

#### WATER SAMPLING AND REPORTING SERVICES

COLUMBIA PUBLIC SCHOOLS
HICKMAN HIGH SCHOOL
1104 NORTH PROVIDENCE ROAD
COLUMBIA, MISSOURI

Prepared for:

COLUMBIA PUBLIC SCHOOLS
COLUMBIA, MISSOURI

Prepared by:

GEOTECHNOLOGY, LLC, DBA UES St. Louis, Missouri

Date:

**DECEMBER 22, 2024** 

Project No.:

J044517.01

SAFETY TEAMWORK RESPONSIVENESS INTEGRITY VALUE EXCELLENCE



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

December 22, 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 Hickman High School

1104 North Providence Road

Columbia, Missouri Project No. J044517.01

Dear Mr. Seamon:

In accordance with Columbia Public Schools' (CPS) Request for Proposal No. C-24043, dated October 10, 2023, Geotechnology, LLC, dba UES, is pleased to provide this drinking water sampling report for the referenced project. Our scope of services included flushing and sampling of drinking water from potable water outlets, laboratory analysis of water samples, and a letter report.

#### SITE AND PROJECT DESCRIPTION

The subject property consists of the existing Columbia Public Schools Hickman High School, located northeast of the intersection of Wilkes Boulevard and North Providence Road in Columbia, Missouri. The purpose of the drinking water sampling was to identify potable water outlets that may require remediation in accordance with the State of Missouri's *Get the Lead out of School Drinking Water Act* (RSMo 160.077).

#### **DRINKING WATER SAMPLING**

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

In general conformance with the RSMo 160.077 requirements, and the Environmental Protection Agency's (EPA) 3Ts for Reducing Lead in Drinking Water in Schools and Child Care Facilities manual, initial water flushing and sampling activities were conducted on April 11 and 12, 2024, by Mr. Brad Lohrum, a Missouri-licensed lead risk assessor. Copies of Mr. Lohrum's training certificate and lead license are included in Appendix A.



An inventory of potable drinking water outlets was provided to UES by CPS. UES personnel sampled the identified outlets utilizing the EPA's "first-draw" methods. The identified outlets were flushed, then allowed to sit undisturbed for a period of 8-18 hours. Following this stagnation period, the first 250 milliliters (ml) of water expelled from the outlets were collected in laboratory-provided containers. A copy of the drinking water sampling forms, which include a list of sample locations, and the times and dates of flushing and sampling activities, is included in Appendix B. Floor plans depicting approximate sample locations are included as Figures 1-3.

Using standard chain-of-custody procedures, the drinking water samples were submitted to Teklab, Inc. of Collinsville, Illinois, an independent, certified Missouri Department of Natural Resources (MDNR) Drinking Water and National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory, for analysis of lead content via EPA Method 200.8: Determination of Trace Elements in Waters and Wastes by Inductively Coupled Plasma-Mass Spectrometry.

#### **RESULTS**

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

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

Sample Number / Location and Fixture Type	Results
HHS-17 / Concession Hand Wash Sink	5.9 ppb
HHS-18 / Room 144L Water Fountain	7.8 ppb
HHS-27 / Room 109 Northwest Sink	36.5 ppb
HHS-28 / Room 112 Northwest Sink	17.8 ppb
HHS-52 / Room 51 Sink	6.2 ppb
HHS-54 / Room 50 Sink	20.7 ppb
HHS-58 / Room 220-O Sink	6.9 ppb
HHS-64 / Room 209-O Sink	37.3 ppb
HHS-84 / Room 170 Dish Wash Sink	12.3 ppb

UES personnel resampled one client-designated outlet on June 26, 2024 (HHS-18-2). Laboratory analysis of the collected sample did not detect the presence of lead at or above 5 ppb.

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



#### **RECOMMENDATIONS**

Our recommendations are summarized below:

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

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

The following attachments are included in and complete this report:

Figure 1 - Drinking Water Sample Locations – Basement
 Figure 2 - Drinking Water Sample Locations – First Floor
 Figure 3 - Drinking Water Sample Locations – Second Floor
 Appendix A - Certificate and License of Environmental Professional

Appendix B - Drinking Water Sampling Forms

Appendix C - Drinking Water Laboratory Data Sheets

Appendix D - Limitations of Report

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

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

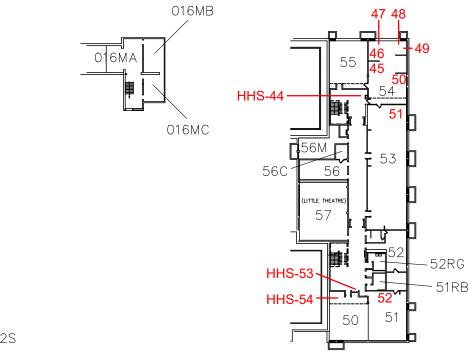
Very truly yours,

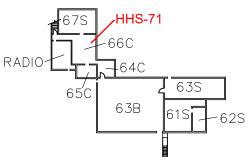
**UES** 

Bradley J. Lohrum Project Manager

BJL/MSR:bjl/jsj







## <u>NOTES</u>

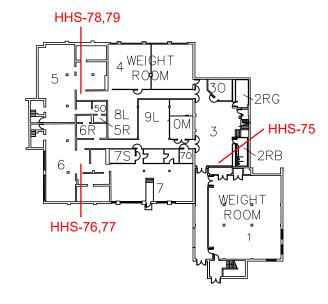
1. Drawing not to scale.

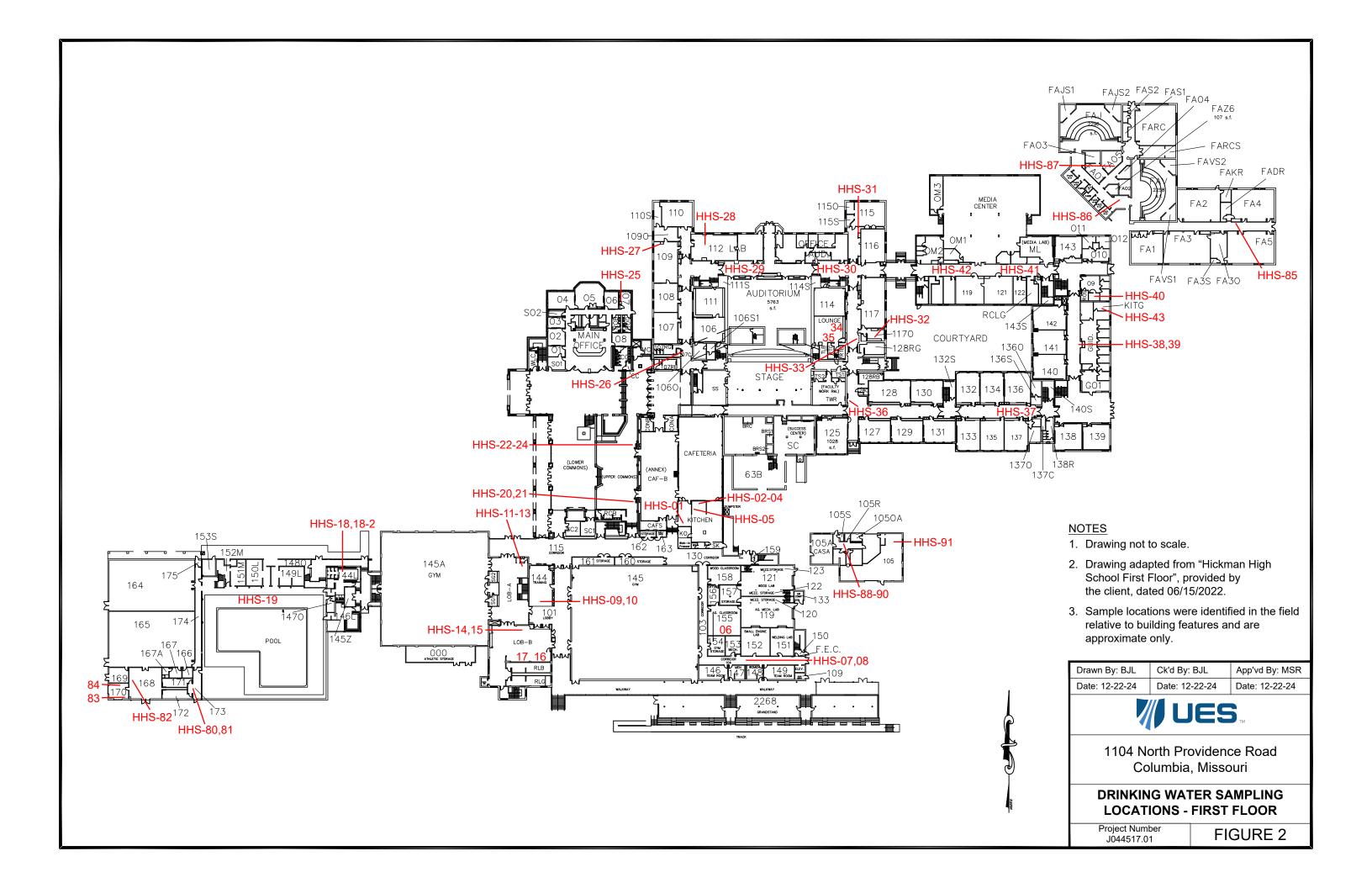
Project Number J044517.01

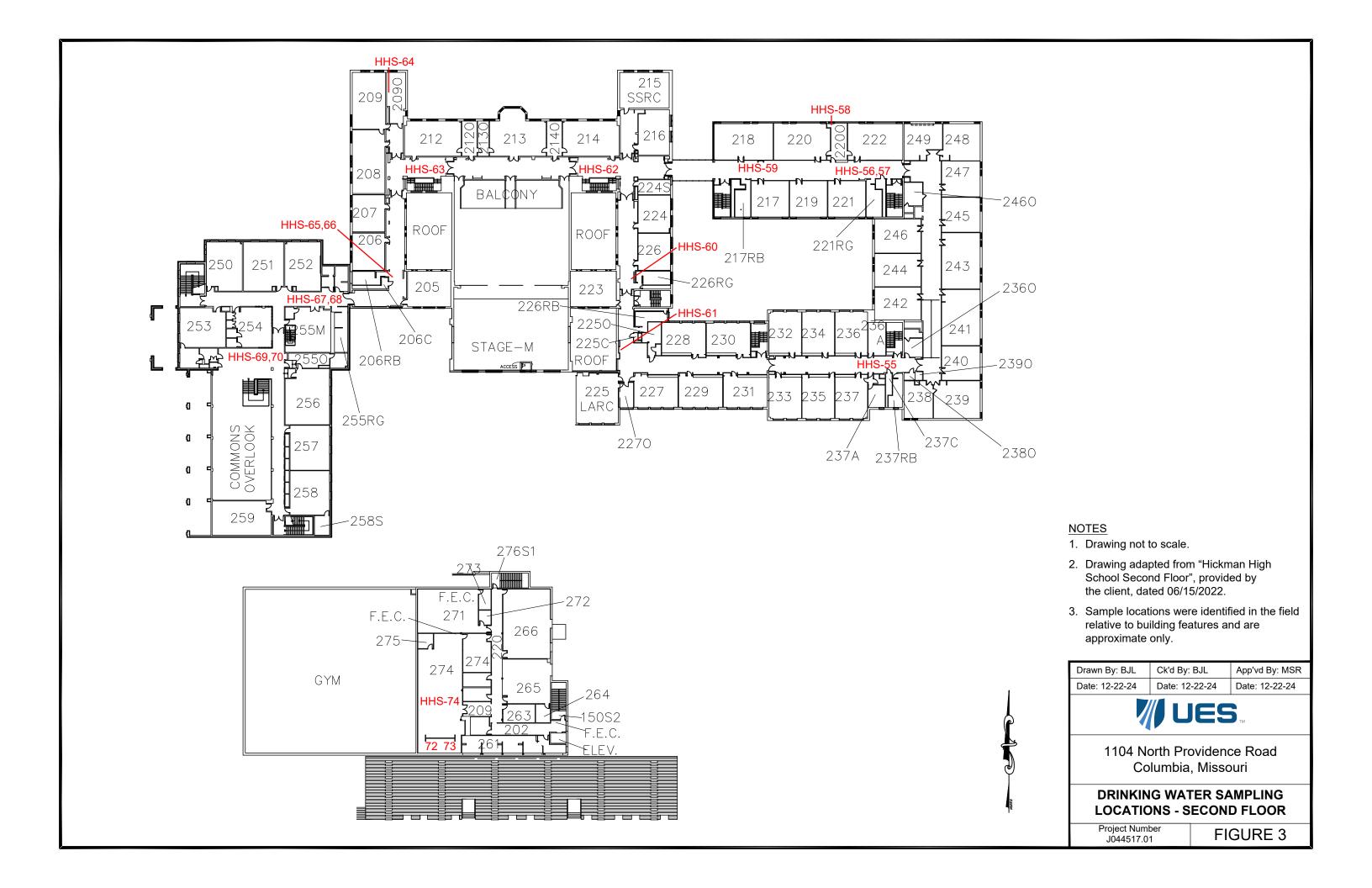
- 2. Drawing adapted from "Hickman High School Basement", provided by the client, dated 06/15/2022.
- Sample locations were identified in the field relative to building features and are approximate only.

Drawn By: BJL	Ck'd By: BJL	App'vd By: MSR					
Date: 12-22-24	Date: 12-22-24	Date: 12-22-24					
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	G WATER SATIONS - BASE	_					

FIGURE 1









#### **APPENDIX A**

CERTIFICATE AND LICENSE OF ENVIRONMENTAL PROFESSIONAL

# 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.

## STATE OF MISSOURI DEPARTMENT OF HEALTH AND SENIOR SERVICES

## **LEAD OCCUPATION LICENSE REGISTRATION**

Issued to:

# Bradley J. Lohrum

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

Lead Risk Assessor
Category of License

Issuance Date: 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

# STATE OF MISSOURI DEPARTMENT OF HEALTH AND SENIOR SERVICES

## **Lead Abatement Contractor License**

The person, firm or corporation whose name appears on this certificate is licensed as a Lead Abatement Contractor as set forth in the Missouri Revised Statutes 701.300-701.338 and 19 CSR 30-70.180, as long as not suspended or revoked, and is hereby authorized to engage in lead-bearing substance activities.

Issued to:

# Geotechnology LLC (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** 



Project Name: Columbia Public Schools Water

Sampling and Reporting Services

Building Name: Hickman High School

Project Number: J044517.01

Address: 1104 North Providence Road

Columbia, Missouri

Sample ID	Fixture Type	Location	Flushed By - Date - Time	Sampled By - Date - Time
HHS-01	S	Kitchen - Food Prep	BJL - 4/11/24 - 19:40	BJL - 4/12/24 - 4:15
HHS-02	S	Kitchen - Dish Wash - Left	BJL - 4/11/24 - 19:40	BJL - 4/12/24 - 4:15
HHS-03	S	Kitchen - Dish Wash - Center	BJL - 4/11/24 - 19:40	BJL - 4/12/24 - 4:15
HHS-04	S	Kitchen - Dish Wash - Right	BJL - 4/11/24 - 19:40	BJL - 4/12/24 - 4:15
HHS-05	ICE	Kitchen	BJL - 4/11/24 - 19:40	BJL - 4/12/24 - 4:15
HHS-06	ICE	Room 155	BJL - 4/11/24 - 19:45	BJL - 4/12/24 - 4:25
HHS-07	WF	Corridor 104 - Left	BJL - 4/11/24 - 19:50	BJL - 4/12/24 - 4:27
HHS-08	WF	Corridor 104 - Right	BJL - 4/11/24 - 19:50	BJL - 4/12/24 - 4:27
HHS-09	S	Room 144	BJL - 4/11/24 - 19:55	BJL - 4/12/24 - 4:31
HHS-10	ICE	Room 144	BJL - 4/11/24 - 19:55	BJL - 4/12/24 - 4:31
HHS-11	BF	LOB-A - Left	BJL - 4/11/24 - 19:57	BJL - 4/12/24 - 4:34
HHS-12	WF	LOB-A - Left	BJL - 4/11/24 - 19:57	BJL - 4/12/24 - 4:34
HHS-13	WF	LOB-A - Right	BJL - 4/11/24 - 19:57	BJL - 4/12/24 - 4:34
HHS-14	WF	LOB-B - Left	BJL - 4/11/24 - 19:59	BJL - 4/12/24 - 4:36
HHS-15	WF	LOB-B - Right	BJL - 4/11/24 - 19:59	BJL - 4/12/24 - 4:36
HHS-16	S	Concession Dish Wash	BJL - 4/11/24 - 20:01	BJL - 4/12/24 - 4:38
HHS-17	S	Concession Hand Wash	BJL - 4/11/24 - 20:01	BJL - 4/12/24 - 4:38
HHS-18	WF	Room 144L	BJL - 4/11/24 - 20:08	BJL - 4/12/24 - 4:45
HHS-19	WF	Swimming Pool	BJL - 4/11/24 - 20:13	BJL - 4/12/24 - 4:50
HHS-20	WF	Upper Commons South - Left	BJL - 4/11/24 - 20:26	BJL - 4/12/24 - 4:52
HHS-21	WF	Upper Commons South - Right	BJL - 4/11/24 - 20:26	BJL - 4/12/24 - 4:52
HHS-22	WF	Upper Commons North - Left	BJL - 4/11/24 - 20:28	BJL - 4/12/24 - 4:54
HHS-23	BF	Upper Commons North - Left	BJL - 4/11/24 - 20:28	BJL - 4/12/24 - 4:54
HHS-24	WF	Upper Commons North - Right	BJL - 4/11/24 - 20:28	BJL - 4/12/24 - 4:54
HHS-25	S	Room 07	BJL - 4/11/24 - 20:31	BJL - 4/12/24 - 4:56

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: Hickman High School

Project Number: J044517.01

Address: 1104 North Providence Road

Columbia, Missouri

Sample ID	Fixture Type	Location	Flushed By - Date - Time	Sampled By - Date - Time
HHS-26	WF	Room 107C	BJL - 4/11/24 - 20:34	BJL - 4/12/24 - 4:58
HHS-27	S	Room 109 Northwest	BJL - 4/11/24 - 20:36	BJL - 4/12/24 - 5:00
HHS-28	S	Room 112 Northwest	BJL - 4/11/24 - 20:40	BJL - 4/12/24 - 5:01
HHS-29	WF	Hallway at Room 112	BJL - 4/11/24 - 20:42	BJL - 4/12/24 - 5:01
HHS-30	WF	Hallway at Room 114	BJL - 4/11/24 - 20:43	BJL - 4/12/24 - 5:03
HHS-31	ICE	Room 116 Office	BJL - 4/11/24 - 20:45	BJL - 4/12/24 - 5:06
HHS-32	S	Room 117-O	BJL - 4/11/24 - 20:50	BJL - 4/12/24 - 5:07
HHS-33	WF	Hallway at Room 117-O	BJL - 4/11/24 - 20:51	BJL - 4/12/24 - 5:07
HHS-34	S	Faculty Lounge	BJL - 4/11/24 - 20:53	BJL - 4/12/24 - 5:10
HHS-35	ICE	Faculty Lounge	BJL - 4/11/24 - 20:53	BJL - 4/12/24 - 5:10
HHS-36	WF	Hallway at Room 128C	BJL - 4/11/24 - 20:55	BJL - 4/12/24 - 5:11
HHS-37	WF	Hallway at Room 137	BJL - 4/11/24 - 20:57	BJL - 4/12/24 - 5:13
HHS-38	BF	Hallway at Room 141	BJL - 4/11/24 - 21:00	BJL - 4/12/24 - 5:14
HHS-39	WF	Hallway at Room 141	BJL - 4/11/24 - 21:00	BJL - 4/12/24 - 5:14
HHS-40	S	Nurse's Office	BJL - 4/11/24 - 21:02	BJL - 4/12/24 - 5:16
HHS-41	WF	Hallway at Room 122	BJL - 4/11/24 - 21:04	BJL - 4/12/24 - 5:18
HHS-42	WF	Hallway at Conference Room	BJL - 4/11/24 - 21:05	BJL - 4/12/24 - 5:19
HHS-43	S	KIT G	BJL - 4/11/24 - 21:07	BJL - 4/12/24 - 5:21
HHS-44	WF	Hallway at Room 54	BJL - 4/11/24 - 21:10	BJL - 4/12/24 - 5:23
HHS-45	S	Room 54 Kitchen 1	BJL - 4/11/24 - 20:12	BJL - 4/12/24 - 5:25
HHS-46	S	Room 54 Kitchen 2	BJL - 4/11/24 - 20:12	BJL - 4/12/24 - 5:25
HHS-47	S	Room 54 Kitchen 3	BJL - 4/11/24 - 20:12	BJL - 4/12/24 - 5:25
HHS-48	S	Room 54 Kitchen 4	BJL - 4/11/24 - 20:12	BJL - 4/12/24 - 5:25
HHS-49	S	Room 54 Kitchen 5	BJL - 4/11/24 - 20:12	BJL - 4/12/24 - 5:25
HHS-50	S	Room 54 Kitchen 6	BJL - 4/11/24 - 20:12	BJL - 4/12/24 - 5:25

BF=Bottle Filling
B=Bubbler

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S=Classroom/Other Sink WF=Water Fountain



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Sampling and Reporting Services

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Address: 1104 North Providence Road

Columbia, Missouri

Sample ID	Fixture Type	Location	Flushed By - Date - Time	Sampled By - Date - Time
HHS-51	S	Room 53	BJL - 4/11/24 - 21:15	BJL - 4/12/24 - 5:29
HHS-52	S	Room 51	BJL - 4/11/24 - 21:17	BJL - 4/12/24 - 5:30
HHS-53	WF	Hallway at Room 50	BJL - 4/11/24 - 21:18	BJL - 4/12/24 - 5:31
HHS-54	S	Room 50	BJL - 4/11/24 - 21:19	BJL - 4/12/24 - 5:32
HHS-55	WF	Hallway at Room 237A	BJL - 4/11/24 - 21:22	BJL - 4/12/24 - 5:35
HHS-56	BF	Hallway at Room 222	BJL - 4/11/24 - 21:24	BJL - 4/12/24 - 5:38
HHS-57	WF	Hallway at Room 222	BJL - 4/11/24 - 21:24	BJL - 4/12/24 - 5:38
HHS-58	S	Room 220-O	BJL - 4/11/24 - 21:26	BJL - 4/12/24 - 5:40
HHS-59	WF	Hallway at Room 218	BJL - 4/11/24 - 21:28	BJL - 4/12/24 - 5:41
HHS-60	WF	Hallway at Room 226	BJL - 4/11/24 - 21:30	BJL - 4/12/24 - 5:43
HHS-61	WF	Hallway at Room 225C	BJL - 4/11/24 - 21:31	BJL - 4/12/24 - 5:44
HHS-62	WF	Hallway at Room 214	BJL - 4/11/24 - 21:33	BJL - 4/12/24 - 5:45
HHS-63	WF	Hallway at Room 212	BJL - 4/11/24 - 21:36	BJL - 4/12/24 - 5:46
HHS-64	S	Room 209-O	BJL - 4/11/24 - 21:38	BJL - 4/12/24 - 5:47
HHS-65	BF	Hallway at Room 205	BJL - 4/11/24 - 21:40	BJL - 4/12/24 - 5:49
HHS-66	WF	Hallway at Room 205	BJL - 4/11/24 - 21:40	BJL - 4/12/24 - 5:49
HHS-67	WF	Hallway at Room 255M - Left	BJL - 4/11/24 - 21:41	BJL - 4/12/24 - 5:51
HHS-68	WF	Hallway at Room 255M - Right	BJL - 4/11/24 - 21:41	BJL - 4/12/24 - 5:51
HHS-69	WF	Hallway at Room 256 - Left	BJL - 4/11/24 - 21:43	BJL - 4/12/24 - 5:53
HHS-70	WF	Hallway at Room 256 - Right	BJL - 4/11/24 - 21:43	BJL - 4/12/24 - 5:53
HHS-71	S	Room 66C	BJL - 4/11/24 - 21:48	BJL - 4/12/24 - 5:57
HHS-72	S	Room 274 Dish Wash - Left	BJL - 4/11/24 - 21:55	BJL - 4/12/24 - 6:06
HHS-73	S	Room 274 Dish Wash - Right	BJL - 4/11/24 - 21:55	BJL - 4/12/24 - 6:07
HHS-74	S	Room 274 Dish Rinse	BJL - 4/11/24 - 21:55	BJL - 4/12/24 - 6:08
HHS-75	WF	Room 3	BJL - 4/11/24 - 22:07	BJL - 4/12/24 - 6:11

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Sampling and Reporting Services

Building Name: Hickman High School

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Columbia, Missouri

Sample ID	Fixture Type	Location	Flushed By - Date - Time	Sampled By - Date - Time
HHS-76	WF	Room 6 Left	BJL - 4/11/24 - 22:09	BJL - 4/12/24 - 6:12
HHS-77	WF	Room 6 Right	BJL - 4/11/24 - 22:09	BJL - 4/12/24 - 6:12
HHS-78	WF	Room 5 Left	BJL - 4/11/24 - 22:11	BJL - 4/12/24 - 6:13
HHS-79	WF	Room 5 Right	BJL - 4/11/24 - 22:11	BJL - 4/12/24 - 6:13
HHS-80	WF	Room 173 Left	BJL - 4/11/24 - 22:20	BJL - 4/12/24 - 6:25
HHS-81	WF	Room 173 Right	BJL - 4/11/24 - 22:20	BJL - 4/12/24 - 6:25
HHS-82	ICE	Room 168	BJL - 4/11/24 - 22:21	BJL - 4/12/24 - 6:28
HHS-83	S	Room 170 Hand Wash	BJL - 4/11/24 - 22:22	BJL - 4/12/24 - 6:29
HHS-84	S	Room 170 Dish Wash	BJL - 4/11/24 - 22:22	BJL - 4/12/24 - 6:29
HHS-85	WF	Hallway at FA4	BJL - 4/11/24 - 22:35	BJL - 4/12/24 - 6:38
HHS-86	WF	Hallway at FA7	BJL - 4/11/24 - 22:40	BJL - 4/12/24 - 6:39
HHS-87	S	FAO5	BJL - 4/11/24 - 22:43	BJL - 4/12/24 - 6:40
HHS-88	WF	CASA LAB 002 Left	BJL - 4/11/24 - 23:00	BJL - 4/12/24 - 7:00
HHS-89	BF	CASA LAB 002 Right	BJL - 4/11/24 - 23:00	BJL - 4/12/24 - 7:00
HHS-90	WF	CASA LAB 002 Right	BJL - 4/11/24 - 23:00	BJL - 4/12/24 - 7:00
HHS-91	S	CASA LAB 002	BJL - 4/11/24 - 23:00	BJL - 4/12/24 - 7:00
HHS-18-2	WF	Room 144L	BJL - 6/25/24 - 23:32	BJL - 6/26/24 - 7:32



#### **APPENDIX C**

**DRINKING WATER LABORATORY DATA SHEETS** 

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:

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	5
Accreditations	6
Laboratory Results	7
Receiving Check List	9
Chain of Custody	Appended



#### **Definitions**

http://www.teklabinc.com/

Client: Geotechnology, Inc. Work Order: 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 En		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	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	I, 200.8 R5.4, META	LS BY ICPMS (TOTAL)	)					
Lead								
24041267-001	A EBE-35-2	NELAP	1.0	9.8	µg/L	1	05/10/2024 15:55	04/12/2024 3:28
24041267-002	A TMP-16-2	NELAP	1.0	1.5	µg/L	1	05/10/2024 15:59	04/12/2024 3:42
24041267-003	A HHS-01	NELAP	1.0	< 1.0	μg/L	1	05/10/2024 16:02	04/12/2024 4:15
24041267-004	A HHS-02	NELAP	1.0	< 1.0	μg/L	1	05/10/2024 16:06	04/12/2024 4:15
24041267-005	A HHS-03	NELAP	1.0	< 1.0	μg/L	1	05/10/2024 16:09	04/12/2024 4:15
24041267-006	A HHS-04	NELAP	1.0	< 1.0	μg/L	1	05/10/2024 16:13	04/12/2024 4:15
24041267-007	A HHS-05	NELAP	1.0	< 1.0	μg/L	1	05/10/2024 16:17	04/12/2024 4:15
24041267-008	A HHS-06	NELAP	1.0	< 1.0	μg/L	1	05/10/2024 16:39	04/12/2024 4:25
24041267-009	A HHS-07	NELAP	1.0	< 1.0	μg/L	1	05/10/2024 16:42	04/12/2024 4:27
24041267-010	A HHS-08	NELAP	1.0	< 1.0	μg/L	1	05/10/2024 16:46	04/12/2024 4:27
24041267-011	A HHS-09	NELAP	1.0	< 1.0	μg/L	1	05/10/2024 16:50	04/12/2024 4:31
24041267-012	A HHS-10	NELAP	1.0	< 1.0	μg/L	1	05/10/2024 16:53	04/12/2024 4:31
24041267-013	A HHS-11	NELAP	1.0	< 1.0	μg/L	1	05/10/2024 16:57	04/12/2024 4:34
24041267-014	A HHS-12	NELAP	1.0	< 1.0	μg/L	1	05/10/2024 17:01	04/12/2024 4:34
24041267-015	A HHS-13	NELAP	1.0	< 1.0	μg/L	5	05/15/2024 9:43	04/12/2024 4:34
24041267-016	A HHS-14	NELAP	1.0	< 1.0	μg/L	1	05/10/2024 17:04	04/12/2024 4:36
24041267-017	A HHS-15	NELAP	1.0	< 1.0	μg/L	1	05/10/2024 17:08	04/12/2024 4:36
24041267-018	A HHS-16	NELAP	1.0	< 1.0	μg/L	1	05/13/2024 9:31	04/12/2024 4:38
24041267-019	A HHS-17	NELAP	1.0	5.9	μg/L	1	05/13/2024 9:34	04/12/2024 4:38
24041267-020	A HHS-18	NELAP	1.0	7.8	μg/L	1	05/13/2024 9:38	04/12/2024 4:45
24041267-021	A HHS-19	NELAP	1.0	< 1.0	μg/L	1	05/13/2024 9:42	04/12/2024 4:50
24041267-022	A HHS-20	NELAP	1.0	< 1.0	μg/L	1	05/13/2024 9:45	04/12/2024 4:52
24041267-023	A HHS-21	NELAP	1.0	< 1.0	μg/L	1	05/13/2024 9:49	04/12/2024 4:52
24041267-024	A HHS-22	NELAP	1.0	< 1.0	μg/L	1	05/13/2024 9:53	04/12/2024 4:54
24041267-025	A HHS-23	NELAP	1.0	< 1.0	μg/L	1	05/13/2024 9:56	04/12/2024 4:54
24041267-026	A HHS-24	NELAP	1.0	< 1.0	μg/L	1	05/13/2024 10:00	04/12/2024 4:54
24041267-027	A HHS-25	NELAP	1.0	< 1.0	μg/L	1	05/13/2024 10:04	04/12/2024 4:56
24041267-028	A HHS-26	NELAP	1.0	< 1.0	μg/L	1	05/13/2024 10:26	04/12/2024 4:58
24041267-029	A HHS-27	NELAP	1.0	36.5	μg/L	1	05/13/2024 10:29	04/12/2024 5:00
24041267-030	A HHS-28	NELAP	1.0	17.8	μg/L	1	05/13/2024 10:33	04/12/2024 5:01
24041267-031	A HHS-29	NELAP	1.0	4.7	μg/L	1	05/13/2024 10:37	04/12/2024 5:01
24041267-032	A HHS-30	NELAP	1.0	3.9	μg/L	1	05/13/2024 10:40	04/12/2024 5:03
24041267-033	A HHS-31	NELAP	1.0	< 1.0	μg/L	1	05/15/2024 9:29	04/12/2024 5:06
24041267-034	A HHS-32	NELAP	1.0	2.9	μg/L	1	05/13/2024 10:48	04/12/2024 5:07
24041267-035	A HHS-33	NELAP	1.0	2.7	μg/L	1	05/10/2024 17:23	04/12/2024 5:07
24041267-036	A HHS-34	NELAP	1.0	2.2	μg/L	1	05/10/2024 17:34	04/12/2024 5:10
24041267-037	A HHS-35	NELAP	1.0	< 1.0	μg/L	1	05/10/2024 17:37	04/12/2024 5:10
24041267-038	A HHS-36	NELAP	1.0	< 1.0	μg/L	1	05/10/2024 17:41	04/12/2024 5:11
24041267-039	A HHS-37	NELAP	1.0	2.3	μg/L	1	05/10/2024 17:45	04/12/2024 5:13
24041267-040	A HHS-38	NELAP	1.0	2.0	μg/L	1	05/10/2024 17:48	04/12/2024 5:14
24041267-041	A HHS-39	NELAP	1.0	< 1.0	μg/L	1	05/10/2024 17:52	04/12/2024 5:14
24041267-042	A HHS-40	NELAP	1.0	4.9	μg/L	1	05/10/2024 17:56	04/12/2024 5:16
24041267-043	A HHS-41	NELAP	1.0	1.6	μg/L	1	05/10/2024 18:10	04/12/2024 5:18
24041267-044	A HHS-42	NELAP	1.0	1.1	μg/L	1	05/10/2024 18:21	04/12/2024 5:19
24041267-045	A HHS-43	NELAP	1.0	< 1.0	μg/L	1	05/10/2024 18:25	04/12/2024 5:21
24041267-046	A HHS-44	NELAP	1.0	2.0	μg/L	1	05/10/2024 18:28	04/12/2024 5:23
24041267-047	A HHS-45	NELAP	1.0	< 1.0	μg/L	5	05/15/2024 10:05	04/12/2024 5:25
24041267-048	A 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	Units DF Date Analyze		Date Collected
EPA 600 4.1.4	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 **V** 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

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City / State	, <del></del>	. Louis, MO 63	146									L	.ab	No	tes	\$												
Contact:	Brad Lohru			Phone	e:	(3	14) 9	3/-/4	40			L																
E-Mail:	blohrum@i	teamues.com		Fax:						······································		CI	lien	it C	on	ıme	nt	s:										
Are these sample Are these sample Are there any req limits in the comm	s known to I uired reporti nent section.	be hazardous? ing limits to be r · ☐ Yes 🏾 🎗	☐ Yes	No uested analys	sis?.	If ye	s, plea			☑ 1 de	Vio																	
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- C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C	J044517.01			Brad L	oh	rum					╝		ᄗ			Sp	ଦ୍ର	DW										
Results Requested  Standard 1-2 Day (100% Surcharge)		Billing Ins	tructions	#	and	Туре	of C	onta	ainer	s	Aq	폿.		<u>s</u>	eci.	rou	)											
Standard 1-2 Day (100% Surcharge)  Other 3 Day (50% Surcharge)				UNPRES	HNO3	NaOt		MeO	NaHSO4	OTHE	Aqueous	Drinking Water	Se.	Sludge	Special Waste	Groundwater	Lead E200.8											
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pg. 2 of 10 Work order #24041267

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City / State		St. Louis, MO 63	146							<del></del>				Lab	No.	tes	5																
Contact:	Brad Lo				Phone	e:	(3	14)	997-	7440	)																				_		
E-Mail:	blohrun	n@teamues.com			Fax:									Clier	nt C	on	ıme	nt	s:														
Are these sample:	s known	to be involved in lit	igation?	? If yes, a s	urcharge	will	appl	y	<u> </u>	/es	X	No	1																				
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pg. 3 of 10 Work order #24041267

Client:	Geotechnology, L	-LC								Sa	am	ples	on	88	ICE	■ BLI	JE ICE		NO I	CE			- (	°C	LI	G#	
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City / State	/ Zip St. Louis, MO 63	3146								La	ıb l	Note	es														
Contact:	Brad Lohrum	Phor	ie:	(:	314)	997-7	440																				
E-Mail:	blohrum@teamues.com	Fax:								Cii	on!	· Ca	mm	ont.							-						
Are these sample	s kaowa ta ba involved in li	itigation? If yes, a surcharg	الغدد	onni		Пу		X	.i.	1	en:		******	em	٥.												
	s known to be hazardous?		₩ WIII	appi	у	U T	es	KA I	NO																		
Are there any requ	uired reporting limits to be	met on the requested analy	sis?.	If ye	s, p	lease	provi	de																			
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Project	Name/Number	Sample Co	olled	tor	's N	lame	•				M.	ATF	RIX				INI	OICA	TE,	ANA	LYS	IS R	EQI	JES'	TED		
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Illinois

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May 15, 2024

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

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

**RE:** J044517.01 **WorkOrder:** 24041268

Dear Brad Lohrum:

TEKLAB, INC received 33 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: 24041268

Client Project: J044517.01

Report Date: 15-May-24

#### This reporting package includes the following:

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



#### **Definitions**

http://www.teklabinc.com/

Client: Geotechnology, Inc. Work Order: 24041268

Client Project: J044517.01 Report Date: 15-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 )



Client Project: J044517.01

#### **Definitions**

http://www.teklabinc.com/

Client: Geotechnology, Inc. Work Order: 24041268

Report Date: 15-May-24

#### **Qualifiers**

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

- RL shown is a Client Requested Quantitation Limit
- H Holding times exceeded

# - Unknown hydrocarbon

- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
  - Spike Recovery outside recovery limits
- X Value exceeds Maximum Contaminant Level



#### **Case Narrative**

http://www.teklabinc.com/

Work Order: 24041268

Report Date: 15-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: 24041268

Client Project: J044517.01 Report Date: 15-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: 24041268

Client Project: J044517.01 Report Date: 15-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	•	,	•					
24041268-001	A HHS-59	NELAP	1.0	1.4	μg/L	1	05/10/2024 20:18	04/12/2024 5:41
24041268-002		NELAP	1.0	3.8	μg/L	1	05/09/2024 14:36	04/12/2024 5:43
24041268-003	A HHS-61	NELAP	1.0	< 1.0	μg/L	1	05/09/2024 14:40	04/12/2024 5:44
24041268-004	A HHS-62	NELAP	1.0	2.6	μg/L	1	05/10/2024 20:40	04/12/2024 5:45
24041268-005	A HHS-63	NELAP	1.0	4.8	μg/L	1	05/09/2024 14:55	04/12/2024 5:46
24041268-006	A HHS-64	NELAP	1.0	37.3	µg/L	5	05/15/2024 10:16	04/12/2024 5:47
24041268-007	A HHS-65	NELAP	1.0	< 1.0	μg/L	1	05/09/2024 14:58	04/12/2024 5:49
24041268-008	A HHS-66	NELAP	1.0	< 1.0	μg/L	1	05/09/2024 15:13	04/12/2024 5:49
24041268-009	A HHS-67	NELAP	1.0	< 1.0	μg/L	1	05/09/2024 15:17	04/12/2024 5:51
24041268-010	A HHS-68	NELAP	1.0	< 1.0	μg/L	1	05/09/2024 15:20	04/12/2024 5:51
24041268-011	A HHS-69	NELAP	1.0	< 1.0	μg/L	1	05/09/2024 15:24	04/12/2024 5:53
24041268-012	A HHS-70	NELAP	1.0	< 1.0	μg/L	1	05/09/2024 15:28	04/12/2024 5:53
24041268-013/	A HHS-71	NELAP	1.0	3.5	μg/L	1	05/10/2024 20:51	04/12/2024 5:57
24041268-014	A HHS-72	NELAP	1.0	2.2	μg/L	1	05/09/2024 15:42	04/12/2024 6:06
24041268-015	A HHS-73	NELAP	1.0	< 1.0	μg/L	1	05/09/2024 15:46	04/12/2024 6:06
24041268-016	A HHS-74	NELAP	1.0	< 1.0	μg/L	1	05/09/2024 16:01	04/12/2024 6:06
24041268-017	A HHS-75	NELAP	1.0	< 1.0	μg/L	1	05/09/2024 16:04	04/12/2024 6:11
24041268-018	A HHS-76	NELAP	1.0	< 1.0	μg/L	1	05/09/2024 16:08	04/12/2024 6:12
24041268-019	A HHS-77	NELAP	1.0	< 1.0	μg/L	1	05/09/2024 16:12	04/12/2024 6:12
24041268-020	A HHS-78	NELAP	1.0	< 1.0	μg/L	1	05/09/2024 16:15	04/12/2024 6:13
24041268-021	A HHS-79	NELAP	1.0	< 1.0	μg/L	1	05/09/2024 16:19	04/12/2024 6:13
24041268-022	A HHS-80	NELAP	1.0	< 1.0	μg/L	1	05/09/2024 16:23	04/12/2024 6:25
24041268-023	A HHS-81	NELAP	1.0	< 1.0	μg/L	1	05/09/2024 16:26	04/12/2024 6:25
24041268-024	A HHS-82	NELAP	1.0	< 1.0	μg/L	1	05/09/2024 16:30	04/12/2024 6:28
24041268-025	A HHS-83	NELAP	1.0	< 1.0	μg/L	1	05/09/2024 16:34	04/12/2024 6:29
24041268-026	A HHS-84	NELAP	1.0	12.3	μg/L	1	05/09/2024 16:48	04/12/2024 6:29
24041268-027	A HHS-85	NELAP	1.0	< 1.0	μg/L	1	05/10/2024 21:02	04/12/2024 6:38
24041268-028	A HHS-86	NELAP	1.0	< 1.0	μg/L	1	05/09/2024 17:03	04/12/2024 6:39
24041268-029	A HHS-87	NELAP	1.0	3.2	μg/L	1	05/09/2024 17:07	04/12/2024 6:40
24041268-030	A HHS-88	NELAP	1.0	< 1.0	μg/L	1	05/09/2024 17:10	04/12/2024 7:00
24041268-031	A HHS-89	NELAP	1.0	< 1.0	μg/L	1	05/09/2024 17:14	04/12/2024 7:00
24041268-032	A HHS-90	NELAP	1.0	< 1.0	μg/L	1	05/09/2024 17:18	04/12/2024 7:00
24041268-033/	A HHS-91	NELAP	1.0	4.1	μg/L	1	05/09/2024 17:21	04/12/2024 7:00



#### **Receiving Check List**

http://www.teklabinc.com/

Work Order: 24041268 Client: Geotechnology, Inc. Client Project: J044517.01 Report Date: 15-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? **V** 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? NA 🗹 NPDES/CWA TCN interferences checked/treated in the field? Yes No 🗀

Samples were checked for turbidity and then preserved with nitric acid upon arrival in the laboratory. - amberdilallo - 4/15/2024 2:19:40 PM

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

pg. 7 of 10 Work order #24041268

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City / State	/ Zip	St. Louis, MO 63	146												-			Vot			•																	
Contact:	Brad Lo	ohrum				Phon	e:	_	(314	1) 99	97-7	440																										
E-Mail:	blohrun	n@teamues.com				Fax:		_								Clie	nt	Cc	mı	me	nto																	
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pg. 8 of 10 Work order # 24041268

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Contact:	***************************************	m@teamues.com		Phor	e:	_	O 1	, 00,	-7 -			_	L																					
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pg. 9 of 10 Work order #24041268

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Contact:	Brad	Lohrum			Phone	e:	(	314	) 99	7 <b>-</b> 74	40																							
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pg. 10 of 10 Work order # <u>24041268</u>

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City / State	/ Zip St. Louis, MC	63146									_	La	ıb	Not	es																	
Contact:	Brad Lohrum		Phone	e:	(;	314)	997	-744	10		₋┃																					
E-Mail:	blohrum@teamues.co	om	Fax:		_						_	Clic	en'	t Co	mn	nei	nts															
Are these samples	s known to be involved	in litigation? If yes	a surcharne	will	anni	v	П	Yes	2	d N	_		•					•														
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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:

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	5
Accreditations	6
Laboratory Results	7
Receiving Check List	9
Chain of Custody	Appended



#### **Definitions**

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Work Order: 24062353

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

#### Abbr Definition

- \* Analytes on report marked with an asterisk are not NELAP accredited
- CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
- CRQL A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.
  - DF Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.
  - DNI Did not ignite
- DUP Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.
- ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
- IDPH IL Dept. of Public Health
- LCS Laboratory control sample is a sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.
- LCSD Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MBLK Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
- MDL "The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."
- MS Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
- MSD Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MW Molecular weight
- NC Data is not acceptable for compliance purposes
- ND Not Detected at the Reporting Limit
- NELAP NELAP Accredited
  - PQL Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.
  - RL The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
  - RPD Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
  - SPK The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
  - Surr Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
  - TIC Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"
- TNTC Too numerous to count ( > 200 CFU )



#### **Definitions**

http://www.teklabinc.com/

Client: Geotechnology, Inc. Work Order: 24062353

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

#### Qualifiers

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

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



#### **Case Narrative**

http://www.teklabinc.com/

Work Order: 24062353

Report Date: 11-Jul-24

Client: Geotechnology, Inc.

Client Project: J044517.01

Cooler Receipt Temp: NA °C

#### Locations

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



### **Accreditations**

http://www.teklabinc.com/

Client: Geotechnology, Inc. Work Order: 24062353

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

State	Dept	Cert#	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2025	Collinsville
Illinois	IEPA	1004652024-2	NELAP	4/30/2025	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2025	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2025	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2025	Collinsville
Oklahoma	ODEQ	9978	NELAP	8/31/2024	Collinsville
Arkansas	ADEQ	88-0966		3/14/2025	Collinsville
Illinois	IDPH	17584		5/31/2025	Collinsville
Iowa	IDNR	430		6/1/2026	Collinsville
Kentucky	UST	0073		1/31/2025	Collinsville
Mississippi	MSDH			4/30/2025	Collinsville
Missouri	MDNR	930		1/31/2025	Collinsville
Missouri	MDNR	00930		10/31/2026	Collinsville



## **Laboratory Results**

http://www.teklabinc.com/

Client: Geotechnology, Inc. Work Order: 24062353

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

Matrix: DRINKING WATER

Sample ID	Client Sample ID	Certification Qual	RL	Result	Units	DF	Date Analyzed	<b>Date Collected</b>
EPA 600 4.1.4 Lead	, 200.8 R5.4, META	LS 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/	A SMS-02-2	NELAP	1.0	3.5	µg/L	1	07/03/2024 17:23	06/26/2024 15:08
24062353-003/	A 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/	A SMS-60-2	NELAP	1.0	8.7	µg/L	1	07/03/2024 17:34	06/26/2024 15:13
24062353-006/	A 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/	A 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/	A RBE-08-2	NELAP	1.0	1.3	µg/L	1	07/03/2024 18:18	06/26/2024 16:06
24062353-013/	A RBE-11-2	NELAP	1.0	1.6	μg/L	1	07/03/2024 18:21	06/26/2024 16:07
24062353-014/	A FES-52-2	NELAP	1.0	< 1.0	μg/L	1	07/03/2024 18:25	06/26/2024 16:16
24062353-015/	A BRH-82	NELAP	1.0	< 1.0	μg/L	1	07/03/2024 18:29	06/26/2024 16:33
24062353-016/	A BRH-83	NELAP	1.0	< 1.0	μg/L	1	07/03/2024 18:33	06/26/2024 16:36
24062353-017/	A MCE-09-2	NELAP	1.0	1.3	μg/L	1	07/08/2024 22:45	06/26/2024 16:51
24062353-018/		NELAP	1.0	< 1.0	µg/L	1	07/03/2024 18:58	06/26/2024 16:54
24062353-019/		NELAP	1.0	< 1.0	µg/L	1	07/03/2024 19:02	06/26/2024 16:54
24062353-020		NELAP	1.0	12.4	µg/L	1	07/03/2024 19:05	06/26/2024 17:17
24062353-021/		NELAP	1.0	1.9	µg/L	1	07/03/2024 19:09	06/26/2024 17:21
24062353-022/		NELAP	1.0	3.6	µg/L	1	07/03/2024 19:13	06/26/2024 17:21
24062353-023/		NELAP	1.0	< 1.0	µg/L	1	07/03/2024 19:16	06/26/2024 17:22
24062353-024/		NELAP	1.0	< 1.0	µg/L	1	07/03/2024 19:20	06/26/2024 17:22
24062353-025/		NELAP	1.0	< 1.0	µg/L	1	07/03/2024 19:24	06/26/2024 17:44
24062353-026/		NELAP	1.0	3.7	µg/L	1	07/03/2024 19:28	06/26/2024 17:46
24062353-027/		NELAP	1.0	< 1.0	µg/L	1	07/05/2024 12:13	06/26/2024 18:01
24062353-028/		NELAP	1.0	< 1.0	µg/L	1	07/03/2024 19:53	06/26/2024 18:03
24062353-029/		NELAP	1.0	13.2	µg/L	1	07/03/2024 19:57	06/26/2024 18:20
24062353-030/		NELAP	1.0	4.6	µg/L	1	07/03/2024 20:01	06/26/2024 18:35
24062353-031/		NELAP	1.0	2.1	µg/L	1	07/03/2024 20:04	06/26/2024 18:54
24062353-032/		NELAP	1.0	< 1.0	µg/L	1	07/03/2024 20:08	06/26/2024 19:07
24062353-033/		NELAP	1.0	6.4	µg/L	1	07/03/2024 20:12	06/26/2024 19:19
24062353-034		NELAP	1.0	2.7	μg/L	1	07/03/2024 20:15	06/26/2024 19:32
24062353-035/		NELAP	1.0	< 1.0	µg/L	1	07/05/2024 12:35	06/26/2024 19:55
24062353-036/		NELAP	1.0	< 1.0	µg/L	1	07/03/2024 20:41	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
24062353-038/		NELAP	1.0	< 1.0	µg/L	1	07/03/2024 20:48	06/26/2024 20:00
24062353-039/		NELAP	1.0	< 1.0	µg/L	1	07/03/2024 20:52	06/26/2024 20:07
24062353-040/		NELAP	1.0	< 1.0	µg/L	1	07/03/2024 20:56	06/26/2024 20:10
24062353-041/		NELAP	1.0	< 1.0	µg/L	1	07/03/2024 20:59	06/26/2024 20:10
24062353-047/		NELAP	1.0	< 1.0	µg/L	1	07/05/2024 20:35	06/26/2024 20:11
24062353-042/		NELAP	1.0	< 1.0	µg/L	1	07/03/2024 12:40	06/26/2024 20:11
24062353-043/		NELAP	1.0	5.6	µg/L	1	07/03/2024 21:29	06/26/2024 20:13
24062353-0447		NELAP	1.0	17.7	µg/L	1	07/03/2024 21:32	06/26/2024 20:39
24062353-045/		NELAP	1.0	< 1.0	µg/L	1	07/03/2024 21:36	06/26/2024 20:43
24062353-040/		NELAP	1.0	17.6	µg/L µg/L	1	07/08/2024 21:30	06/26/2024 20:43
24062353-0477		NELAP	1.0	4.3	µg/L µg/L	1	07/03/2024 23:07	06/26/2024 21:10



## **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? **V** Ice \_ Blue Ice None Dry Ice Chain of custody present? **~** No L Yes Chain of custody signed when relinquished and received? **~** Yes No L **~** Chain of custody agrees with sample labels? No 🗀 Yes **~** No 🗌 Samples in proper container/bottle? Yes **V** No 🗌 Sample containers intact? Yes Sufficient sample volume for indicated test? Yes **~** No **~** No  $\square$ All samples received within holding time? Yes NA 🗸 Field Lab Reported field parameters measured: Yes 🗸 No 🗌 Container/Temp Blank temperature in compliance? When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected. No VOA vials 🗸 Water - at least one vial per sample has zero headspace? Yes 🗌 No 🗀 No TOX containers Water - TOX containers have zero headspace? Yes No 🗌 Yes 🗹 No 🗌 Water - pH acceptable upon receipt? NA 🗹 NPDES/CWA TCN interferences checked/treated in the field? Yes No  $\square$ Any No responses must be detailed below or on the COC.

Samples were checked for turbidity and then preserved with nitric acid upon arrival in the laboratory. - pschultz - 6/28/2024 4:49:24 PM

CHAIN OF CUSTODY pg. of Work order # 24062353 TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005

Contact: E-Mail:  Are these samples Are these samples Are there any requ	known to be hazardous?	Phone Fax:  tigation? If yes, a surcharge Yes No met on the requested analys	will appl		Yes D	No	Pi Li Cii	res ab	erve Note	ed ir	1; 🗵	LAB	BLUEICE MOICE NA °C LTG#  B FIELD FOR LAB USE ONLY  COUNTER
	ent section.	No Sample Co	lector'	s Nan	ne			M	ATF	RIX			INDICATE ANALYSIS REQUESTED
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-003	58-2	3:11	1					XI		1		X	
034	59-2	3:12	1					X				X	
-005	60-2	3:13	1					XI.				X	
-004	61-2	3:14	1					X				X	
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# CHAIN OF CUSTODY pg. 2 of 6 Work order # 24062573

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Client:	Geotechnology, L	LC							-						ICE		E	∭ NC		<b></b> .			,C	LTG	#	
Address:	11816 Lackland R	oad							F	re	ser	ve	d in	: 🖾	LAB	FIELD			Ī	FOR	<u>LAB</u>	USE	ON	<u>_Y</u>		
City / State		146							L	_ab	N	ote:	s													
Contact:	Brad Lohrum	Phone	<b>e:</b>	(314	997	7-744	0																			
E-Mail:	blohrum@teamues.com	Fax:							С	lie	nt (	Con	nme	ent	s:	· · · · · ·		,	and the second	8 = - · · · · · · · · · · · · ·		***************************************	· · · · · · · · · · · · · · · · · · ·	19-4 Harris	Marie Marie	*
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Other	3 Day (50% Surcharge)		UNPRES	NaOH	H2S04	품	NaHS04	OTHER	Aqueous	Drinking Water		ge	Special Waste	Groundwater	HE2											
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-013	RBE-11-2	4:67	1							Х					Х											
-014	FES-52-2	4:16	1							Х					Х		THE STREET							And the same of th		
-015	BRH-82	4:33	1							Х					Х			and the second s								
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617	MCE -09-2	4:51	1							Χ					Х											
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# CHAIN OF CUSTODY pg. $\leq$ of $\ell$ Work order # 29062353

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

Client:	Geotechnology, Ll	rc							5	San	nple	es c	on:	888	ICE		BLU	EICE		NO	ICE	-			°(	2	LT	G# _		<u> </u>
Address:	11816 Lackland R	oad							F	re:	ser	ved	l in	: 🖾	LAB		FIEL	D			<u> </u>	OR	<u>LA</u>	<u>BU</u>	<u>ISE</u>	ON	<u>.Y</u>			
City / State	/ Zip St. Louis, MO 631	146							L	_ab	No	tes	;																	
Contact:	Brad Lohrum	Phone	:	(31-	4) 99	7-744	10																							
E-Mail:	blohrum@teamues.com	Fax:							С	lier	nt C	on	ıme	ent	s:			•		,V5544 - 4 / .				<u></u>			2000000	<del>Quonama</del>		
Are these samples	s known to be hazardous?					Yes		No																						
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CHAIN OF CUSTODY pg. 4 of 6 Work order # 24062353

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

Client:	Geoted	chnology, LLC							_ 33		-				BLUE ICE NO			°c	LTG	#
Address:	11816	Lackland Road							_ <b> </b> F	res	erv	ed ir	1: 🗐	LAB	FIELD	FOR	R LAB	USE O	<u>VLY</u>	
City / State	/ Zip St. Lou	is, MO 63146							_   l	_ab	Note	es								
Contact:	Brad Lohrum	****	Phone	<b>:</b> :	(314	997	7440												78	
E-Mail:	blohrum@team	ues.com	Fax:						- C	lien	t Co	mm	ents	s:						
re these samples	s known to be ha	azardous? [] `mits to be met o	n the requested analys					∭ N ⁄ide	0											
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-035	OMS-	08-2	7:55	1						X				Х					1	
-036	OMS-1	0-2	7:56	1						X				Х						
-037		2-2	7:57	1						X				Х						
-038	]-	1-2	8:00	1						X				Х						
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CHAIN OF CUSTODY pg. 5 of 6 Work order # 24062353

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

O!" /	Geotechnology, LL	.c								s	am	ple	2S C	on:	500	ICE	[	■ BL	UE I	CE		1010	Œ				°C	Olivina:	LTG#	<i>‡</i>	
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Address: City / State										F	ab																				•
City / State	Brad Lohrum	Phone	· ·	(31	4) 9	97-7	440																								
E-Mail:	blohrum@teamues.com	Fax:	••							-	ien	+ ^	· OP		ant							,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	102048.ES	*********	<u>19</u>	E-SHEETSHAM	4	~-0%		***************************************	a nedisi
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# CHAIN OF CUSTODY pg. 6 of 6

Work order # 2406 2353

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

Client:	Geotechnology, L	TC					5	Sar	npl	es	on:		ICE	BLUE	CE	® NO	ICE			°C	•	LTG#		
Address:	11816 Lackland F	Road					F	>re	ser	vec	l in	: 📓	LAB	FIELD			F	OR L	.AB	JSE	ONL	Y		1
City / State	/ Zip St. Louis, MO 63	146					_ <b> </b> L	_ab	No.	otes	5													:
Contact:	Brad Lohrum	Phone	(3	14) 99	7-7440																			1
E-Mail:	blohrum@teamues.com	Fax:					- c	lie	nt C	on	ıme	ents	);				40	Marie Walan	*****			ACT CONTRACT OF		
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· ·	44517.01	Brad Lo						D	Γ			_	DW		Т									
	ts Requested	Billing Instructions	#and		of Cont	ainers	<b>-</b>  ≥	Drinking Water		Sludge	pec	Groundwater	V - L										-	
X Standard	1-2 Day (100% Surcharge)	Dining instructions	c		_	z	Aqueous	ing	Soil	lud	ial \	judi	Lead											
Other	3 Day (50% Surcharge)		HNO3	12SO	HCL	NaHSO4	suc	Wa		Эe	۷as	vate	E200.8								***************************************			
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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.