teamues.com	Fax:			Clien	Comm	ents:		
Are these sample: Are there any requ	s known to be hazardous?	met on the requested analys		Yes X No					
Project	Name/Number	Sample Co	llector's N	ame	М	ATRIX			ANALYSIS REQUESTED
J04	14517.01	Brad L	ohrum		말	SS	อิ		
Result	s Requested	Billing Instructions	# and Type	of Containers		Slu	- Lead		
Cther	1-2 Day (100% Surcharge) 3 Day (50% Surcharge)		NaOH HNO3	NaHSO4 MeOH HCL	Drinking Water Aqueous	Special Waste Sludge	Groundwater		
Lab Use Only	Sample Identification	Date/Time Sampled	ES 3 ±	¥ ¥ 8	ter	ਿੰਦ	9 0		
24020554	GES-53	2/5/24 6:01	1		Х		X		
622	GFS- 54	6:02	1		X		×		
023	G85-55		1		X		X		
024	TMP-02-2	2/8/24 16:46	1		X		X		
025	EBE-01	2/9/124 1:22	1		X		X		
020	EBE-02	1:23	1		X		×		
027	1 03	1:24	1		X		X		
028	CY		1		X		X		
029	05		1		X		X		
()ડેંે	+ 06	<u> </u>	1		X		X		
	Relinguished By		Date/Tim				Rece	ived By	Date/Time
Supl	W D	2/12	24	1015	Um	Ou d	De	louis	2/12/24 1015 2/11/14 1120

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. 14 of 23 Work order # 24020884

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

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Client:		Geotechnology, LI	.C										_ =										<u> </u>	O ICI				_ °(_	LTG	#		_
Address:		11816 Lackland R	oad											Pre	se	rve	d in		LAB		FIELD				FC	RL	AB I	<u>JSE</u>	ONL	<u>-Y</u>			
City / State	/ Zip	St. Louis, MO 631	46										-	Lat	N c	ote	s																
Contact:	Brad Lo	ohrum			Phone	: :	(3	314)	997	-744	10		_																				
	blohrur	n@teamues.com			Fax:								-	Clie	nt (Cor	nme	ent	s:	•			,										
		L. E. Y					1			Van	. 5			٠٠	•••			•	•														
		to be involved in lit to be hazardous?				Will	appi	у	u	165	· 12	7 140																					
Are there any requ	ired rep	porting limits to be nation.	net on the			is?.	If ye	s, p	leas	e pr	ovide	;																					
Project I	Name	Number		San	nple Col	lec	tor	's N	lan	ne			T		MΑ	TR	Χ					INDI	CAT	EΑ	NAL	YSI	S RI	ΞQU	EST	ED			
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Other	3 Da	ay (50% Surcharge)				Ž	NH	Nao	H2S(동	Me la	DIA HIO	sno	Drinking Water	=	ge	Special Waste	Groundwater	1 E2		-												
Lab Use Only	Sam	ple Identification	Date	e/Time S	Sampled	ES	and HNO3	I	¥	,	Ŧ Ş	2 %		ter			हिं	er	E200.8														
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BottleOrder:



CHAIN OF CUSTODY

pg. 15 of 23 Work order #24020884

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

																															-		
Client:	Geotechnology, LLC								Samples on: ICE BLUE ICE NO ICE CLTG#																								
Address:		11816 Lackland Road								Preserved in: AB FIELD FOR LAB USE ONLY																							
City / State	/ Zip	St. Louis, MO 63	, MO 63146							_	Lab Notes																						
Contact:	Brad Lohrum		Phone: (314) 997-7440																														
E-Mail:	blohrum	n@teamues.com	Fax:	****				_	Client Comments:																								
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BottleOrder:





March 08, 2024

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

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

RE: J044517.01 **WorkOrder:** 24020885

Dear Brad Lohrum:

TEKLAB, INC received 50 samples on 2/12/2024 11:20:00 AM 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 A. Hurley

Director of Customer Service

(618)344-1004 ex 33

ehurley@teklabinc.com

Elizabeth a Hurley



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



Report Contents

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Work Order: 24020885

Client Project: J044517.01

Report Date: 08-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/

Report Date: 08-Mar-24

Client: Geotechnology, Inc. Work Order: 24020885

Abbr Definition

Client Project: J044517.01

- * 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: 24020885

Client Project: J044517.01 Report Date: 08-Mar-24

- 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)

Qualifiers

- # 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
 - S Spike Recovery outside recovery limits
- X Value exceeds Maximum Contaminant Level



Case Narrative

http://www.teklabinc.com/

Work Order: 24020885

Report Date: 08-Mar-24

Client: Geotechnology, Inc.

Client Project: J044517.01

Cooler Receipt Temp: NA °C

Locations

	Collinsville		Springfield	Kansas City			
Address	ddress 5445 Horseshoe Lake Road		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: 24020885

Client Project: J044517.01 Report Date: 08-Mar-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		1/31/2025	Collinsville
Missouri	MDNR	00930		10/31/2026	Collinsville
Missouri	MDNR	930		1/31/2025	Collinsville



Laboratory Results

http://www.teklabinc.com/

Client: Geotechnology, Inc. Work Order: 24020885

Client Project: J044517.01 Report Date: 08-Mar-24

Matrix: DRINKING WATER

	DRINKING WAI		DI	D14	TT \$4	DE	D-4- AlI	D-4- C-II4-I
-	Client Sample ID	Certification Qual	RL	Result	Units	DF	Date Analyzed	Date Collected
	200.8 R5.4, META	LS BY ICPMS (TOTAL)						
Lead	EDE 07	NELAD	1.0				00/00/0004 00 00	00/00/0004 4 40
24020885-001A	EBE-27	NELAP	1.0	< 1.0	μg/L	1	03/06/2024 20:30	02/09/2024 1:42
24020885-002A	EBE-28	NELAP	1.0	< 1.0	μg/L	1	03/06/2024 20:34	02/09/2024 1:42
24020885-003A	EBE-29	NELAP	1.0	< 1.0	μg/L	1	03/06/2024 20:38	02/09/2024 1:42
24020885-004A	EBE-30	NELAP	1.0	< 1.0	μg/L	1	03/06/2024 21:09	02/09/2024 1:43
24020885-005A	EBE-31	NELAP	1.0	< 1.0	μg/L	1	03/06/2024 20:43	02/09/2024 1:43
24020885-006A	EBE-32	NELAP	1.0	< 1.0	μg/L	1	03/06/2024 21:13	02/09/2024 1:43
24020885-007A	EBE-33	NELAP	1.0	< 1.0	μg/L	1	03/06/2024 21:17	02/09/2024 1:45
24020885-008A	EBE-34	NELAP	1.0	2.1	μg/L	5	03/02/2024 6:41	02/09/2024 1:45
24020885-009A	EBE-35	NELAP	1.0	24.7	μg/L	1	03/06/2024 21:22	02/09/2024 1:45
24020885-010A	EBE-36	NELAP	1.0	< 1.0	μg/L	1	03/06/2024 21:26	02/09/2024 1:45
24020885-011A	EBE-37	NELAP	1.0	< 1.0	μg/L "	1	03/06/2024 21:30	02/09/2024 1:45
24020885-012A	EBE-38	NELAP	1.0	1.3	μg/L "	1	03/06/2024 21:35	02/09/2024 1:45
24020885-013A	EBE-39	NELAP	1.0	< 1.0	μg/L	1	03/06/2024 21:39	02/09/2024 1:47
24020885-014A	EBE-40	NELAP	1.0	< 1.0	μg/L	1	03/06/2024 21:43	02/09/2024 1:47
24020885-015A	EBE-41	NELAP	1.0	2.8	μg/L	1	03/06/2024 21:48	02/09/2024 1:47
24020885-016A	EBE-42	NELAP	1.0	< 1.0	μg/L	1	03/07/2024 20:25	02/09/2024 1:48
24020885-017A	EBE-43	NELAP	1.0	1.6	μg/L	1	03/06/2024 22:05	02/09/2024 1:52
24020885-018A	EBE-44	NELAP	1.0	< 1.0	μg/L	1	03/06/2024 22:09	02/09/2024 1:54
24020885-019A	EBE-45	NELAP	1.0	< 1.0	μg/L	1	03/06/2024 22:14	02/09/2024 1:58
24020885-020A	EBE-46	NELAP	1.0	< 1.0	μg/L	1	03/06/2024 22:18	02/09/2024 1:58
24020885-021A	EBE-47	NELAP	1.0	< 1.0	μg/L	1	03/07/2024 17:04	02/09/2024 1:58
24020885-022A	EBE-48	NELAP	1.0	< 1.0	μg/L	1	03/07/2024 16:48	02/09/2024 2:00
24020885-023A	EBE-49	NELAP	1.0	< 1.0	μg/L	1	03/07/2024 16:52	02/09/2024 2:00
24020885-024A	EBE-50	NELAP	1.0	< 1.0	μg/L	1	03/07/2024 16:56	02/09/2024 2:00
24020885-025A	EBE-51	NELAP	1.0	< 1.0	μg/L	1	03/07/2024 17:00	02/09/2024 2:02
24020885-026A	EBE-52	NELAP	1.0	< 1.0	μg/L	1	03/07/2024 17:29	02/09/2024 2:03
24020885-027A	EBE-53	NELAP	1.0	< 1.0	μg/L	1	03/07/2024 17:33	02/09/2024 2:04
24020885-028A	EBE-54	NELAP	1.0	< 1.0	μg/L	1	03/07/2024 17:37	02/09/2024 2:04
24020885-029A	EBE-55	NELAP	1.0	< 1.0	μg/L	1	03/07/2024 17:41	02/09/2024 2:04
24020885-030A	EBE-56	NELAP	1.0	< 1.0	μg/L	1	03/07/2024 17:58	02/09/2024 2:05
24020885-031A	EBE-57	NELAP	1.0	< 1.0	μg/L	1	03/07/2024 17:45	02/09/2024 2:05
24020885-032A	EBE-58	NELAP	1.0	1.1	μg/L	1	03/07/2024 17:49	02/09/2024 2:07
24020885-033A	EBE-59	NELAP	1.0	1.2	μg/L	1	03/07/2024 17:54	02/09/2024 2:07
24020885-034A	EBE-60	NELAP	1.0	< 1.0	μg/L	1	03/07/2024 18:22	02/09/2024 2:09
24020885-035A	EBE-61	NELAP	1.0	1.5	μg/L	1	03/07/2024 18:26	02/09/2024 2:09
24020885-036A	EBE-62	NELAP	1.0	< 1.0	μg/L	1	03/07/2024 18:31	02/09/2024 2:12
24020885-037A		NELAP	1.0	< 1.0	µg/L	1	03/07/2024 18:35	02/09/2024 2:30
24020885-038A	LSE-02	NELAP	1.0	< 1.0	µg/L	1	03/07/2024 18:39	02/09/2024 2:31
24020885-039A	LSE-03	NELAP	1.0	< 1.0	µg/L	1	03/07/2024 18:43	02/09/2024 2:34
24020885-040A		NELAP	1.0	< 1.0	µg/L	1	03/07/2024 18:47	02/09/2024 2:34
24020885-041A		NELAP	1.0	< 1.0	μg/L	1	03/07/2024 8:08	02/09/2024 2:34
24020885-042A	LSE-06	NELAP	1.0	5.8	μg/L	1	03/07/2024 8:19	02/09/2024 2:37
24020885-043A		NELAP	1.0	6.9	µg/L	1	03/07/2024 8:23	02/09/2024 2:37
		NELAP	1.0	< 1.0	µg/L	1	03/07/2024 8:26	02/09/2024 2:37
24020885-045A		NELAP	1.0	1.6	µg/L	1	03/07/2024 8:30	02/09/2024 2:37
24020885-046A		NELAP	1.0	10.0	µg/L	5	03/02/2024 6:45	02/09/2024 2:38
24020885-047A		NELAP	1.0	2.4	µg/L	1	03/07/2024 8:34	02/09/2024 2:40
24020885-048A	LSE-12	NELAP	1.0	1.8	µg/L	1	03/07/2024 8:37	02/09/2024 2:40



Laboratory Results

http://www.teklabinc.com/

Client: Geotechnology, Inc. Work Order: 24020885

Client Project: J044517.01 Report Date: 08-Mar-24

Matrix: DRINKING WATER

Sample ID	Client Sample ID	Certification Qu	al RL	Result	Units	DF	Date Analyzed	Date Collected
	4, 200.8 R5.4, META	LS BY ICPMS (TOT	AL)					
Lead								
24020885-049	A LSE-13	NELAP	1.0	1.4	μg/L	1	03/07/2024 8:41	02/09/2024 2:42
24020885-050	A LSE-14	NELAP	1.0	< 1.0	µg/L	1	03/07/2024 8:56	02/09/2024 2:42



Chain of custody signed when relinquished and received?

Receiving Check List

http://www.teklabinc.com/

Work Order: 24020885 Client: Geotechnology, Inc. Client Project: J044517.01 Report Date: 08-Mar-24 Carrier: Craig McKinney Received By: AMD Completed by: moor Oleanc Reviewed by: On: On: 12-Feb-24 12-Feb-24 Amber Dilallo 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 L Yes

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 Yes **~** No Sufficient sample volume for indicated test? **~** 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 🗀

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.

pg. 16 of 23 Work order # 24020 8 85

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

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Client:	Geotechnology,	LLC											-				ICE		BLUI	E ICE	A	NO IC		\triangle	V/	4	C C	LTG	#		
Address:	11816 Lackland	Road										Pre	ser	vec	ni t	:鬨	LAB	30	FIEL	D			FC	OR L	<u>.AB I</u>	<u>USE</u>	ON	<u>Y</u>			
City / State	/ Zip St. Louis, MO 63	3146										Lab	No	otes	5	1															
Contact:	Brad Lohrum		_ Phone	: :	(3	14)	997-7	744	0																						
E-Mail:	blohrum@teamues.com		_ Fax:		_						. [Clier	nt (Con	ame	nts	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

pg. 17 of 73 Work order # 24020885

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

Client		Geotechnology, L	LC											s	am	ple	s o	n:		ICE	S	LUE	CE	M V	O IC	E			_ 0	,C	LT	S#		
Client: Address:		11816 Lackland R											-	•							■ F						R L	AB	USE	ON	<u>LY</u>			
City / State	/ 7 in	St. Louis, MO 63	146						···········					i i		No																		İ
Contact:	Brad L	ohrum			Phone	? :	(314)	997	-744	10		_																					
E-Mail:	blohrur	n@teamues.com			Fax:		_							CI	ien	t C	om	me	nts	::													June 1	
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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. |8 of 23 Work order # 24020885

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

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Client:	-	Geotechnology, L	LLC												Sa	am	ple:	5 01	n:		ICE	鑁	BLU	E ICE		NO I	CE			0	,C	LTC	#	,,,,,,	
Address:		11816 Lackland F	Road												Pr	es	erv	ed i	n:	S	LAB	32	FIEL	.D			F	<u>OR L</u>	AB	USE	ON	<u>_Y</u>			
City / State	/ Zip	St. Louis, MO 63	3146											_	La	ab l	Not	es																	
Contact:	Brad Lo	ohrum				Phone	e:	(314)	997	-744	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: 80481

31

pg. 19 of 73 Work order # 24020885

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

Client:		Geotechnology, I	LC		··· v									1	Sa	m	oles	on:	***] ICE	200	BLU	E ICE	100	NO I	Œ				C,	LTG:	¥		
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City / State	/ Zip	St. Louis, MO 63	3146												L.a	ıb l	Vote	s																ı
Contact:	Brad L	ohrum				Phone	a :	(314)	997	-744)		_																				
E-Mail:	blohrur	n@teamues.com				Fax:		_						-	Cli	ent	Co	nm	ent	s:														
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BottleOrder.

80481



100226

E-10374

05002

05003

9978

1004652024-2

Illinois

Illinois

Kansas

Louisiana

Louisiana

Oklahoma



May 16, 2024

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

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

RE: J044517.01 **WorkOrder:** 24041267

Dear Brad Lohrum:

TEKLAB, INC received 60 samples on 4/15/2024 12:37:00 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: 24041267

Client Project: J044517.01

Report Date: 16-May-24

This reporting package includes the following:

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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: 24041267

Client Project: J044517.01 Report Date: 16-May-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: 24041267

Client Project: J044517.01 Report Date: 16-May-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: 24041267

Report Date: 16-May-24

Client: Geotechnology, Inc.

Client Project: J044517.01

Cooler Receipt Temp: N/A °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: 24041267

Client Project: J044517.01 Report Date: 16-May-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	6/30/2024	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2024	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		6/1/2024	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: 24041267

Client Project: J044517.01 Report Date: 16-May-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)						
24041267-001A	EBE-35-2	NELAP	1.0	9.8	μg/L	1	05/10/2024 15:55	04/12/2024 3:28
24041267-002A	TMP-16-2	NELAP	1.0	1.5	µg/L	1	05/10/2024 15:59	04/12/2024 3:42
24041267-003A	HHS-01	NELAP	1.0	< 1.0	µg/L	1	05/10/2024 16:02	04/12/2024 4:15
24041267-004A	HHS-02	NELAP	1.0	< 1.0	µg/L	1	05/10/2024 16:06	04/12/2024 4:15
24041267-005A	HHS-03	NELAP	1.0	< 1.0	µg/L	1	05/10/2024 16:09	04/12/2024 4:15
24041267-006A	HHS-04	NELAP	1.0	< 1.0	µg/L	1	05/10/2024 16:13	04/12/2024 4:15
24041267-007A	HHS-05	NELAP	1.0	< 1.0	µg/L	1	05/10/2024 16:17	04/12/2024 4:15
24041267-008A	HHS-06	NELAP	1.0	< 1.0	µg/L	1	05/10/2024 16:39	04/12/2024 4:25
24041267-009A	HHS-07	NELAP	1.0	< 1.0	µg/L	1	05/10/2024 16:42	04/12/2024 4:27
24041267-010A	HHS-08	NELAP	1.0	< 1.0	μg/L	1	05/10/2024 16:46	04/12/2024 4:27
24041267-011A	HHS-09	NELAP	1.0	< 1.0	μg/L	1	05/10/2024 16:50	04/12/2024 4:31
24041267-012A	HHS-10	NELAP	1.0	< 1.0	μg/L	1	05/10/2024 16:53	04/12/2024 4:31
24041267-013A	HHS-11	NELAP	1.0	< 1.0	μg/L	1	05/10/2024 16:57	04/12/2024 4:34
24041267-014A	HHS-12	NELAP	1.0	< 1.0	μg/L	1	05/10/2024 17:01	04/12/2024 4:34
24041267-015A	HHS-13	NELAP	1.0	< 1.0	μg/L	5	05/15/2024 9:43	04/12/2024 4:34
24041267-016A	HHS-14	NELAP	1.0	< 1.0	μg/L	1	05/10/2024 17:04	04/12/2024 4:36
24041267-017A		NELAP	1.0	< 1.0	μg/L	1	05/10/2024 17:08	04/12/2024 4:36
24041267-018A		NELAP	1.0	< 1.0	μg/L	1	05/13/2024 9:31	04/12/2024 4:38
24041267-019A		NELAP	1.0	5.9	μg/L	1	05/13/2024 9:34	04/12/2024 4:38
24041267-020A		NELAP	1.0	7.8	μg/L	1	05/13/2024 9:38	04/12/2024 4:45
24041267-021A		NELAP	1.0	< 1.0	μg/L	1	05/13/2024 9:42	04/12/2024 4:50
24041267-022A		NELAP	1.0	< 1.0	μg/L	1	05/13/2024 9:45	04/12/2024 4:52
24041267-023A		NELAP	1.0	< 1.0	μg/L	1	05/13/2024 9:49	04/12/2024 4:52
24041267-024A		NELAP	1.0	< 1.0	μg/L	1	05/13/2024 9:53	04/12/2024 4:54
24041267-025A		NELAP	1.0	< 1.0	μg/L	1	05/13/2024 9:56	04/12/2024 4:54
24041267-026A		NELAP	1.0	< 1.0	μg/L	1	05/13/2024 10:00	04/12/2024 4:54
24041267-027A		NELAP	1.0	< 1.0	μg/L	1	05/13/2024 10:04	04/12/2024 4:56
24041267-028A		NELAP	1.0	< 1.0	μg/L	1	05/13/2024 10:26	04/12/2024 4:58
24041267-029A		NELAP	1.0	36.5	µg/L	1	05/13/2024 10:29	04/12/2024 5:00
24041267-030A		NELAP	1.0	17.8	µg/L	1	05/13/2024 10:33	04/12/2024 5:01
24041267-031A		NELAP	1.0	4.7	µg/L	1	05/13/2024 10:37	04/12/2024 5:01
24041267-031A		NELAP	1.0	3.9	µg/L	1	05/13/2024 10:40	04/12/2024 5:03
24041267-033A		NELAP	1.0	< 1.0	µg/L	1	05/15/2024 9:29	04/12/2024 5:06
24041267-034A		NELAP	1.0	2.9	µg/L	1	05/13/2024 10:48	04/12/2024 5:07
24041267-035A		NELAP	1.0	2.7	μg/L	1	05/10/2024 17:23	04/12/2024 5:07
24041267-036A		NELAP	1.0	2.2		1	05/10/2024 17:34	04/12/2024 5:10
24041267-037A			1.0		μg/L			
		NELAP		< 1.0	μg/L	1	05/10/2024 17:37	04/12/2024 5:10
24041267-038A		NELAP	1.0	< 1.0	µg/L	1	05/10/2024 17:41	04/12/2024 5:11
24041267-039A		NELAP	1.0	2.3	µg/L	1	05/10/2024 17:45	04/12/2024 5:13
24041267-040A		NELAP	1.0	2.0	µg/L	1	05/10/2024 17:48	04/12/2024 5:14
24041267-041A		NELAP	1.0	< 1.0	µg/L	1	05/10/2024 17:52	04/12/2024 5:14
24041267-042A		NELAP	1.0	4.9	µg/L	1	05/10/2024 17:56	04/12/2024 5:16
24041267-043A		NELAP	1.0	1.6	µg/L	1	05/10/2024 18:10	04/12/2024 5:18
24041267-044A		NELAP	1.0	1.1	µg/L	1	05/10/2024 18:21	04/12/2024 5:19
24041267-045A		NELAP	1.0	< 1.0	µg/L	1	05/10/2024 18:25	04/12/2024 5:21
24041267-046A		NELAP	1.0	2.0	µg/L	1	05/10/2024 18:28	04/12/2024 5:23
24041267-047A		NELAP	1.0	< 1.0	µg/L	5	05/15/2024 10:05	04/12/2024 5:25
24041267-048A	HHS-46	NELAP	1.0	< 1.0	µg/L	1	05/10/2024 18:32	04/12/2024 5:25



Laboratory Results

http://www.teklabinc.com/

Client: Geotechnology, Inc. Work Order: 24041267

Client Project: J044517.01 Report Date: 16-May-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								
24041267-049/	A HHS-47	NELAP	1.0	< 1.0	μg/L	5	05/15/2024 10:09	04/12/2024 5:25
24041267-050	A HHS-48	NELAP	1.0	< 1.0	µg/L	5	05/15/2024 10:13	04/12/2024 5:25
24041267-051	A HHS-49	NELAP	1.0	< 1.0	µg/L	1	05/10/2024 18:36	04/12/2024 5:25
24041267-052	A HHS-50	NELAP	1.0	1.6	µg/L	1	05/10/2024 18:39	04/12/2024 5:25
24041267-053/	A HHS-51	NELAP	1.0	1.1	µg/L	1	05/10/2024 18:43	04/12/2024 5:29
24041267-054	A HHS-52	NELAP	1.0	6.2	µg/L	1	05/09/2024 6:24	04/12/2024 5:30
24041267-055/	A HHS-53	NELAP	1.0	2.4	µg/L	1	05/09/2024 6:27	04/12/2024 5:31
24041267-056	A HHS-54	NELAP	1.0	20.7	µg/L	1	05/09/2024 6:52	04/12/2024 5:32
24041267-057/	A HHS-55	NELAP	1.0	1.1	µg/L	1	05/09/2024 6:55	04/12/2024 5:35
24041267-058/	A HHS-56	NELAP	1.0	< 1.0	µg/L	1	05/09/2024 6:59	04/12/2024 5:38
24041267-059/	A HHS-57	NELAP	1.0	< 1.0	µg/L	1	05/09/2024 7:02	04/12/2024 5:38
24041267-060	A HHS-58	NELAP	1.0	6.9	µg/L	1	05/09/2024 7:06	04/12/2024 5:40



NPDES/CWA TCN interferences checked/treated in the field?

Receiving Check List

http://www.teklabinc.com/

Work Order: 24041267 Client: Geotechnology, Inc. Client Project: J044517.01 Report Date: 16-May-24 Carrier: Employee Received By: LM Completed by: moor Oleanc Reviewed by: On: On: 15-Apr-24 15-Apr-24 Amber Dilallo Ellie Hopkins Extra pages included 0 Pages to follow: Chain of custody Shipping container/cooler in good condition? Yes **✓** 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 🗌 Samples in proper container/bottle? Yes **V** No 🗌 Sample containers intact? Yes Yes **~** No Sufficient sample volume for indicated test? **~** No \square All samples received within holding time? Yes NA 🗸 Field Lab \square 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?

Samples were checked for turbidity and then preserved with nitric acid upon arrival in the laboratory. - amberdilallo - 4/15/2024 2:13:24 PM

Yes

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

No 🗀

NA 🗹

CHAIN OF CUSTODY pg. 1 of 13 Work order # 3404/267

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

Client:	Geotechnology, i	LLC					Sa	mpl	es c	n:	3 10	E BLUEICE NOICE NA °C LTG	#
Address:	11816 Lackland	Road						-				AB FIELD FOR LAB USE ONLY	
City / State	/ Zip St. Louis, MO 63	3146							otes		77		
Contact:	Brad Lohrum	Phon	e: (3 ⁻	14) 997	-7440			D 140	, .	•			
E-Mail:	blohrum@teamues.com	Fax:					CI:-	4 (
ve these sample	s known to be involved in I	itigation? If yes, a surcharge			Yes 🛚	No		HILL	•OIII	ıme	nts:		
	s known to be hazardous?		wiii арріу	L	ies M	INO							
re there any requ	uired reporting limits to be	met on the requested analys	sis?. If yes	, pleas	e provide								
	nent section. Yes	2 0 0 1 2 2 2 00 10 10 10 10 10 10 10 10 10 10 10 10											
-	Name/Number	Sample Co	llector's	Nam	1e			MA.	(RI)	<u> </u>		INDICATE ANALYSIS REQUESTED	
	14517.01	Brad L	ohrum				Pri			နှ	ନ୍ର :		
Result	s Requested 1-2 Day (100% Surcharge)	Billing Instructions	#and	Type of	f Contain	ers	질문		ξ	Ğ.	<u>0</u>		
	3 Day (50% Surcharge)		复표	ᇎᇎ	T ≥ Z	ျှ		Soil	Sludge	<u>\$</u>	ğ.		
			HNO3	호 호	MeOH HCL	ers OTHER	Drinking Water Aqueous		[^a	Special Waste	Groundwater		
Lab Use Only	Sample Identification	Date/Time Sampled			_ ^		딱	<u> </u>		·B			
404/1097	EBE-35-2	4/12/24 3:28	1				X				;		
	TMP-16-2	3:42	1				X						
003	HHS-01	4:15	1				X						
004	H45-02	b-	1				X						
005	1 03		1				X						
	04		1				X				7		
833	05		1				TX						
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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:

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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. Lead	4, 200.8 R5.4, META	ALS BY ICPMS (TOTAL)						
24062353-001	A SMS-01-2	NELAP	1.0	4.6	µg/L	1	07/03/2024 17:08	06/26/2024 15:07
24062353-002	2A SMS-02-2	NELAP	1.0	3.5	µg/L	1	07/03/2024 17:23	06/26/2024 15:08
24062353-003	3A SMS-58-2	NELAP	1.0	7.5	µg/L	1	07/03/2024 17:26	06/26/2024 15:11
24062353-004	A SMS-59-2	NELAP	1.0	3.3	µg/L	1	07/03/2024 17:30	06/26/2024 15:12
24062353-005	5A SMS-60-2	NELAP	1.0	8.7	µg/L	1	07/03/2024 17:34	06/26/2024 15:13
24062353-006	SA SMS-61-2	NELAP	1.0	6.9	μg/L	1	07/03/2024 17:37	06/26/2024 15:14
24062353-007	'A SMS-62-2	NELAP	1.0	7.4	μg/L	1	07/08/2024 22:34	06/26/2024 15:15
24062353-008	3A SMS-74-2	NELAP	1.0	1.9	µg/L	1	07/03/2024 17:52	06/26/2024 15:18
24062353-009	A PKE-66-2	NELAP	1.0	< 1.0	μg/L	1	07/03/2024 17:56	06/26/2024 15:52
24062353-010)A PKE-67-2	NELAP	1.0	< 1.0	μg/L	1	07/03/2024 18:10	06/26/2024 15:52
24062353-011	A PKE-70-2	NELAP	1.0	2.2	μg/L	1	07/03/2024 18:14	06/26/2024 15:55
24062353-012	2A RBE-08-2	NELAP	1.0	1.3	μg/L	1	07/03/2024 18:18	06/26/2024 16:06
24062353-013	3A RBE-11-2	NELAP	1.0	1.6	μg/L	1	07/03/2024 18:21	06/26/2024 16:07
24062353-014		NELAP	1.0	< 1.0	µg/L	1	07/03/2024 18:25	06/26/2024 16:16
24062353-015	SA BRH-82	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 17:40
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
24062353-020		NELAP	1.0	4.6	µg/L	1	07/03/2024 10:01	06/26/2024 18:35
24062353-030		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		1	07/03/2024 20:04	06/26/2024 19:07
24062353-032		NELAP	1.0	6.4	µg/L µg/L	1	07/03/2024 20:12	06/26/2024 19:19
24062353-034		NELAP	1.0	2.7		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			1.0		µg/L	1	07/03/2024 12:33	
24062353-037		NELAP NELAP	1.0	< 1.0	µg/L			06/26/2024 19:56
24062353-037		NELAP	1.0	1.1	µg/L	1	07/03/2024 20:45	06/26/2024 19:57
24062353-036				< 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 24062353-042		NELAP	1.0 1.0	< 1.0	µg/L	1	07/03/2024 20:59 07/05/2024 12:46	06/26/2024 20:10
		NELAP		< 1.0	µg/L	1		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. 5 of 6 Work order # 24062353

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

Client:	Geotechnology, LL	C								1	San	npl	es	on:	300 300	ICE	BLUE	ICE [■ NC	ICE			_ °(2	LTG	#	
Address:	11816 Lackland R																FIELD				OR L	_AB	<u>USE</u>	ONL	<u>.Y</u>		:
City / State	Zip St. Louis, MO 631	46						Lab Notes																			
Contact:	Brad Lohrum	Phone: (314) 997-7440																									
	blohrum@teamues.com	Fax:						.,		c	lier	nt (Cor	nme	ent	s:				· \$5 1 · 2 · 48		<u> y</u>					
Are these samples Are there any requ	known to be hazardous?	net on the requested analys No	is?.	lf ye	s, p	lease	pro	X	No																		· - 350 // / / / / / / / / / / / / / / / / /
Project i	Name/Number	Sample Co	lec	tor	s N	lam	е			L	1	ΝA	TRI	X	1	Ļ		INDIC	AT	E AN	ALYS	IS R	EQU	ESI	EU		
J04	4517.01	Brad Lo									Dr.			qs	ଦ୍	DW											
Results	Requested 1-2 Day (100% Surcharge)	Billing Instructions					Col	ntain	ers	ê ₽	kin	Ş	uls	ecia	l S	Lead											
	3 Day (50% Surcharge)		UNPR	HNO3	NaOF	H2SO	H	NaHSC	의표	Aqueous	Drinking Water	Soil	Sludge	Special Waste	Groundwater	ad E200.8											
Lab Use Only	Sample Identification	Date/Time Sampled	S	w	-4-	4		¥ ±			e			ro	Ť	0,8											
MOD353 W	OMS-40	6/26/248:10	1								X			ļ		X											
-012	0 MS-23-2	8:11	1								X					X				_							
-643	OMS-24-2		1								X					X											
-044	GMS- 29-2	8:13	1								Х				L	X											
-045	EBE-35-3	8:39	1								X			L		X											
-046	EBE-63	8:43									Х				L	X											
-047	BHS-83-2	9:10	1								X					X										-	
-04%	BHS-122-2	9:20	1								Х					X											
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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.