

### WATER SAMPLING AND REPORTING SERVICES

COLUMBIA PUBLIC SCHOOLS SMITHTON MIDDLE SCHOOL 3600 WEST WORLEY STREET COLUMBIA, MISSOURI

Prepared for:

COLUMBIA PUBLIC SCHOOLS COLUMBIA, MISSOURI

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

Date: December 21, 2024

Project No.: **J044517.01** 

SAFETY TEAMWORK RESPONSIVENESS INTEGRITY VALUE EXCELLENCE





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

December 21, 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 Smithton Middle School 3600 West Worley Street 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 revised 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 Smithton Middle School, located southeast of the intersection of Silvey Street and West Worley Street in Columbia, Missouri. The purpose of the drinking water sampling was to identify potable water outlets that may require remediation in accordance with the State of Missouri's *Get the Lead out of School Drinking Water Act* (RSMo 160.077).

#### DRINKING WATER SAMPLING

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

In general conformance with the RSMo 160.077 requirements, and the Environmental Protection Agency's (EPA) *3Ts for Reducing Lead in Drinking Water in Schools and Child Care Facilities* manual, initial water flushing and sampling activities were conducted on January 10 and 11 and March 5 and 6, 2024, by Mr. Brad Lohrum, a Missouri-licensed lead risk assessor. Mr. Lohrum was assisted by Mr. Robert Haefner, a Missouri-licensed lead risk assessor, and



Mr. Seth Lamble, a Missouri-licensed lead inspector. Copies of training certificates and lead licenses for Messrs. Lohrum, Haefner, and Lamble are included in Appendix A.

An inventory of potable drinking water outlets was provided to UES by CPS. UES personnel sampled the identified outlets utilizing the EPA's "first-draw" methods. The identified outlets were flushed, then allowed to sit undisturbed for a period of 8-18 hours. Following this stagnation period, the first 250 milliliters (ml) of water expelled from the outlets were collected in laboratory-provided containers. 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. Floor plans depicting approximate sample locations are included as Figures 1 and 2.

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

#### RESULTS

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

Sample Number / Location and Fixture Type	Results
SMS-01 / Office F Sink	12.7 ppb
SMS-02 / Nurse's Office Sink	6 ppb
SMS-08 / Room 101 Bubbler	23.1 ppb
SMS-09 / Room 103 Sink	35.1 ppb
SMS-11 / Room 105 Sink	31.4 ppb
SMS-13 / Room 106 Sink	18.5 ppb
SMS-14 / Room 107 Sink	19 ppb
SMS-16 / Room 108 Left-hand Sink	20.2 ppb
SMS-17 / Room 108 Right-hand Sink	50.4 ppb
SMS-22 / Room 113 Sink	36.8 ppb
SMS-24 / Room 115 Sink	16.8 ppb
SMS-26 / Room 116 Left-hand Sink	220 ppb
SMS-27 / Room 116 Right-hand Sink	207 ppb
SMS-28 / Room 117 Sink	78.7 ppb
SMS-30 / Room 118 Left-hand Sink	281 ppb
SMS-31 / Room 118 Right-hand Sink	184 ppb

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



Sample Number / Location and Fixture Type	Results
SMS-34 / Room 160 Sink	28.5 ppb
SMS-38 / Room 163 Sink	6.1 ppb
SMS-40 / Room 165 Left-hand Sink	21.4 ppb
SMS-41 / Room 165 Left Center Sink	16.1 ppb
SMS-42 / Room 165 Right Center Sink	12.6 ppb
SMS-43 / Room 165 Right-hand Sink	22.2 ppb
SMS-45 / Room 167 Left-hand Sink	19 ppb
SMS-46 / Room 167 Left Center Sink	19.4 ppb
SMS-47 / Room 167 Right Center Sink	7.8 ppb
SMS-48 / Room 167 Right-hand Sink	10.8 ppb
SMS-52 / Room 150 Left-hand Sink	28.4 ppb
SMS-54 / Room 150 Right-hand Sink	16.4 ppb
SMS-58 / Room 153 Yellow Sink	41.5 ppb
SMS-59 / Room 153 Orange Sink	11 ppb
SMS-60 / Room 153 Green Sink	9.9 ppb
SMS-61 / Room 153 Purple Sink	26 ppb
SMS-62 / Room 153 Red Sink	40.8 ppb
SMS-63 / Room 154 Left-hand Sink	19.6 ppb
SMS-64 / Room 154 Right-hand Sink	26.3 ppb
SMS-65 / Room 155 Sink	27.2 ppb
SMS-79 / Kitchen B – Food Prep Sink	6.8 ppb
SMS-88 / Room 201 Sink	21.2 ppb
SMS-90 / Room 203 Sink	25.8 ppb
SMS-92 / Room 205 Sink	36.3 ppb
SMS-94 / Room 206 Left-hand Sink	16.4 ppb
SMS-95 / Room 206 Right-hand Sink	38.5 ppb
SMS-97 / Room 207 Bubbler	31.4 ppb
SMS-103 / Room 211 Sink	20 ppb
SMS-105 / Room 213 Sink	22.2 ppb
SMS-110 / Room 216 Right-hand Bubbler	171 ppb
SMS-111 / Room 217 Sink	20.5 ppb
SMS-113 / Room 218 Left-hand Sink	33.4 ppb
SMS-115 / Room 218 Eye Wash Sink	33.7 ppb

UES personnel returned to the site on June 25 and 26, 2024, to resample the locations listed as SMS-01, 02, 58-62, and 74. 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
SMS-58-2 / Room 153 Yellow Sink	7.5 ppb
SMS-60-2 / Room 153 Green Sink	8.7 ppb
SMS-61-2 / Room 153 Purple Sink	6.9 ppb
SMS-62-2 / Room 153 Red Sink	7.4 ppb

UES personnel returned to the site on September 19, 2024, to resample the locations listed in Table 2. Laboratory analyses detected the presence of lead at or above 5 ppb in the following samples.

# TABLE 3RESAMPLED DRINKING WATER OUTLETS AT OR ABOVE 5 PARTS PER BILLION

Sample Number / Location and Fixture Type	Results
SMS-58-3 / Room 153 Yellow Sink	13.5 ppb
SMS-60-3 / Room 153 Green Sink	12.8 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 resampled, and the outlets identified in Table 3 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:

- Drinking Water Sampling Locations – First Floor
<ul> <li>Drinking Water Sampling Locations – Second Floor</li> </ul>
- Certificates and Licenses of Environmental Professionals
- Drinking Water Sampling Forms
- Drinking Water Laboratory Data Sheets
- Limitations of Report

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

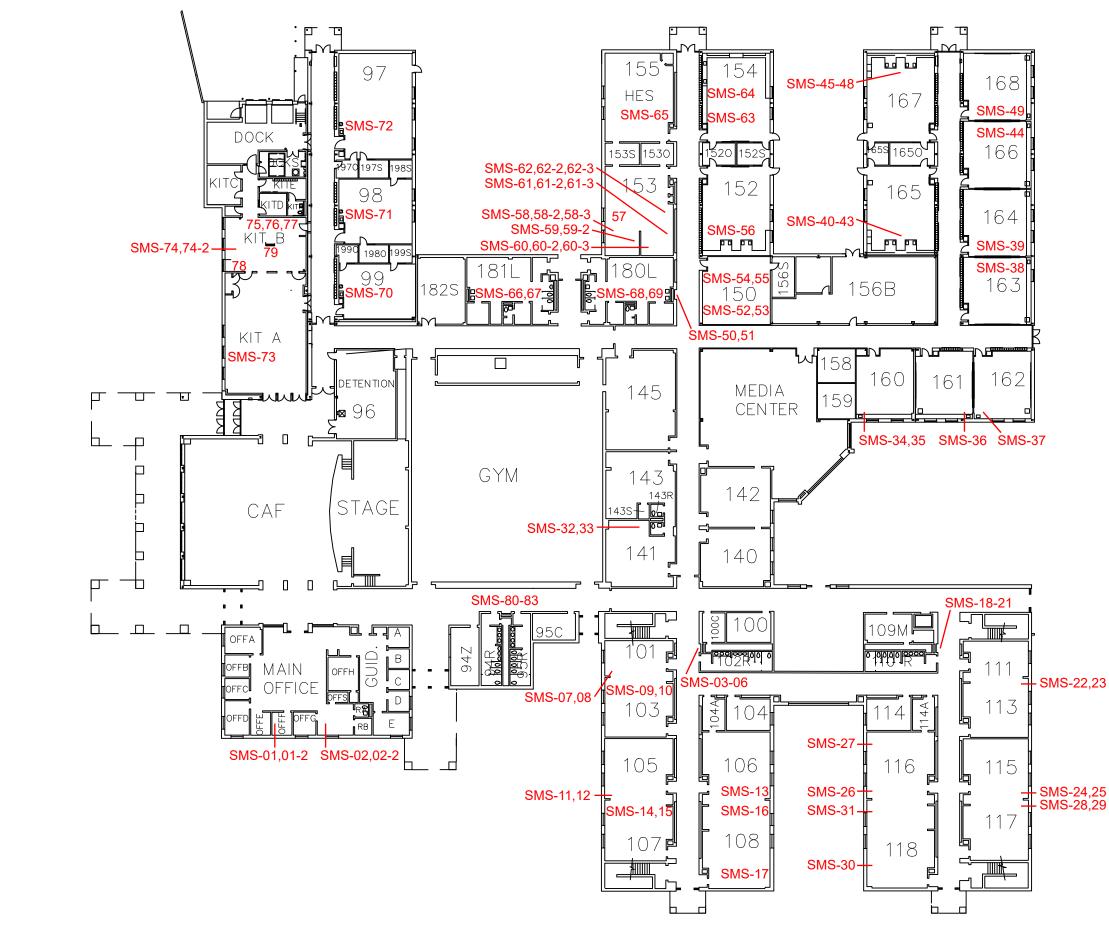
Very truly yours,

UES

Broolly Joh

Bradley J. Lohrum Project Manager

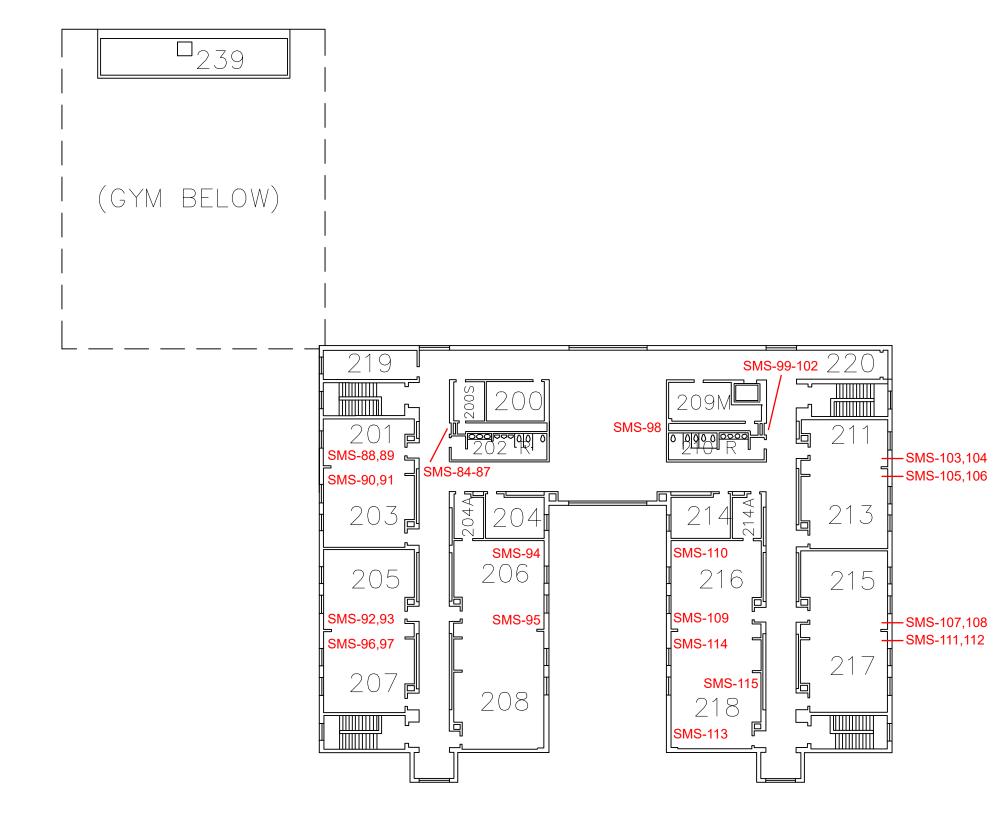
BJL/MSR:bjl/jsj



#### NOTES

- 1. Drawing not to scale.
- 2. Drawing adapted from "Smithton Middle School First Floor Plan", provided by the client, dated 06/12/2018.
- 3. Sample locations were identified in the field relative to building features and are approximate only.

Drawn By: BJL	Ck'd By:	BJL	App'vd By: MSR	
Date: 12-21-24	Date: 12	-21-24	Date: 12-21-24	
UES				
3600 West Worley Street Columbia, Missouri				
DRINKING WATER SAMPLE LOCATIONS - FIRST FLOOR				
	Project Number J044517.01 FIGURE 1			



### NOTES

- 1. Drawing not to scale.
- 2. Drawing adapted from "Smithton Middle School Second Floor Plan", provided by the client, dated 08/13/2013.

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3. Sample locations were identified in the field relative to building features and are approximate only.

Drawn By: BJL	Ck'd By: BJL	App'vd By: MSR		
Date: 12-21-24	Date: 12-21-2	24 Date: 12-21-24		
UES				
3600 West Worley Street Columbia, Missouri				
DRINKING WATER SAMPLE LOCATIONS - SECOND FLOOR				
Project Number J044517.01 FIGURE 2				



### APPENDIX A

### CERTIFICATES AND LICENSES OF ENVIRONMENTAL PROFESSIONALS

# PUBLIC HEALTH & SOCIAL JUSTICE

SAINT LOUIS UNIVERSITY

CENTER FOR ENVIRONMENTAL EDUCATION AND TRAINING

verifies that

# **Bradley Lohrum**

817 S Sappington Road, Crestwood, MO 63126

has attended

8 contact hours of training and successfully passed an examination

### Lead Risk Assessor Refresher

St. Louis, MO

Certificate # CEET 325 - 12/12/2022 - 189152 Examination Date: 12/12/2022 CEUs: 0.8 Christopher C. King PhD

Director, Center for Environmental Education and Training

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

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

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

# **LEAD OCCUPATION LICENSE REGISTRATION**

## Issued to:

# **Bradley J. Lohrum**

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

> Lead Risk Assessor Category of License

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

Daven I. Nichel

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

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



# SAINT LOUIS UNIVERSITY

## CENTER FOR ENVIRONMENTAL EDUCATION AND TRAINING

verifies that

# **Robert Haefner**

3951 Dover PI, St. Louis, MO 63116

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

## Lead Risk Assessor Refresher

St. Louis, MO

118035

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

Rene Dulle, MBA, Director Center for Environmental Education & Training Center for Environmental Education and Training | 3545 Lafayette Ave., St. Louis, MO 63104 (314) 977-8256 |slu.edu/public-health-social-justice/centers-institutes/ceet.php

> The training course has been accredited by the Missouri Dept, of Health and Senior. Services, and by the Illinois Dept. of Public Health. Certificate expiration is 3 years from examination date for Illinois Dept. of Public Health.

# LEAD OCCUPATION LICENSE REGISTRATION

Issued to:

# Robert J. Haefner

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

> Lead Risk Assessor Category of License

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

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

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

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

# PUBLIC HEALTH & SOCIAL JUSTICE

#### SAINT LOUIS UNIVERSITY

#### CENTER FOR ENVIRONMENTAL EDUCATION AND TRAINING

verifies that

# Seth Lamble

12040 Chaparral Drive, Bridgeton, Missouri 63044

has attended

8 contact hours of training and successfully passed an examination

### Lead Inspector Refresher

St. Louis, MO

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

Kine Christopher C. King PhD

Director, Center for Environmental Education and Training

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

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

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

# **LEAD OCCUPATION LICENSE REGISTRATION**

## Issued to:

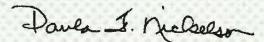
# Seth P. Lamble

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

> Lead Inspector Category of License

Issuance Date: Expiration Date: License Number:

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



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

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

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# **Lead Abatement Contractor License**

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

Issued to:

# Geotechnology, LLC 11816 Lackland Road, Suite 150

St. Louis, MO 63146

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



Donal A. Rauna

Donald G. Kauerauf Director Department of Health and Senior Services

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

# **Lead Abatement Contractor License**

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

Issued to:

# Geotechnology LLC (UES) 11816 Lackland Rd Suite 150

St. Louis, MO 63146

Issuance Date:2Expiration Date:2License Number:2

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

Daven I. Nichels

Paula F. Nickelson Director Department of Health and Senior Services

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



### APPENDIX B

### DRINKING WATER SAMPLING FORMS



Project Name: Columbia Public Schools Water Sampling and Reporting Services

Building Name: Smithton Middle School

Project Number: J044517.01

Address: 3600 West Worley Street Columbia, Missouri

Sample ID Fixture Type Location Flushed By - Date - Time Sampled By - Date - Time **SMS-01** S Office F SPL - 1/10/24 - 19:00 SPL - 1/11/24 - 4:51 SPL - 1/10/24 - 19:00 RJH - 1/11/24 - 4:52 **SMS-02** S Nurse SPL - 1/11/24 - 5:04 Hallway at Room 101 - Left RJH - 1/10/24 - 19:09 **SMS-03** BF SPL - 1/11/24 - 5:04 SMS-04 WF Hallway at Room 101 - Left RJH - 1/10/24 - 19:09 BF Hallway at Room 101 - Right BJL - 3/5/24 - 19:52 BJL - 3/6/24 - 3:32 **SMS-05** WF Hallway at Room 101 - Right SPL - 1/10/24 - 19:09 RJH - 1/11/24 - 5:04 **SMS-06 SMS-07** S Room 101 SPL - 1/10/24 - 19:10 RJH - 1/11/24 - 4:57 SPL - 1/10/24 - 19:10 RJH - 1/11/24 - 4:57 В Room 101 **SMS-08** S Room 103 SPL - 1/10/24 - 19:11 SPL - 1/11/24 - 5:05 **SMS-09 SMS-10** В Room 103 SPL - 1/10/24 - 19:11 SPL - 1/11/24 - 5:05 RJH - 1/11/24 - 5:07 S SPL - 1/10/24 - 19:13 SMS-11 Room 105 SPL - 1/10/24 - 19:13 В Room 105 RJH - 1/11/24 - 5:07 **SMS-12** S Room 106 SPL - 1/10/24 - 19:14 SPL - 1/11/24 - 5:08 **SMS-13** SMS-14 S Room 107 SPL - 1/10/24 - 19:15 RJH - 1/11/24 - 5:09 SPL - 1/10/24 - 19:15 В Room 107 RJH - 1/11/24 - 5:09 **SMS-15** Room 108 - Left SPL - 1/10/24 - 19:18 **SMS-16** S RJH - 1/11/24 - 5:11 RJH - 1/10/24 - 19:18 SPL - 1/11/24 - 5:11 S Room 108 - Right **SMS-17** Hallway at Room 110 - Left RJH - 1/10/24 - 19:27 RJH - 1/11/24 - 5:13 **SMS-18** BF **SMS-19** WF Hallway at Room 110 - Left RJH - 1/10/24 - 19:27 RJH - 1/11/24 - 5:13 SMS-20 ΒF Hallway at Room 110 - Right SPL - 1/10/24 - 19:27 SPL - 1/11/24 - 5:13 SMS-21 WF Hallway at Room 110 - Right SPL - 1/10/24 - 19:27 SPL - 1/11/24 - 5:13 SMS-22 S Room 113 SPL - 1/10/24 - 19:30 RJH - 1/11/24 - 5:14 SMS-23 В Room 113 SPL - 1/10/24 - 19:30 RJH - 1/11/24 - 5:14 SMS-24 S Room 115 SPL - 1/10/24 - 19:32 RJH - 1/11/24 - 5:16 SPL - 1/10/24 - 19:32 RJH - 1/11/24 - 5:16 SMS-25 В Room 115

BF=Bottle Filling B=Bubbler

FW=Filtered Water **ICE**=Ice Machine



Project Number: J044517.01

Address: 3600 West Worley Street Columbia, Missouri

Sample ID	Fixture Type	Location	Flushed By - Date - Time	Sampled By - Date - Time
SMS-26	S	Room 116 - Left	SPL - 1/10/24 - 19:34	RJH - 1/11/24 - 5:17
SMS-27	S	Room 116 - Right	SPL - 1/10/24 - 19:34	SPL - 1/11/24 - 5:17
SMS-28	S	Room 117	SPL - 1/10/24 - 19:35	RJH - 1/11/24 - 5:18
SMS-29	В	Room 117	SPL - 1/10/24 - 19:35	RJH - 1/11/24 - 5:18
SMS-30	S	Room 118 - Left	RJH - 1/10/24 - 19:36	RJH - 1/11/24 - 5:19
SMS-31	S	Room 118 - Right	SPL - 1/10/24 - 19:36	SPL - 1/11/24 - 5:19
SMS-32	S	Room 141	RJH - 1/10/24 - 19:40	RJH - 1/11/24 - 5:22
SMS-33	ICE	Room 141	RJH - 1/10/24 - 19:40	SPL - 1/11/24 - 5:22
SMS-34	S	Room 160	SPL - 1/10/24 - 19:43	RJH - 1/11/24 - 5:25
SMS-35	В	Room 160	SPL - 1/10/24 - 19:43	RJH - 1/11/24 - 5:25
SMS-36	S	Room 161	SPL - 1/10/24 - 19:44	SPL - 1/11/24 - 5:25
SMS-37	S	Room 162	SPL - 1/10/24 - 19:45	RJH - 1/11/24 - 5:26
SMS-38	S	Room 163	SPL - 1/10/24 - 19:46	SPL - 1/11/24 - 5:27
SMS-39	S	Room 164	SPL - 1/10/24 - 19:48	RJH - 1/11/24 - 5:28
SMS-40	S	Room 165 - Left	SPL - 1/10/24 - 19:50	SPL - 1/11/24 - 5:30
SMS-41	S	Room 165 - Left Center	SPL - 1/10/24 - 19:50	SPL - 1/11/24 - 5:30
SMS-42	S	Room 165 - Right Center	SPL - 1/10/24 - 19:50	RJH - 1/11/24 - 5:30
SMS-43	S	Room 165 - Right	SPL - 1/10/24 - 19:50	RJH - 1/11/24 - 5:30
SMS-44	S	Room 166	SPL - 1/10/24 - 19:52	SPL - 1/11/24 - 5:31
SMS-45	S	Room 167 - Left	SPL - 1/10/24 - 19:54	SPL - 1/11/24 - 5:33
SMS-46	S	Room 167 - Left Center	SPL - 1/10/24 - 19:54	SPL - 1/11/24 - 5:33
SMS-47	S	Room 167 - Right Center	RJH - 1/10/24 - 19:54	SPL - 1/11/24 - 5:33
SMS-48	S	Room 167 - Right	RJH - 1/10/24 - 19:54	SPL - 1/11/24 - 5:33
SMS-49	S	Room 168	SPL - 1/10/24 - 19:55	SPL - 1/11/24 - 5:34
SMS-50	WF	Hallway at Room 150 - Left	SPL - 1/10/24 - 19:57	RJH - 1/11/24 - 5:36

BF=Bottle Filling B=Bubbler

FW=Filtered Water ICE=Ice Machine



Project Number: J044517.01

Address: 3600 West Worley Street Columbia, Missouri

Sample ID	Fixture Type	Location	Flushed By - Date - Time	Sampled By - Date - Time
SMS-51	WF	Hallway at Room 150 - Right	SPL - 1/10/24 - 19:57	SPL - 1/11/24 - 5:36
SMS-52	S	Room 150 - Left	RJH - 1/10/24 - 19:59	SPL - 1/11/24 - 5:38
SMS-53	В	Room 150 - Left	RJH - 1/10/24 - 19:59	SPL - 1/11/24 - 5:38
SMS-54	S	Room 150 - Right	SPL - 1/10/24 - 19:59	RJH - 1/11/24 - 5:38
SMS-55	В	Room 150 - Right	SPL - 1/10/24 - 19:59	RJH - 1/11/24 - 5:38
SMS-56	S	Room 152	SPL - 1/10/24 - 20:02	SPL - 1/11/24 - 5:39
SMS-57	S	Room 153 - Blue	SPL - 1/10/24 - 20:06	RJH - 1/11/24 - 5:41
SMS-58	S	Room 153 - Yellow	SPL - 1/10/24 - 20:06	RJH - 1/11/24 - 5:41
SMS-59	S	Room 153 - Orange	SPL - 1/10/24 - 20:06	RJH - 1/11/24 - 5:41
SMS-60	S	Room 153 - Green	SPL - 1/10/24 - 20:06	SPL - 1/11/24 - 5:41
SMS-61	S	Room 153 - Purple	SPL - 1/10/24 - 20:06	SPL - 1/11/24 - 5:41
SMS-62	S	Room 153 - Red	SPL - 1/10/24 - 20:06	SPL - 1/11/24 - 5:41
SMS-63	S	Room 154 - Left	SPL - 1/10/24 - 20:09	SPL - 1/11/24 - 5:42
SMS-64	S	Room 154 - Right	SPL - 1/10/24 - 20:09	SPL - 1/11/24 - 5:42
SMS-65	S	Room 155	SPL - 1/10/24 - 20:12	BJL - 1/11/24 - 5:43
SMS-66	BF	Room 181L	RJH - 1/10/24 - 20:14	RJH - 1/11/24 - 5:46
SMS-67	WF	Room 181L	RJH - 1/10/24 - 20:14	RJH - 1/11/24 - 5:46
SMS-68	BF	Room 180L	SPL - 1/10/24 - 20:16	SPL - 1/11/24 - 5:47
SMS-69	WF	Room 180L	SPL - 1/10/24 - 20:16	SPL - 1/11/24 - 5:47
SMS-70	WF	Room 99	SPL - 1/10/24 - 20:18	RJH - 1/11/24 - 5:49
SMS-71	WF	Room 98	SPL - 1/10/24 - 20:19	SPL - 1/11/24 - 5:50
SMS-72	WF	Room 97	SPL - 1/10/24 - 20:20	RJH - 1/11/24 - 5:50
SMS-73	S	Kitchen A	SPL - 1/10/24 - 20:23	SPL - 1/11/24 - 5:52
SMS-74	S	Kitchen B - Food Prep	SPL - 1/10/24 - 20:24	SPL - 1/11/24 - 5:53
SMS-75	S	Kitchen B - Dish Wash Left	SPL - 1/10/24 - 20:24	RJH - 1/11/24 - 5:53

BF=Bottle Filling B=Bubbler

FW=Filtered Water ICE=Ice Machine



Project Number: J044517.01

Address: 3600 West Worley Street Columbia, Missouri

Sample ID	Fixture Type	Location	Flushed By - Date - Time	Sampled By - Date - Time
SMS-76	S	Kitchen B - Dish Wash Center	SPL - 1/10/24 - 20:24	RJH - 1/11/24 - 5:54
SMS-77	S	Kitchen B - Dish Wash Right	SPL - 1/10/24 - 20:24	RJH - 1/11/24 - 5:54
SMS-78	ICE	Kitchen B	SPL - 1/10/24 - 20:25	SPL - 1/11/24 - 5:54
SMS-79	S	Kitchen B - Food Prep	RJH - 1/10/24 - 20:28	SPL - 1/11/24 - 5:54
SMS-80	BF	Hallway at Room 94R/95R - Left	RJH - 1/10/24 - 20:32	RJH - 1/11/24 - 4:55
SMS-81	WF	Hallway at Room 94R/95R - Left	RJH - 1/10/24 - 20:32	RJH - 1/11/24 - 4:55
SMS-82	BF	Hallway at Room 94R/95R - Right	RJH - 1/10/24 - 20:32	RJH - 1/11/24 - 4:55
SMS-83	WF	Hallway at Room 94R/95R - Right	RHJ - 1/10/24 - 20:32	RJH - 1/11/24 - 4:55
SMS-84	BF	Hallway at Room 202R - Left	RJH - 1/10/24 - 20:35	RJH - 1/11/24 - 6:00
SMS-85	WF	Hallway at Room 202R - Left	RJH - 1/10/24 - 20:35	RJH - 1/11/24 - 6:00
SMS-86	BF	Hallway at Room 202R - Right	SPL - 1/10/24 - 20:35	RJH - 1/11/24 - 6:00
SMS-87	WF	Hallway at Room 202R - Right	SPL - 1/10/24 - 20:35	RJH - 1/11/24 - 6:00
SMS-88	S	Room 201	SPL - 1/10/24 - 20:36	SPL - 1/11/24 - 6:01
SMS-89	В	Room 201	SPL - 1/10/24 - 20:36	SPL - 1/11/24 - 6:01
SMS-90	S	Room 203	SPL - 1/10/24 - 20:37	RJH - 1/11/24 - 6:02
SMS-91	В	Room 203	SPL - 1/10/24 - 20:37	RJH - 1/11/24 - 6:02
SMS-92	S	Room 205	SPL - 1/10/24 - 20:38	SPL - 1/11/24 - 6:03
SMS-93	В	Room 205	SPL - 1/10/24 - 20:38	SPL - 1/11/24 - 6:03
SMS-94	S	Room 206 - Left	RJH - 1/10/24 - 20:39	RJH - 1/1124 - 6:04
SMS-95	S	Room 206 - Right	RJH - 1/10/24 - 20:39	RJH - 1/11/24 - 6:04
SMS-96	S	Room 207	SPL - 1/10/24 - 20:40	SPL - 1/11-24 - 6:05
SMS-97	В	Room 207	SPL - 1/10/24 - 20:40	SPL - 1/11/24 - 6:05
SMS-98	S	Room 202	SPL - 1/10/24 - 20:44	RJH - 1/11/24 - 6:06
SMS-99	BF	Hallway at Room 210R - Left	RJH - 1/10/24 - 20:46	RJH - 1/11/24 - 6:08
SMS-100	WF	Hallway at Room 210R - Left	RJH - 1/10/24 - 20:46	RJH - 1/11/24 - 6:08

BF=Bottle Filling B=Bubbler

FW=Filtered Water ICE=Ice Machine



Project Name: Columbia Public Schools Water Sampling and Reporting Services

Building Name: Smithton Middle School

Project Number: J044517.01

Address: 3600 West Worley Street

Columbia,	Missouri

Sample ID	Fixture Type	Location	Flushed By - Date - Time	Sampled By - Date - Time
SMS-101	BF	Hallway at Room 210R - Right	SPL - 1/10/24 - 20:46	SPL - 1/11/24 - 6:08
SMS-102	WF	Hallway at Room 210R - Right	SPL - 1/10/24 - 20:46	SPL - 1/11/24 - 6:08
SMS-103	S	Room 211	SPL - 1/10/24 - 20:47	RJH - 1/11/24 - 6:09
SMS-104	В	Room 211	SPL - 1/10/24 - 20:47	RJH - 1/11/24 - 6:09
SMS-105	S	Room 213	SPL - 1/10/24 - 20:49	RJH - 1/11/24 - 6:10
SMS-106	В	Room 213	SPL - 1/10/24 - 20:49	RJH - 1/11/24 - 6:10
SMS-107	S	Room 215	SPL - 1/10/24 - 20:50	SPL - 1/11/24 - 6:11
SMS-108	В	Room 215	SPL - 1/10/24 - 20:50	SPLL - 1/11/24 - 6:11
SMS-109	S	Room 216 - Left	SPL - 1/10/24 - 20:52	SPL - 1/11/24 - 6:12
SMS-110	В	Room 216 - Right	SPL - 1/10/24 - 20:52	RJH - 1/11/24 - 6:12
SMS-111	S	Room 217	SPL - 1/10/24 - 20:54	SPL - 1/11/24 - 6:13
SMS-112	В	Room 217	SPL - 1/10/24 - 20:54	SPL - 1/11/24 - 6:13
SMS-113	S	Room 218 - Left	SPL - 1/10/24 - 20:56	RJH - 1/11/24 - 6:14
SMS-114	S	Room 218 - Right	SPL - 1/10/24 - 20:56	RJH - 1/11/24 - 6:14
SMS-115	S	Room 218 - Eyewash	SPL - 1/10/24 - 20:56	RJH - 1/11/24 - 6:14
SMS-01-2	S	Office F	BJL - 6/25/24 - 16:42	BJL - 6/26/24 - 3:07
SMS-02-2	S	Nurse	BJL - 6/25/24 - 16:43	BJL - 6/26/24 - 3:08
SMS-58-2	S	Room 153 - Yellow	BJL - 6/25/24 - 16:48	BJL - 6/26/24 - 3:11
SMS-59-2	S	Room 153 - Orange	BJL - 6/25/24 - 16:48	BJL - 6/26/24 - 3:12
SMS-60-2	S	Room 153 - Green	BJL - 6/25/24 - 16:48	BJL - 6/26/24 - 3:13
SMS-61-2	S	Room 153 - Purple	BJL - 6/25/24 - 16:48	BJL - 6/26/24 - 3:14
SMS-62-2	S	Room 153 - Red	BJL - 6/25/24 - 16:48	BJL - 6/26/24 - 3:15
SMS-74-2	S	Kitchen B - Food Prep	BJL - 6/25/24 - 17:04	BJL - 6/26/24 - 3:18
SMS-58-3	S	Room 153 - Yellow	CPS Staff - 9/18/24	BJL - 9/19/24 - 5:37
SMS-60-3	S	Room 153 - Green	CPS Staff - 9/18/24	BJL - 9/19/24 - 5:39

**BF=Bottle Filling** B=Bubbler

FW=Filtered Water **ICE=Ice Machine** 



Project Number: J044517.01

Address: 3600 West Worley Street Columbia, Missouri

Sample ID	Fixture Type	Location	Flushed By - Date - Time	Sampled By - Date - Time
SMS-61-3	S	Room 153 - Purple	CPS Staff - 9/18/24	BJL - 9/19/24 - 5:39
SMS-62-3	S	Room 153 - Red	CPS Staff - 9/18/24	BJL - 9/19/24 - 5:40

BF=Bottle Filling B=Bubbler

FW=Filtered Water ICE=Ice Machine



### APPENDIX C

### DRINKING WATER LABORATORY DATA SHEETS



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

February 12, 2024

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

**RE:** J044517.01



WorkOrder: 24011312

Dear Brad Lohrum:

TEKLAB, INC received 61 samples on 1/19/2024 10:12:00 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,

Patrick Riley Project Manager (618)344-1004 ex 44 patrickriley@teklabinc.com



### **Report Contents**

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Client Project: J044517.01

### Work Order: 24011312 Report Date: 12-Feb-24

This reporting package includes the following:

1
2
3
5
6
7
9
Appended



### **Definitions**

http://www.teklabinc.com/

#### Client: Geotechnology, Inc.

Client Project: J044517.01

Work Order: 24011312

Report Date: 12-Feb-24

#### **Abbr Definition**

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



### Definitions

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

Client: Geotechnology, Inc.

#### Client Project: J044517.01

# Work Order: 24011312

### Report Date: 12-Feb-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: 24011312 Report Date: 12-Feb-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/

Work Order: 24011312 Report Date: 12-Feb-24

### Client: Geotechnology, Inc.

### Client Project: J044517.01

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



### **Laboratory Results**

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

Work Order: 24011312

Report Date: 12-Feb-24

Client: Geotechnology, Inc.

Client Project: J044517.01

Matrix: DRINKING WATER

EPA 600 4.1.4, 200.8 R5.4, METALS BY ICPMS (TOTAL)           Lead           2411312-007A         SMS-01         NELAP         1.0         6.0         µgl.         5         0208/2024 8.19         01/11/2024 4.51           2401312-007A         SMS-02         NELAP         1.0         6.0         µgl.         1         021/2024 1.12         01/11/2024 5.04           2401312-007A         SMS-04         NELAP         1.0         <1.0         µgl.         1         021/2024 1.12         01/11/2024 5.04           2401312-007A         SMS-06         NELAP         1.0         <1.0         µgl.         1         021/2024 1.12         01/11/2024 5.04           2401312-007A         SMS-07         NELAP         1.0         2.3         µgl.         5         0208/2024 1.85         01/11/2024 4.57           2401312-007A         SMS-10         NELAP         1.0         3.14         µgl.         5         0208/2024 1.83         01/11/2024 4.57           2401312-017A         SMS-11         NELAP         1.0         3.14         µgl.         1         021/92024 1.10         01/11/12024 5.05           2401312-017A         SMS-13         NELAP         1.0         1.0         µgl.         1         0208/2024 1.13	Sample ID	Client Sample ID	Certification Qual	RL	Result	Units	DF	Date Analyzed	Date Collected
Lead           24011312-001A         SMS-01         NELAP         1.0         6.0         µg1.         5         0208/2024 8:19         01/11/2024 4:51           24011312-003A         SMS-03         NELAP         1.0         6.0         µg1.         1         021/2024 0:161         01/11/2024 4:52           24011312-003A         SMS-03         NELAP         1.0         <1.0         µg1.         1         021/2024 0:161         01/11/2024 6:34           24011312-006A         SMS-00         NELAP         1.0         <1.0         µg1.         1         021/2024 1:26         01/11/2024 6:57           24011312-006A         SMS-00         NELAP         1.0 <b>53.1</b> µg1.         5         0208/2024 8:50         01/11/2024 4:57           24011312-016A         SMS-10         NELAP         1.0 <b>53.1</b> µg1.         1         0208/2024 1:50         01/11/2024 5:57           24011312-016A         SMS-10         NELAP         1.0 <b>33.1</b> µg1.         1         0208/2024 1:50         01/11/2024 5:07           24011312-016A         SMS-12         NELAP         1.0         1.0         µg1.         1         0208/2024 1:51         01/11/2024 5:03           24011312-01	EPA 600 4.1.4	, 200.8 R5.4, META	LS BY ICPMS (TOTAL)						
24011312-002A         SMS-02         NELAP         1.0         ••0L         5         0.0280204.8:4         0.01112024.6:54           24011312-003A         SMS-03         NELAP         1.0         <1.0         µgl.         1         0.02122024.1:52         0.01112024.5:54           24011312-006A         SMS-06         NELAP         1.0         <1.0         µgl.         1         0.02122024.1:52         0.01112024.5:57           24011312-006A         SMS-06         NELAP         1.0         5.3         µgl.         5         0.2082024.8:50         0.01112024.5:55           24011312-010A         SMS-10         NELAP         1.0         5.1         µgl.         5         0.2082024.8:68         0.01112024.5:55           24011312-01A         SMS-13         NELAP         1.0         5.1         µgl.         1         0.2092024.16:66         0.01112024.5:05           24011312-01A         SMS-13         NELAP         1.0         5.0         0.2082024.16:16         0.01112024.5:07           24011312-01A         SMS-13         NELAP         1.0         1.0         0.009.1         1         0.2092024.16:16         0.01112024.5:07           24011312-01A         SMS-17         NELAP         1.0         5.0 <td< th=""><th></th><th></th><th>, , , , , , , , , , , , , , , , , , ,</th><th></th><th></th><th></th><th></th><th></th><th></th></td<>			, , , , , , , , , , , , , , , , , , ,						
24011312-002A         SMS-02         NELAP         1.0         c.0         μg/L         5         02082024-024         0.01/11/2024-504           24011312-00A         SMS-04         NELAP         1.0         <1.0         μg/L         1         0.2/12/2024 11:22         0.1/11/2024-504           24011312-00A         SMS-04         NELAP         1.0         <1.0         μg/L         1         0.2/12/2024 11:26         0.1/11/2024-537           24011312-00A         SMS-06         NELAP         1.0         53.1         μg/L         5         0.208/2024-650         0.1/11/2024-657           24011312-01A         SMS-10         NELAP         1.0         51.1         μg/L         1         0.2/12/2024 12:10         0.1/11/2024-505           24011312-01A         SMS-13         NELAP         1.0         51.0         μg/L         1         0.2/12/2024 12:10         0.1/11/2024-507           24011312-01A         SMS-13         NELAP         1.0         51.0         μg/L         1         0.2/12/2024 16:10         0.1/11/2024-509           24011312-01A         SMS-15         NELAP         1.0         51.0         μg/L         1         0.2/12/2024 16:10         0.1/11/2024 5:03           24011312-01A         SMS-17	24011312-001	A SMS-01	NELAP	1.0	12.7	µg/L	5	02/08/2024 8:19	01/11/2024 4:51
24011312-003A         SMS-03         NELAP         1.0         <1.0	24011312-002	A SMS-02	NELAP				5		01/11/2024 4:52
24011312:00A         SMS-06         NELAP         1.0         1.0         02/02/204         0/11/2024         5.0           24011312:00A         SMS-07         NELAP         1.0         1.3         µg/L         1         02/02/204         0/11/2024         5.5           24011312:00A         SMS-07         NELAP         1.0         5.3         µg/L         5         02/08/204         5.6         01/11/2024         5.5           2401312:00A         SMS-10         NELAP         1.0         5.14         µg/L         1         02/08/204         5.6         01/11/2024         5.5           2401312:01A         SMS-10         NELAP         1.0         5.14         µg/L         1         02/08/204         1.6         01/11/2024         5.07           24011312:01A         SMS-13         NELAP         1.0         1.0         02/09/204         1.6         01/11/2024         5.09           24011312:01A         SMS-16         NELAP         1.0         5.02         µg/L         1         02/09/204         1.6         01/11/2024         5.09           24011312:01A         SMS-16         NELAP         1.0         4.10         µg/L         1         02/09/204         1.6	24011312-003	A SMS-03					1	02/12/2024 10:16	01/11/2024 5:04
24011312-006A       SMS-00       NELAP       1.0       +1.0       uplL       1       02/02/2024 16:28       01/11/2024 45:74         24011312-006A       SMS-08       NELAP       1.0       23.1       uplL       5       02/08/2024 8:54       01/11/2024 4:57         24011312-006A       SMS-08       NELAP       1.0       35.1       uplL       1       02/08/2024 8:54       01/11/2024 5:05         24011312-014A       SMS-11       NELAP       1.0       31.4       uplL       1       02/08/2024 8:58       01/11/2024 5:07         24011312-014A       SMS-12       NELAP       1.0       15.5       uplL       1       02/08/2024 8:58       01/11/2024 5:07         24011312-015A       SMS-13       NELAP       1.0       15.0       uplL       1       02/08/2024 1:61       01/11/2024 5:07         24011312-016A       SMS-16       NELAP       1.0       1.0       uplL       1       02/08/2024 1:61       01/11/2024 5:11         24011312-016A       SMS-16       NELAP       1.0       6.0       uplL       1       02/08/2024 1:61       01/11/2024 5:13         24011312-016A       SMS-20       NELAP       1.0       e3.6       uplL       1       02/08/2024 0:62       01/1	24011312-004	A SMS-04	NELAP				1	02/12/2024 11:22	01/11/2024 5:04
24011312-007A       SMS-07       NELAP       1.0       1.3       µg/L       5       02/12/204 11:20       0/11/12/04 4:57         24011312-008A       SMS-08       NELAP       1.0       23.5       µg/L       5       02/08/204 8:50       0/11/12/04 4:57         24011312-010A       SMS-10       NELAP       1.0       41.0       µg/L       5       02/08/204 8:50       0/11/12/04 5:05         24011312-01A       SMS-12       NELAP       1.0       41.6       µg/L       1       02/08/204 8:50       0/11/12/04 5:05         24011312-01A       SMS-12       NELAP       1.0       41.0       µg/L       1       02/08/204 16:10       0/11/12/04 5:07         24011312-01A       SMS-14       NELAP       1.0       41.0       µg/L       1       02/08/204 16:10       0/11/12/04 5:09         24011312-01A       SMS-15       NELAP       1.0       <1.0	24011312-006	A SMS-06	NELAP				1	02/09/2024 16:28	01/11/2024 5:04
24011312-008A       SMS-08       NELAP       1.0       25.1       µg/L       5       02/08/2024 8:50       01/11/2024 4:57         24011312-010A       SMS-10       NELAP       1.0       <1.0	24011312-007	A SMS-07	NELAP	1.0	1.3		1	02/12/2024 11:26	01/11/2024 4:57
24011312-009A         SMS-09         NELAP         1.0         35.1         μg/L         5         02082024 8:54         0/1/12024 5:05           24011312-010A         SMS-10         NELAP         1.0         31.4         μg/L         5         02082024 8:56         0/1/12024 5:07           24011312-011A         SMS-11         NELAP         1.0         <1.0	24011312-008	A SMS-08	NELAP	1.0			5	02/08/2024 8:50	01/11/2024 4:57
24011312-010A         SNNS-10         NELAP         1.0         <1.0         μpL         1         02/12/2024 12:10         01/11/2024 5:07           24011312-011A         SNNS-11         NELAP         1.0         <1.0	24011312-009	A SMS-09	NELAP	1.0			5	02/08/2024 8:54	01/11/2024 5:05
24011312-011A       SMS-11       NELAP       1.0 <b>31.4</b> µgL       5       0208/2024 6:58       01/11/2024 5:07         24011312-012A       SMS-13       NELAP       1.0 <b>18.6</b> µgL       1       0209/2024 16:10       01/11/2024 5:09         24011312-014A       SMS-14       NELAP       1.0 <b>18.6</b> µgL       1       0209/2024 16:10       01/11/2024 5:09         24011312-017A       SMS-16       NELAP       1.0 <b>20.0</b> µgL       1       0208/2024 16:10       01/11/2024 5:01         24011312-017A       SMS-16       NELAP       1.0 <b>50.4</b> µgL       1       0208/2024 16:10       01/11/2024 5:13         24011312-017A       SMS-18       NELAP       1.0 <b>51.0</b> 0208/2024 0:43       01/11/2024 5:13         24011312-017A       SMS-21       NELAP       1.0 <b>51.0</b> 0208/2024 0:50       01/11/2024 5:13         24011312-021A       SMS-21       NELAP       1.0 <b>51.0</b> 0208/2024 0:50       01/11/2024 5:13         24011312-022A       SMS-23       NELAP       1.0 <b>50.0</b> 0208/2024 0:50       01/11/2024 5:14         24011312-022A       SMS-23       NELAP       1.0 <b>50</b>	24011312-010	A SMS-10	NELAP	1.0			1	02/12/2024 12:10	01/11/2024 5:05
24011312-012A       SMS-12       NELAP       1.0       <1.0	24011312-011	A SMS-11	NELAP	1.0	31.4		5	02/08/2024 8:58	01/11/2024 5:07
24011312-013A       SMS-13       NELAP       1.0       185       µg/L       1       02/02/024 10:11       01/11/2024 5:09         24011312-014A       SMS-15       NELAP       1.0       100       µg/L       1       02/09/2024 10:15       01/11/2024 5:09         24011312-016A       SMS-16       NELAP       1.0       20.2       µg/L       1       02/09/2024 10:10       01/11/2024 5:11         24011312-017A       SMS-16       NELAP       1.0       <1.0	24011312-012	A SMS-12	NELAP	1.0			1	02/09/2024 16:06	01/11/2024 5:07
24011312-014A       SMS-14       NELAP       1.0       19.0       µg/L       1       02/09/2024 16:15       01/11/2024 5:09         24011312-015A       SMS-15       NELAP       1.0       <1.0	24011312-013	A SMS-13	NELAP	1.0	18.5		1	02/12/2024 10:11	01/11/2024 5:08
24011312-016A       SMS-15       NELAP       1.0       <1.0	24011312-014	A SMS-14	NELAP	1.0	19.0		1	02/09/2024 16:10	01/11/2024 5:09
24011312-016A       SMS-16       NELAP       1.0       20.2       µg/L       1       0.208/2024 1:3       0.11/12024 5:11         24011312-017A       SMS-17       NELAP       1.0       50.4       µg/L       1       0.208/2024 1:33       0.11/12024 5:13         24011312-019A       SMS-19       NELAP       1.0       <1.0	24011312-015	A SMS-15	NELAP	1.0	< 1.0		1	02/09/2024 16:15	01/11/2024 5:09
24011312-018A       SMS-18       NELAP       1.0       <1.0	24011312-016	A SMS-16	NELAP	1.0	20.2		1	02/08/2024 1:13	01/11/2024 5:11
24011312-019A       SMS-19       NELAP       1.0       <1.0	24011312-017	A SMS-17	NELAP	1.0	50.4		1	02/09/2024 16:19	01/11/2024 5:11
24011312-020ASMS-20NELAP1.0<1.0 $\mu g/L$ 102/08/2024 0:5201/11/2024 5:1324011312-021ASMS-21NELAP1.0<1.0	24011312-018	A SMS-18	NELAP	1.0	< 1.0	µg/L	1	02/08/2024 0:43	01/11/2024 5:13
24011312-021A       SMS-21       NELAP       1.0       <1.0	24011312-019	A SMS-19	NELAP	1.0	< 1.0	µg/L	1	02/08/2024 0:47	01/11/2024 5:13
24011312-022A       SMS-22       NELAP       1.0       36.8       µg/L       5       02/08/2024 9:03       01/11/2024 5:14         24011312-023A       SMS-23       NELAP       1.0       <1.0	24011312-020	A SMS-20	NELAP	1.0	< 1.0	µg/L	1	02/08/2024 0:52	01/11/2024 5:13
24011312-023A         SMS-23         NELAP         1.0         <1.0         µg/L         1         02/08/2024 1:00         01/11/2024 5:14           24011312-024A         SMS-26         NELAP         1.0         16.8         µg/L         1         02/08/2024 1:05         01/11/2024 5:16           24011312-025A         SMS-26         NELAP         1.0         1.3         µg/L         5         02/08/2024 9:11         01/11/2024 5:17           24011312-027A         SMS-27         NELAP         1.0         207         µg/L         5         02/08/2024 9:10         01/11/2024 5:17           24011312-027A         SMS-27         NELAP         1.0         78.7         µg/L         5         02/08/2024 9:24         01/11/2024 5:17           24011312-028A         SMS-28         NELAP         1.0         78.7         µg/L         5         02/08/2024 9:24         01/11/2024 5:18           24011312-031A         SMS-30         NELAP         1.0 <b>281</b> µg/L         5         02/08/2024 9:28         01/11/2024 5:19           24011312-031A         SMS-33         NELAP         1.0 <b>410</b> µg/L         1         02/08/2024 1:0:0         01/11/2024 5:29           24011312-033A         SMS-33	24011312-021	A SMS-21	NELAP	1.0	< 1.0	µg/L	1	02/08/2024 0:56	01/11/2024 5:13
24011312-024A         SMS-24         NELAP         1.0         16.8         µg/L         1         02/08/2024 1:05         01/11/2024 5:16           24011312-025A         SMS-25         NELAP         1.0         1.3         µg/L         5         02/08/2024 9:07         01/11/2024 5:17           24011312-027A         SMS-27         NELAP         1.0         207         µg/L         5         02/08/2024 9:16         01/11/2024 5:17           24011312-027A         SMS-27         NELAP         1.0         207         µg/L         5         02/08/2024 9:20         01/11/2024 5:18           24011312-028A         SMS-28         NELAP         1.0         <1.0	24011312-022	A SMS-22	NELAP	1.0	<b>36.8</b>	µg/L	5	02/08/2024 9:03	01/11/2024 5:14
24011312-025ASMS-25NELAP1.01.3µg/L502/08/2024 9:0701/11/2024 5:1624011312-026ASMS-26NELAP1.0220µg/L502/08/2024 9:1101/11/2024 5:1724011312-027ASMS-27NELAP1.0207µg/L502/08/2024 9:2001/11/2024 5:1824011312-028ASMS-28NELAP1.078.7µg/L502/08/2024 9:2001/11/2024 5:1824011312-029ASMS-29NELAP1.0<1.0	24011312-023	A SMS-23	NELAP	1.0	< 1.0	µg/L	1	02/08/2024 1:00	01/11/2024 5:14
24011312-026ASMS-26NELAP1.0220 $\mu g/L$ 502/08/2024 9:1101/11/2024 5:1724011312-027ASMS-27NELAP1.0207 $\mu g/L$ 502/08/2024 9:2001/11/2024 5:1724011312-028ASMS-28NELAP1.0 <b>76.7</b> $\mu g/L$ 502/08/2024 9:2001/11/2024 5:1824011312-029ASMS-29NELAP1.0 <b>78.7</b> $\mu g/L$ 502/08/2024 9:2801/11/2024 5:1924011312-03ASMS-30NELAP1.0 <b>281</b> $\mu g/L$ 502/08/2024 9:2801/11/2024 5:1924011312-03ASMS-31NELAP1.0 <b>184</b> $\mu g/L$ 502/08/2024 1:0601/11/2024 5:2224011312-03ASMS-33NELAP1.0<1.0	24011312-024	A SMS-24	NELAP	1.0	<mark>16.8</mark>	µg/L	1	02/08/2024 1:05	01/11/2024 5:16
24011312-027ASMS-27NELAP1.0207µg/L502/08/2024 9:1601/11/2024 5:1724011312-028ASMS-28NELAP1.0<1.0	24011312-025	A SMS-25	NELAP	1.0	1.3	µg/L	5	02/08/2024 9:07	01/11/2024 5:16
24011312-028ASMS-28NELAP1.0 <b>78.7</b> µg/L502/08/2024 9:2001/11/2024 5:1824011312-029ASMS-29NELAP1.0 <b>&lt;1.0</b> µg/L502/08/2024 9:2801/11/2024 5:1924011312-031ASMS-30NELAP1.0 <b>281</b> µg/L502/08/2024 10:0601/11/2024 5:1924011312-031ASMS-31NELAP1.0 <b>184</b> µg/L502/08/2024 10:0601/11/2024 5:2924011312-033ASMS-33NELAP1.0 <b>&lt;1.0</b> µg/L102/08/2024 10:0901/11/2024 5:2524011312-03ASMS-33NELAP1.0 <b>&lt;1.0</b> µg/L102/08/2024 10:1001/11/2024 5:2524011312-03ASMS-33NELAP1.0 <b>&lt;1.0</b> µg/L102/08/2024 1:3901/11/2024 5:2524011312-03ASMS-35NELAP1.0 <b>&lt;1.0</b> µg/L102/08/2024 1:3901/11/2024 5:2524011312-03ASMS-36NELAP1.0 <b>&lt;1.0</b> µg/L102/08/2024 1:4401/11/2024 5:2524011312-03ASMS-36NELAP1.0 <b>&lt;1.0</b> µg/L102/08/2024 1:5201/11/2024 5:2624011312-03ASMS-33NELAP1.0 <b>&lt;1.0</b> µg/L102/08/2024 1:5201/11/2024 5:2624011312-03ASMS-36NELAP1.0 <b>&lt;1.0</b> µg/L102/08/2024 1:5201/11/2024 5:2624011312-04ASMS-37NELAP1.0 <b>&lt;1.0</b> µg/L502/08/2024 10:701/11/2024 5:36	24011312-026	A SMS-26	NELAP	1.0	220	µg/L	5	02/08/2024 9:11	01/11/2024 5:17
24011312-029ASMS-29NELAP1.0<1.0µg/L502/08/2024 9:2401/11/2024 5:1824011312-030ASMS-30NELAP1.0281µg/L502/08/2024 9:2801/11/2024 5:1924011312-031ASMS-31NELAP1.0184µg/L502/08/2024 10:0601/11/2024 5:1924011312-032ASMS-32NELAP1.0<1.0	24011312-027	A SMS-27	NELAP	1.0	207	µg/L	5	02/08/2024 9:16	01/11/2024 5:17
24011312-030ASMS-30NELAP1.0281µg/L502/08/2024 9:2801/11/2024 5:1924011312-031ASMS-31NELAP1.0184µg/L502/08/2024 10:0601/11/2024 5:2224011312-032ASMS-32NELAP1.0<1.0	24011312-028	A SMS-28	NELAP	1.0	78.7	µg/L	5	02/08/2024 9:20	01/11/2024 5:18
24011312-031ASMS-31NELAP1.0184µg/L502/08/2024 10:0601/11/2024 5:1924011312-032ASMS-32NELAP1.0<1.0	24011312-029	A SMS-29	NELAP	1.0	< 1.0	µg/L	5	02/08/2024 9:24	01/11/2024 5:18
24011312-032ASMS-32NELAP1.0<1.0<1.0 $\mu g/L$ 502/08/2024 10:1001/11/2024 5:2224011312-033ASMS-33NELAP1.0<1.0	24011312-030	A SMS-30	NELAP	1.0	281	µg/L	5	02/08/2024 9:28	01/11/2024 5:19
24011312-033ASMS-33NELAP1.0<1.0µg/L102/08/2024 1:0901/11/2024 5:2224011312-034ASMS-34NELAP1.028.5µg/L102/08/2024 1:3901/11/2024 5:2524011312-035ASMS-35NELAP1.0<1.0	24011312-031	A SMS-31	NELAP	1.0	<mark>184</mark>	µg/L	5	02/08/2024 10:06	01/11/2024 5:19
24011312-034ASMS-34NELAP1.028.5µg/L102/08/2024 1:3901/11/2024 5:2524011312-035ASMS-35NELAP1.0<1.0	24011312-032	A SMS-32	NELAP	1.0	< 1.0	µg/L	5	02/08/2024 10:10	01/11/2024 5:22
24011312-035ASMS-35NELAP1.0<1.0µg/L102/09/2024 17:1101/11/2024 5:2524011312-036ASMS-36NELAP1.0<1.0	24011312-033	A SMS-33	NELAP	1.0	< 1.0	µg/L	1	02/08/2024 1:09	01/11/2024 5:22
24011312-036ASMS-36NELAP1.0<1.0μg/L102/08/2024 1:4401/11/2024 5:2524011312-037ASMS-37NELAP1.01.2μg/L102/08/2024 1:4801/11/2024 5:2624011312-038ASMS-38NELAP1.06.1μg/L102/08/2024 1:5701/11/2024 5:2724011312-039ASMS-39NELAP1.0<1.0	24011312-034	A SMS-34	NELAP	1.0	28.5	µg/L	1	02/08/2024 1:39	01/11/2024 5:25
24011312-037ASMS-37NELAP1.01.2µg/L102/08/2024 1:4801/11/2024 5:2624011312-038ASMS-38NELAP1.06.1µg/L102/08/2024 1:5201/11/2024 5:2724011312-039ASMS-39NELAP1.0<1.0	24011312-035	A SMS-35	NELAP	1.0	< 1.0	µg/L	1	02/09/2024 17:11	01/11/2024 5:25
24011312-038ASMS-38NELAP1.06.1µg/L102/08/2024 1:5201/11/2024 5:2724011312-039ASMS-39NELAP1.0<1.0	24011312-036	A SMS-36	NELAP	1.0	< 1.0	µg/L	1	02/08/2024 1:44	01/11/2024 5:25
24011312-039ASMS-39NELAP1.0<1.0µg/L102/08/2024 1:5701/11/2024 5:2824011312-040ASMS-40NELAP1.021.4µg/L502/08/2024 10:1401/11/2024 5:3024011312-041ASMS-41NELAP1.016.1µg/L502/08/2024 10:3601/11/2024 5:3024011312-042ASMS-42NELAP1.012.6µg/L502/08/2024 10:3801/11/2024 5:3024011312-043ASMS-43NELAP1.022.2µg/L502/08/2024 10:2301/11/2024 5:3024011312-043ASMS-44NELAP1.022.2µg/L502/08/2024 10:2301/11/2024 5:3024011312-044ASMS-44NELAP1.0<1.0	24011312-037	A SMS-37	NELAP	1.0	1.2	µg/L	1	02/08/2024 1:48	01/11/2024 5:26
24011312-040ASMS-40NELAP1.021.4µg/L502/08/2024 10:1401/11/2024 5:3024011312-041ASMS-41NELAP1.016.1µg/L502/08/2024 10:3601/11/2024 5:3024011312-042ASMS-42NELAP1.012.6µg/L502/08/2024 10:1801/11/2024 5:3024011312-043ASMS-43NELAP1.022.2µg/L502/08/2024 10:2301/11/2024 5:3024011312-044ASMS-44NELAP1.021.0µg/L102/08/2024 10:2301/11/2024 5:3124011312-045ASMS-45NELAP1.019.0µg/L502/08/2024 10:2701/11/2024 5:3324011312-046ASMS-46NELAP1.019.4µg/L502/08/2024 10:3101/11/2024 5:3324011312-047ASMS-47NELAP1.07.8µg/L502/06/2024 14:5501/11/2024 5:3324011312-048ASMS-48NELAP1.010.8µg/L502/06/2024 14:5501/11/2024 5:33	24011312-038	A SMS-38	NELAP	1.0	<mark>6.1</mark>	µg/L	1	02/08/2024 1:52	01/11/2024 5:27
24011312-041ASMS-41NELAP1.016.1µg/L502/08/2024 10:3601/11/2024 5:3024011312-042ASMS-42NELAP1.012.6µg/L502/08/2024 10:1801/11/2024 5:3024011312-043ASMS-43NELAP1.022.2µg/L502/08/2024 10:2301/11/2024 5:3024011312-044ASMS-44NELAP1.0<1.0	24011312-039	A SMS-39	NELAP	1.0	< 1.0	µg/L	1	02/08/2024 1:57	01/11/2024 5:28
24011312-042ASMS-42NELAP1.012.6µg/L502/08/2024 10:1801/11/2024 5:3024011312-043ASMS-43NELAP1.022.2µg/L502/08/2024 10:2301/11/2024 5:3024011312-044ASMS-44NELAP1.0<1.0	24011312-040	A SMS-40	NELAP	1.0	21.4	µg/L	5	02/08/2024 10:14	01/11/2024 5:30
24011312-043ASMS-43NELAP1.0 <b>22.2</b> µg/L502/08/2024 10:2301/11/2024 5:3024011312-044ASMS-44NELAP1.0<1.0	24011312-041	A SMS-41	NELAP	1.0	16.1	µg/L	5	02/08/2024 10:36	01/11/2024 5:30
24011312-044ASMS-44NELAP1.0<1.0µg/L102/08/2024 2:0101/11/2024 5:3124011312-045ASMS-45NELAP1.019.0µg/L502/08/2024 10:2701/11/2024 5:3324011312-046ASMS-46NELAP1.019.4µg/L502/08/2024 10:3101/11/2024 5:3324011312-047ASMS-47NELAP1.07.8µg/L502/06/2024 14:5501/11/2024 5:3324011312-048ASMS-48NELAP1.010.8µg/L502/06/2024 14:5501/11/2024 5:33	24011312-042	A SMS-42	NELAP	1.0	12.6	µg/L	5	02/08/2024 10:18	01/11/2024 5:30
24011312-045ASMS-45NELAP1.019.0µg/L502/08/2024 10:2701/11/2024 5:3324011312-046ASMS-46NELAP1.019.4µg/L502/08/2024 10:3101/11/2024 5:3324011312-047ASMS-47NELAP1.07.8µg/L502/06/2024 14:5501/11/2024 5:3324011312-048ASMS-48NELAP1.010.8µg/L502/06/2024 14:5901/11/2024 5:33	24011312-043					µg/L	5		
24011312-046ASMS-46NELAP1.019.4µg/L502/08/2024 10:3101/11/2024 5:3324011312-047ASMS-47NELAP1.07.8µg/L502/06/2024 14:5501/11/2024 5:3324011312-048ASMS-48NELAP1.010.8µg/L502/06/2024 14:5901/11/2024 5:33	24011312-044		NELAP		< 1.0	µg/L	1		
24011312-047A         SMS-47         NELAP         1.0 <b>7.8</b> µg/L         5         02/06/2024         11/2024         5:33           24011312-048A         SMS-48         NELAP         1.0 <b>10.8</b> µg/L         5         02/06/2024         11/2024         5:33									
24011312-048A SMS-48 NELAP 1.0 <b>10.8</b> µg/L 5 02/06/2024 14:59 01/11/2024 5:33									
24011312-049A SMS-49 ΝΕLAP 1.0 <b>1.0</b> μg/L 1 02/08/2024 2:05 01/11/2024 5:34									
	24011312-049	a SMS-49	NELAP	1.0	1.0	µg/L	1	02/08/2024 2:05	01/11/2024 5:34



### **Laboratory Results**

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

Client: Geotechnology, Inc.

#### Client Project: J044517.01

Matrix: DRINKING WATER

Sample ID	Client Sample ID	Certification Qual	RL	Result	Units	Units DF Date Analy		Date Collected
EPA 600 4.1.4	4, 200.8 R5.4, META	LS BY ICPMS (TOTAL)	)					
Lead								
24011312-050	A SMS-50	NELAP	1.0	< 1.0	µg/L	1	02/08/2024 3:06	01/11/2024 5:36
24011312-051	A SMS-51	NELAP	1.0	< 1.0	µg/L	1	02/08/2024 2:36	01/11/2024 5:36
24011312-052	A SMS-52	NELAP	1.0	28.4	µg/L	1	02/08/2024 2:40	01/11/2024 5:38
24011312-053	A SMS-53	NELAP	1.0	< 1.0	µg/L	1	02/08/2024 2:44	01/11/2024 5:38
24011312-054	A SMS-54	NELAP	1.0	<b>16.4</b>	µg/L	1	02/12/2024 11:35	01/11/2024 5:38
24011312-055	A SMS-55	NELAP	1.0	< 1.0	µg/L	1	02/08/2024 2:49	01/11/2024 5:38
24011312-056	A SMS-56	NELAP	1.0	2.0	µg/L	1	02/08/2024 2:53	01/11/2024 5:39
24011312-057	A SMS-57	NELAP	1.0	3.8	µg/L	1	02/08/2024 2:57	01/11/2024 5:41
24011312-058	A SMS-58	NELAP	1.0	41.5	µg/L	5	02/06/2024 15:29	01/11/2024 5:41
24011312-059	A SMS-59	NELAP	1.0	11.0	µg/L	5	02/06/2024 15:33	01/11/2024 5:41
24011312-060	A SMS-60	NELAP	1.0	9.9	µg/L	1	02/08/2024 3:01	01/11/2024 5:41

### Work Order: 24011312

Report Date: 12-Feb-24



### **Receiving Check List**

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Client Project: J044517.01

Work Order: 24011312 Report Date: 12-Feb-24

Carrier: Employee Completed by: On: 19-Jan-24 Amber Dilallo	Revi O	ved By: NR lewed by: n: an-24 H	Ellee) Hopke	nD									
Pages to follow: Chain of custody 6	Extra pages included	i 0	_										
Shipping container/cooler in good condition?	Yes 🖌	No	Not Present	Temp °C N/A									
Type of thermal preservation?	None 🗹	Ice 🗌	Blue Ice	Dry Ice									
Chain of custody present?	Yes 🗹	No 🔄											
Chain of custody signed when relinquished and received?	Yes 🗹	No 🔄											
Chain of custody agrees with sample labels?	Yes	No 🗹											
Samples in proper container/bottle?	Yes 🗹	No 🔄											
Sample containers intact?	Yes 🗹	No											
Sufficient sample volume for indicated test?	Yes 🗹	No											
All samples received within holding time?	Yes 🖌	No											
Reported field parameters measured:	Field	Lab 🗌	NA 🗹										
Container/Temp Blank temperature in compliance?	Yes 🗹	No 🗌											
When thermal preservation is required, samples are 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 🖌										
Water - TOX containers have zero headspace?	Yes	No	No TOX containers										
Water - pH acceptable upon receipt?	Yes 🗹	No	NA 🗌										
NPDES/CWA TCN interferences checked/treated in the field?	Yes	No 🗌	NA 🗹										
Any No responses n	nust be detailed belo	ow or on the	coc.										

Samples were checked for turbidity and then preserved with nitric acid upon arrival in the laboratory. - amberdilallo - 1/19/2024 10:47:53 AM

Received two bottles labeled SMS-05. Both put into storage, unable to identify. MEK 1/19/24

CHAIN OF CUSTODY

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

Client:	Client: Geotechnology, LLC												es c	on:		ICE	<b>1</b>	BLUE	E ICE	卤	NOIC	E	Δ	VA	0	2	LTG	#		
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City / State	/ Zip St. Louis, MO 63	3146									Lab	No	otes	;	/															and the second se
Contact:	Brad Lohrum		Phone	):	(314	) 997	-744	0			-	• > •	~ I	h	1	<u></u>		اصا	00	<	- Sm	۔ م	~~	m	EK	1/19	24			- Andrews
E-Mail:	blohrum@teamues.com		Fax:	-							Clier								<u><u> </u></u>	, <b>1</b>					····· /					
Are these sample Are there any requiring in the comm	e these samples known to be involved in litigation? If yes, a surcharge will apply Yes Y No e these samples known to be hazardous? Yes No e there any required reporting limits to be met on the requested analysis?. If yes, please provide its in the comment section. Yes No Project Name/Number Sample Collector's Name																													
Project Name/Number Sample Collector's Name											MATRIX INDICATE ANALYSIS REQUESTED													1						
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BottleOrder: 80481

pg. 1 of 74 Work order # 24011312



CHAIN OF CUSTODY

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

Client	Client: Geotechnology, LLC													Sar	npl	es	on:	쮏	ICE		BLU	E ICE	躑	NO	CE			o	C	LTG	¥		
Address:		11816 Lackland F	Road																		] FIEI					ORI	LAB	USE	ON	<u>LY</u>			an Navana
City / State	/ Zip	St. Louis, MO 63	146											Lab	N	ote	5																
Contact:	Brad Lo	ohrum			Phone	<b>;</b> ;	(;	314	) 997	-744	0																						Norther Action
E-Mail:	blohrun	n@teamues.com			_ Fax:		_							Clier	nt (	Con	nme	ent	s:						<u>.</u> .								- m
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BottleOrder: 80481

pg. 2 of 74 Work order # 2401 1312



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

Client:	ess: 11816 Lackland Road																				BLUE		龖					_ °(			#	
Address:													F	Pres	serv	ed i	in:		LAB	<b>*</b>	FIELI	)			FC	<u>RL</u>	AB L	<u>JSE</u>	ONL	<u>.Y</u>		2
City / State	/ Zip St. Loui	s, MO 631	46										l	.ab	Not	es																
Contact:	Brad Lohrum				Phone	e:	(3	14) 9	997-7	440																						an a
E-Mail:	blohrum@teamu	les.com			Fax:								С	lien	nt Co	omr	ne	nts	:							: •						
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BottleOrder: 80481

pg. 3 of 74 Work order # 2401131L



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

Client:													San	nple	es c	on:	쮏	ICE		BLU	E ICE	灦	NO I	CE			0	С	LTG	#		
Address:	11816	Lackland Ro	bad																	FIE					<u>or l</u>	AB	USE	ONL	<u>_Y</u>			direk karatere
City / State	/ Zip St. Lo	uis, MO 631	46										Lab	No	tes																	
Contact:	Brad Lohrum			Phone	):	(3	14)	997-	7440																							100000
E-Mail:	blohrum@tear	nues.com		Fax:									lier	nt C	on	nme	ent	5:					*				2					
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BottleOrder: 80481

pg. 4 of 74 Work order # 24011312



pg. 5 of 74 Work order # 2401312

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

Client:	Geotechnology, L				Ţ	San	nple	es c	n:	쮏	ICE	龗	BLU	e ice		NO IO	CE			_ 0	С	LTG	¥							
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Contact:	Brad Lohrum		_ Phone	:	(314)	) 997	-744(	)																						and the table
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BottleOrder: 80481



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

Client:		Geotechnology,	LLC											1	San	nple	sc	on:	쮋	ICE	<b>3</b>	BLU	E ICE	圞	NO	CE			0	С	LTG	¥		
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City / State	/ Zip	St. Louis, MO 6	3146											1	Lab	No	tes	;																
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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. 6 of 74 Work order # 24011312





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

February 14, 2024

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

**RE:** J044517.01



WorkOrder: 24011313

Dear Brad Lohrum:

TEKLAB, INC received 59 samples on 1/19/2024 10:12:00 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,

Shelly A Hennessy

Shelly A. Hennessy Project Manager (618)344-1004 ex 36 SHennessy@teklabinc.com



## **Report Contents**

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Client Project: J044517.01

## Work Order: 24011313 Report Date: 14-Feb-24

This reporting package includes the following:

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



### **Definitions**

http://www.teklabinc.com/

#### Client: Geotechnology, Inc.

Client Project: J044517.01

Work Order: 24011313

Report Date: 14-Feb-24

#### **Abbr Definition**

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



## **Definitions**

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

Client: Geotechnology, Inc.

### Client Project: J044517.01

# Work Order: 24011313

Report Date: 14-Feb-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: 24011313 Report Date: 14-Feb-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/

Work Order: 24011313 Report Date: 14-Feb-24

### Client: Geotechnology, Inc.

### Client Project: J044517.01

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



## **Laboratory Results**

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

Work Order: 24011313

Report Date: 14-Feb-24

Client: Geotechnology, Inc.

Client Project: J044517.01

Matrix: DRINKING WATER

Sample ID	Client Sample ID	Certification Qual	RL	Result	Units	DF	Date Analyzed	Date Collected
EPA 600 4.1.4	, 200.8 R5.4, META	LS BY ICPMS (TOTAL)						
Lead		, , , , , , , , , , , , , , , , , , ,						
24011313-001	A SMS-61	NELAP	1.0	26.0	µg/L	5	02/09/2024 9:48	01/11/2024 5:41
24011313-002	A SMS-62	NELAP	1.0	40.8	µg/L	5	02/09/2024 9:53	01/11/2024 5:41
24011313-003	A SMS-63	NELAP	1.0	<b>19.6</b>	µg/L	1	02/09/2024 10:01	01/11/2024 5:42
24011313-004	A SMS-64	NELAP	1.0	26.3	µg/L	1	02/09/2024 12:21	01/11/2024 5:42
24011313-005	A SMS-65	NELAP	1.0	27.2	µg/L	1	02/09/2024 12:26	01/11/2024 5:43
24011313-006	A SMS-66	NELAP	1.0	< 1.0	µg/L	1	02/06/2024 0:42	01/11/2024 5:46
24011313-007	A SMS-67	NELAP	1.0	< 1.0	µg/L	1	02/06/2024 0:46	01/11/2024 5:46
24011313-008	A SMS-68	NELAP	1.0	< 1.0	µg/L	1	02/06/2024 0:49	01/11/2024 5:47
24011313-009	A SMS-69	NELAP	1.0	< 1.0	µg/L	1	02/06/2024 0:53	01/11/2024 5:47
24011313-010	A SMS-70	NELAP	1.0	< 1.0	µg/L	1	02/06/2024 0:57	01/11/2024 5:49
24011313-011	A SMS-71	NELAP	1.0	< 1.0	µg/L	1	02/06/2024 1:00	01/11/2024 5:50
24011313-012	A SMS-72	NELAP	1.0	< 1.0	µg/L	1	02/06/2024 1:04	01/11/2024 5:50
24011313-013	A SMS-73	NELAP	1.0	2.2	µg/L	1	02/06/2024 1:15	01/11/2024 5:52
24011313-014	A SMS-74	NELAP	1.0	< 1.0	µg/L	1	02/09/2024 12:30	01/11/2024 5:53
24011313-015	A SMS-75	NELAP	1.0	< 1.0	µg/L	1	02/09/2024 12:13	01/11/2024 5:53
24011313-016	A SMS-76	NELAP	1.0	< 1.0	µg/L	1	02/06/2024 19:22	01/11/2024 5:54
24011313-017	A SMS-77	NELAP	1.0	< 1.0	µg/L	1	02/06/2024 19:27	01/11/2024 5:54
24011313-018	A SMS-78	NELAP	1.0	< 1.0	µg/L	1	02/09/2024 12:34	01/11/2024 5:54
24011313-019	A SMS-79	NELAP	1.0	<mark>6.8</mark>	µg/L	1	02/06/2024 19:31	01/11/2024 5:54
24011313-020	A SMS-80	NELAP	1.0	< 1.0	µg/L	1	02/06/2024 19:35	01/11/2024 5:55
24011313-021	A SMS-81	NELAP	1.0	< 1.0	µg/L	1	02/06/2024 19:40	01/11/2024 5:55
24011313-022	A SMS-82	NELAP	1.0	< 1.0	µg/L	1	02/02/2024 14:47	01/11/2024 5:55
24011313-023	A SMS-83	NELAP	1.0	< 1.0	µg/L	1	02/06/2024 19:44	01/11/2024 5:55
24011313-024	A SMS-84	NELAP	1.0	< 1.0	µg/L	1	02/06/2024 19:48	01/11/2024 6:00
24011313-025	A SMS-85	NELAP	1.0	< 1.0	µg/L	1	02/02/2024 18:45	01/11/2024 6:00
24011313-026	A SMS-86	NELAP	1.0	< 1.0	µg/L	1	02/02/2024 18:48	01/11/2024 6:00
24011313-027	A SMS-87	NELAP	1.0	< 1.0	µg/L	1	02/02/2024 18:52	01/11/2024 6:00
24011313-028	A SMS-88	NELAP	1.0	21.2	µg/L	1	02/02/2024 18:56	01/11/2024 6:01
24011313-029	A SMS-89	NELAP	1.0	< 1.0	µg/L	1	02/02/2024 18:59	01/11/2024 6:01
24011313-030	A SMS-90	NELAP	1.0	25.8	µg/L	1	02/06/2024 19:53	01/11/2024 6:02
24011313-031	A SMS-91	NELAP	1.0	< 1.0	µg/L	1	02/02/2024 19:14	01/11/2024 6:02
24011313-032	A SMS-92	NELAP	1.0	36.3	µg/L	1	02/02/2024 19:29	01/11/2024 6:03
24011313-033	A SMS-93	NELAP	1.0	< 1.0	µg/L	1	02/02/2024 19:32	01/11/2024 6:03
24011313-034	A SMS-94	NELAP	1.0	16.4	µg/L	1	02/06/2024 20:19	01/11/2024 6:04
24011313-035	A SMS-95	NELAP	1.0	38.5	µg/L	1	02/02/2024 19:40	01/11/2024 6:04
24011313-036	A SMS-96	NELAP	1.0	< 1.0	µg/L	1	02/02/2024 19:43	01/11/2024 6:05
24011313-037	A SMS-97	NELAP	1.0	31.4	µg/L	1	02/06/2024 20:23	01/11/2024 6:05
24011313-038	A SMS-98	NELAP	1.0	< 1.0	µg/L	1	02/02/2024 19:58	01/11/2024 6:06
24011313-039	A SMS-99	NELAP	1.0	< 1.0	µg/L	1	02/02/2024 20:02	01/11/2024 6:08
24011313-040	A SMS-100	NELAP	1.0	< 1.0	µg/L	1	02/12/2024 8:09	01/11/2024 6:08
24011313-041	A SMS-101	NELAP	1.0	< 1.0	µg/L	1	02/02/2024 20:20	01/11/2024 6:08
24011313-042	A SMS-102	NELAP	1.0	< 1.0	µg/L	1	02/02/2024 14:43	01/11/2024 6:08
24011313-043	A SMS-103	NELAP	1.0	20.0	µg/L	1	02/02/2024 15:20	01/11/2024 6:09
24011313-044	A SMS-104	NELAP	1.0	< 1.0	µg/L	1	02/02/2024 15:16	01/11/2024 6:09
24011313-045	A SMS-105	NELAP	1.0	22.2	µg/L	1	02/02/2024 15:12	01/11/2024 6:10
24011313-046	A SMS-106	NELAP	1.0	< 1.0	µg/L	1	02/02/2024 14:06	01/11/2024 6:10
24011313-047	A SMS-107	NELAP	1.0	< 1.0	μg/L	5	02/13/2024 13:57	01/11/2024 6:11
24011313-048	A SMS-108	NELAP	1.0	< 1.0	μg/L	1	02/02/2024 14:02	01/11/2024 6:11



## **Laboratory Results**

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

Client: Geotechnology, Inc.

### Client Project: J044517.01

### Matrix: DRINKING WATER

Sample ID	Client Sample ID	Certification Qual	RL	Result	Units	DF	Date Analyzed	Date Collected
EPA 600 4.1.4	, 200.8 R5.4, META	LS BY ICPMS (TOTAL)						
Lead								
24011313-049/	A SMS-109	NELAP	1.0	<mark>4.8</mark>	µg/L	5	02/13/2024 13:27	01/11/2024 6:12
24011313-050	A SMS-110	NELAP	1.0	<mark>171</mark>	µg/L	5	02/13/2024 13:44	01/11/2024 6:12
24011313-051	A SMS-111	NELAP	1.0	20.5	µg/L	1	02/02/2024 13:58	01/11/2024 6:13
24011313-052	A SMS-112	NELAP	1.0	< 1.0	µg/L	1	02/02/2024 13:53	01/11/2024 6:13
24011313-053	A SMS-113	NELAP	1.0	33.4	µg/L	5	02/13/2024 13:49	01/11/2024 6:14
24011313-054	A SMS-114	NELAP	1.0	3.9	µg/L	5	02/13/2024 13:53	01/11/2024 6:14
24011313-055	A SMS-115	NELAP	1.0	33.7	µg/L	1	02/02/2024 14:26	01/11/2024 6:14
24011313-056/	A JMS-01	NELAP	1.0	< 1.0	µg/L	1	02/02/2024 14:22	01/11/2024 6:35
24011313-057	A JMS-02	NELAP	1.0	< 1.0	µg/L	1	02/12/2024 8:39	01/11/2024 6:36
24011313-058	A JMS-03	NELAP	1.0	< 1.0	µg/L	1	02/02/2024 13:16	01/11/2024 6:37
24011313-059/	A JMS-04	NELAP	1.0	1.0	µg/L	1	02/02/2024 13:12	01/11/2024 6:37

## Work Order: 24011313

Report Date: 14-Feb-24



## **Receiving Check List**

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Client Project: J044517.01

Work Order: 24011313 Report Date: 14-Feb-24

Carrier: Employee Completed by: On: 19-Jan-24 Amber Dilallo	19-Jan-24	Elled Hopke Ellie Hopkins	нS
Pages to follow:       Chain of custody       6         Shipping container/cooler in good condition?       Type of thermal preservation?         Chain of custody present?       Chain of custody signed when relinquished and received?         Chain of custody agrees with sample labels?       Samples in proper container/bottle?         Sample containers intact?       Sufficient sample volume for indicated test?         All samples received within holding time?	Extra pages included       0         Yes       No         None       Ice         Yes       No         Yes       No	Not Present Blue Ice	Temp °C N/A Dry Ice
Reported field parameters measured: Container/Temp Blank temperature in compliance? When thermal preservation is required, samples are complian 0.1°C - 6.0°C, or when samples are received on ice the same	Field     Lab       Yes     No       t with a temperature between day as collected.		
Water – at least one vial per sample has zero headspace? Water - TOX containers have zero headspace?	Yes No No No	No VOA vials ✔ No TOX containers ✔	
Water - pH acceptable upon receipt?	Yes ✓ No □	NA 🗌	
NPDES/CWA TCN interferences checked/treated in the field?	Yes 🗌 No 🗌	NA 🗹	
Any No responses m	ust be detailed below or on the	e COC.	

Samples were checked for turbidity and then preserved with nitric acid upon arrival in the laboratory. - amberdilallo - 1/19/2024 10:57:21 AM

Did not receive JMS-05 MEK 1/19/24

CHAIN OF CUSTODY pg. 7 of 74 Work order # 24011313

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

Client:       Geotechnology, LLC         Address:       11816 Lackland Road         City / State / Zip       St. Louis, MO 63146         Contact:       Brad Lohrum         Brad Lohrum@teamues.com       Fax:         Are these samples known to be involved in litigation? If yes, a surcharge will apply       Yes         Are these samples known to be hazardous?       Yes         Yes       No         Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section.       Yes	<u>Υ</u>
City / State / Zip       St. Louis, MO 63146         Contact:       Brad Lohrum         Brad Lohrum       Phone:       (314) 997-7440         E-Mail:       blohrum@teamues.com       Fax:         Are these samples known to be involved in litigation? If yes, a surcharge will apply       Yes       Yes         Are these samples known to be hazardous?       Yes       No         Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section.       Yes       No	
Contact:       Brad Lohrum       Phone:       (314) 997-7440       Did not receive IMS-05 mEk Viglay         E-Mail:       blohrum@teamues.com       Fax:	
E-Mail:       blohrum@teamues.com       Fax:       Client Comments:         Are these samples known to be involved in litigation? If yes, a surcharge will apply       Yes       Yes       No         Are these samples known to be hazardous?       Yes       Yes       No       No         Are there any required reporting limits to be met on the requested analysis?. If yes, please provide       If yes       No	
Are these samples known to be hazardous? Yes X No Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. Yes X No	
Project Name/Number Sample Collector's Name MATRIX INDICATE ANALYSIS REQUESTE	:D
Results Requested Billing Instructions # and Type of Containers	
Image: New problem       Image: Ne	
2412 31001 SUS -61 1/11/24 5:41 1 K	
10025MG-6Z $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$	
03 1 63 5:42 X X	
DU 64 7	
ND5 65 5:43 X X	
$\alpha_{i}$ $bb$ $574b$ $X$ $X$	
Cio     1     70     5-19       Relinguished By     Date/Time     Received By     Date/Time	ne
Brolyhan 1/10/24 RAA 1/18/24	
40 lbs 1/19/24 10:00 Tully keen 1/19/24	10 12
The first the second first	<u>v</u> , , <del>v</del>

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions.

BottleOrder: 80481



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

Client:	Geotechnology, L	LC								T	Sar	nol	es	on:	飂	ICE	<b>8</b>	SLUE I	CE 🝥	NOIC	E			°c	,	LTG#		
Address:	11816 Lackland F	Road								•						LAB						RL/	AB U	JSE (	ONL	ſ		
City / State	/ Zip St. Louis, MO 63	146								•	Lat															-		And and a second second
Contact:	Brad Lohrum		Phone	2:	(314	4) 997	7-744	0																				a na sana sa
E-Mail:	blohrum@teamues.com	· ·	Fax:							ŀ	Clier	- 4 6			4						۰.					i e e		
Are these samples Are there any requirements limits in the comm	s known to be involved in lit s known to be hazardous? uired reporting limits to be r tent section. Yes	Yes X net on the requ No	No uested analys	is?. If	yes,	pleas	-		No							·												
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BottleOrder: 80481

pg. 8 of 74 Work order # 24011313



CHAIN OF CUSTODY pg. 9 of 74 Work order # 24011313

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

Client:	Geotechnology, L	LC							T	Sar	npi	es	on:	1	] ICE	🕅 BLUE	ICE [	NO	ICE			°C	;	LTG#	ŧ	 9400000
Address:	11816 Lackland F	Road							~ .		-					📓 FIELI				ORL		USE (	ONL	Y		
City / State	/ Zip St. Louis, MO 63	146							•	Lat	a No	otes	5								_			_		A. C. M.
Contact:	Brad Lohrum	Phor	e:	(31	14) 9	97-74	40						-													an na shekara
E-Mail:	blohrum@teamues.com	Fax:								Clie	nt (	:on	nma	ent	¢.					ji mana sa						ž
Are these sample Are there any requiring the community of	s known to be involved in li s known to be hazardous? uired reporting limits to be r nent section.	Yes XNo met on the requested analy No	sis?.	lf yes	, ple	-				•									<u>,</u>							
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BottleOrder: 80481



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	Geotechnology, Ll 11816 Lackland R St. Louis, MO 633 Brad Lohrum blohrum@teamues.com s known to be involved in lit s known to be hazardous? tired reporting limits to be n ent section. Yes	igation? If yes	No	will	appl	y	997-7	es	×				ser No	vec	in s	:	LAB	i BL I ■ FIE		 NO ICI		RLA		_ °C JSE (	CONL	LTG# Y	<u><u><u></u></u></u>		
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BottleOrder: 80481

pg. [0 of 74 Work order # 240113]3



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

Client:		Geotechnology, L	LC									T	Sar	mp	es	on:		] ICE	🟾 BLUE		NO I	CE		·····	_ °C	1	LTG#		
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City / State	, cap .	St. Louis, MO 63	146										Lał	5 N	ote	5					•								
Contact:	Brad Lol			Phon	e:	(	314)	997	-744(	)																			
E-Mail:	blohrum	@teamues.com		Fax:								- [	Clie	nt (	Cor	nme	ent	s:			\$							***	· · · · · · · · · · · · · · · · · · ·
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BottleOrder: 80481

pg. [] of 74 Work order # 2401313



**CHAIN OF CUSTODY** pg. 12 of 74 Work order # 2401313

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

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BottleOrder: 80481





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

March 28, 2024

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

**RE:** J044517.01



WorkOrder: 24030694

Dear Brad Lohrum:

TEKLAB, INC received 60 samples on 3/8/2024 4:11:00 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,

Shelly A Hennessy

Shelly A. Hennessy Project Manager (618)344-1004 ex 36 SHennessy@teklabinc.com



## **Report Contents**

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Client Project: J044517.01

## Work Order: 24030694 Report Date: 28-Mar-24

This reporting package includes the following:

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



### **Definitions**

http://www.teklabinc.com/

#### Client: Geotechnology, Inc.

Client Project: J044517.01

Work Order: 24030694

Report Date: 28-Mar-24

#### **Abbr Definition**

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



## Definitions

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

Client: Geotechnology, Inc.

#### Client Project: J044517.01

## Work Order: 24030694

Report Date: 28-Mar-24

### Qualifiers

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

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



## **Case Narrative**

http://www.teklabinc.com/

Work Order: 24030694 Report Date: 28-Mar-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/

Work Order: 24030694 Report Date: 28-Mar-24

### Client: Geotechnology, Inc.

### Client Project: J044517.01

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



## **Laboratory Results**

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

Work Order: 24030694

Report Date: 28-Mar-24

Client: Geotechnology, Inc.

### Client Project: J044517.01

Matrix: DRINKING WATER

Sample ID	Client Sample ID	Certification Qual	RL	Result	Units	DF	Date Analyzed	Date Collected
EPA 600 4.1.4 Lead	4, 200.8 R5.4, META	LS BY ICPMS (TOTAL)						
24030694-001	A SMS-05	NELAP	1.0	< 1.0	µg/L	1	03/27/2024 11:59	03/06/2024 3:32
24030694-002	A CACC-16	NELAP	1.0	1.9	µg/L	1	03/27/2024 12:03	03/06/2024 3:52
24030694-003	A JMS-05	NELAP	1.0	< 1.0	µg/L	1	03/27/2024 12:06	03/06/2024 4:12
24030694-004	A JMS-44	NELAP	1.0	< 1.0	µg/L	1	03/19/2024 9:52	03/06/2024 4:16
24030694-005	A JMS-48	NELAP	1.0	1.7	µg/L	1	03/19/2024 9:56	03/06/2024 4:18
24030694-006	A JMS-49	NELAP	1.0	< 1.0	µg/L	1	03/19/2024 9:59	03/06/2024 4:20
24030694-007	A BHS-01	NELAP	1.0	3.8	µg/L	1	03/19/2024 10:03	03/06/2024 4:46
24030694-008	A BHS-02	NELAP	1.0	1.2	µg/L	1	03/19/2024 10:07	03/06/2024 4:48
24030694-009	A BHS-03	NELAP	1.0	< 1.0	µg/L	1	03/19/2024 10:18	03/06/2024 4:51
24030694-010	A BHS-04	NELAP	1.0	1.2	µg/L	1	03/21/2024 14:06	03/06/2024 4:55
24030694-011	A BHS-05	NELAP	1.0	1.2	µg/L	1	03/19/2024 10:28	03/06/2024 5:00
24030694-012	A BHS-06	NELAP	1.0	1.4	µg/L	1	03/19/2024 10:59	03/06/2024 5:00
24030694-013	A BHS-07	NELAP	1.0	11.4	µg/L	1	03/19/2024 11:03	03/06/2024 5:06
24030694-014	A BHS-08	NELAP	1.0	5.0	µg/L	1	03/19/2024 11:08	03/06/2024 5:10
24030694-015	A BHS-09	NELAP	1.0	3.8	µg/L	1	03/19/2024 11:11	03/06/2024 5:12
24030694-016	A BHS-10	NELAP	1.0	< 1.0	µg/L	1	03/19/2024 11:16	03/06/2024 5:15
24030694-017	A BHS-11	NELAP	1.0	< 1.0	µg/L	1	03/19/2024 11:19	03/06/2024 5:15
24030694-018	A BHS-12	NELAP	1.0	< 1.0	µg/L	1	03/19/2024 11:23	03/06/2024 5:15
24030694-019	A BHS-13	NELAP	1.0	5.0	µg/L	1	03/19/2024 11:34	03/06/2024 5:17
24030694-020		NELAP	1.0	13.1	µg/L	1	03/19/2024 11:49	03/06/2024 5:17
24030694-021		NELAP	1.0	9.9	µg/L	1	03/19/2024 11:52	03/06/2024 5:17
24030694-022	A BHS-16	NELAP	1.0	14.4	µg/L	1	03/19/2024 11:56	03/06/2024 5:17
24030694-023	A BHS-17	NELAP	1.0	25.9	µg/L	1	03/19/2024 12:00	03/06/2024 5:17
24030694-024		NELAP	1.0	5.2	µg/L	1	03/19/2024 12:03	03/06/2024 5:20
24030694-025		NELAP	1.0	9.4	µg/L	1	03/21/2024 14:10	03/06/2024 5:20
24030694-026		NELAP	1.0	17.1	µg/L	1	03/19/2024 12:11	03/06/2024 5:20
24030694-027		NELAP	1.0	16.4	µg/L	1	03/19/2024 12:14	03/06/2024 5:20
24030694-028		NELAP	1.0	14.6	µg/L	1	03/21/2024 14:13	03/06/2024 5:20
24030694-029		NELAP	1.0	26.8	µg/L	1	03/19/2024 12:40	03/06/2024 5:20
24030694-030		NELAP	1.0	8.1	µg/L	1	03/19/2024 12:44	03/06/2024 5:20
24030694-031		NELAP	1.0	3.5	µg/L	1	03/19/2024 12:47	03/06/2024 5:25
24030694-032		NELAP	1.0	< 1.0	µg/L	1	03/19/2024 12:51	03/06/2024 5:25
24030694-033		NELAP	1.0	6.5	µg/L	1	03/19/2024 12:55	03/06/2024 5:27
24030694-034		NELAP	1.0	9.3	µg/L	1	03/19/2024 12:58	03/06/2024 5:27
24030694-035		NELAP	1.0	7.3	µg/L	1	03/19/2024 13:02	03/06/2024 5:27
24030694-036		NELAP	1.0	8.1	µg/L	1	03/19/2024 13:06	03/06/2024 5:27
24030694-037		NELAP	1.0	9.3	µg/L	1	03/19/2024 13:09	03/06/2024 5:27
24030694-038		NELAP	1.0	5.7	µg/L	1	03/19/2024 13:24	03/06/2024 5:27
24030694-039		NELAP	1.0	12.5	µg/L	1	03/19/2024 13:35	03/06/2024 5:27
24030694-040		NELAP	1.0	24.1	µg/L	1	03/19/2024 13:39	03/06/2024 5:27
24030694-041		NELAP	1.0	1.2	µg/L	1	03/19/2024 13:42	03/06/2024 5:33
24030694-042		NELAP	1.0	1.0	µg/L	1	03/19/2024 13:46	03/06/2024 5:33
24030694-042		NELAP	1.0	6.6	µg/L	1	03/19/2024 13:50	03/06/2024 5:35
24030694-043		NELAP	1.0	5.1	µg/L	1	03/23/2024 3:48	03/06/2024 5:35
24030694-044								
		NELAP	1.0	5.8	µg/L	1	03/19/2024 17:48	03/06/2024 5:35
24030694-046		NELAP	1.0	6.0	µg/L	1	03/19/2024 17:51	03/06/2024 5:35
24030694-047		NELAP	1.0	4.5	µg/L	1	03/19/2024 17:55	03/06/2024 5:35
24030694-048	A BHS-42	NELAP	1.0	5.9	µg/L	1	03/19/2024 18:10	03/06/2024 5:35





## **Laboratory Results**

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

Work Order: 24030694

Report Date: 28-Mar-24

Client: Geotechnology, Inc.

### Client Project: J044517.01

### Matrix: DRINKING WATER

Sample ID	Client Sample ID	Certification Qual	RL	Result	Units	DF	Date Analyzed	Date Collected
EPA 600 4.1.4 Lead	4, 200.8 R5.4, META	LS BY ICPMS (TOTAL)	I					
24030694-049	A BHS-43	NELAP	1.0	4.6	µg/L	1	03/19/2024 18:21	03/06/2024 5:35
24030694-050	A BHS-44	NELAP	1.0	5.7	µg/L	1	03/19/2024 18:24	03/06/2024 5:35
24030694-051	A BHS-45	NELAP	1.0	5.3	µg/L	1	03/19/2024 18:28	03/06/2024 5:42
24030694-052	A BHS-46	NELAP	1.0	9.2	µg/L	1	03/19/2024 18:32	03/06/2024 5:43
24030694-053	A BHS-47	NELAP	1.0	8.3	µg/L	1	03/19/2024 18:35	03/06/2024 5:43
24030694-054	A BHS-48	NELAP	1.0	5.7	µg/L	1	03/19/2024 18:39	03/06/2024 5:43
24030694-055	A BHS-49	NELAP	1.0	9.6	µg/L	1	03/19/2024 18:43	03/06/2024 5:43
24030694-056	A BHS-50	NELAP	1.0	7.3	µg/L	1	03/19/2024 18:57	03/06/2024 5:43
24030694-057	A BHS-51	NELAP	1.0	4.7	µg/L	1	03/19/2024 19:01	03/06/2024 5:43
24030694-058	A BHS-52	NELAP	1.0	10.6	µg/L	1	03/21/2024 14:35	03/06/2024 5:43
24030694-059	A BHS-53	NELAP	1.0	9.2	µg/L	1	03/21/2024 14:46	03/06/2024 5:43
24030694-060	A BHS-54	NELAP	1.0	< 1.0	µg/L	1	03/19/2024 19:19	03/06/2024 5:48



## **Receiving Check List**

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Client Project: J044517.01

Work Order: 24030694 Report Date: 28-Mar-24

Carrier: John Duarte Completed by: On: 08-Mar-24 Nick Reed	]	eceived By: WAG Reviewed by: On: 1-Mar-24 I	D FILLO Hopk Ellie Hopkins	uno
Pages to follow:       Chain of custody       6         Shipping container/cooler in good condition?	Extra pages inclu Yes 🔽	No 🗌	Not Present	Temp °C N∕A
Type of thermal preservation? Chain of custody present?	None 🗌 Yes 🗹	Ice ⊻ No □	Blue Ice	Dry Ice
Chain of custody signed when relinquished and received?	Yes 🔽	No 🗌		
Chain of custody agrees with sample labels?	Yes 🗸	No 🗌		
Samples in proper container/bottle?	Yes 🔽	No 🗌		
Sample containers intact?	Yes 🖌	No 🗌		
Sufficient sample volume for indicated test?	Yes 🗹	No 🗌		
All samples received within holding time?	Yes 🗹	No 🗌		
Reported field parameters measured:	Field	Lab	NA 🔽	
Container/Temp Blank temperature in compliance?	Yes 🗹	No 🗌		
When thermal preservation is required, samples are complian 0.1°C - 6.0°C, or when samples are received on ice the same				
Water – at least one vial per sample has zero headspace?	Yes	No	No VOA vials 🖌	
Water - TOX containers have zero headspace?	Yes	No	No TOX containers	
Water - pH acceptable upon receipt?	Yes 🗹	No 🗌	NA 🗌	
NPDES/CWA TCN interferences checked/treated in the field?	Yes	No 🗌	NA 🗹	
Any No responses n	nust be detailed	below or on the	coc.	

Samples were checked for turbidity and then preserved with nitric acid upon arrival in the laboratory. - ehopkins - 3/11/2024 9:56:33 AM

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

Client:	Geotechnology, L	LC												s oi				🕅 BLUE ICE	N N		ļ	VP	1	C	LTG	ж		
Address:	11816 Lackland F	Road									P	res	erv	ed i	n:)	Ņ١	AB	📓 FIELD	$\sim$	1	FOR	LAB	USE	ON	<u>_Y</u>			
City / State	/ Zip St. Louis, MO 63	146									L	ab	Not	tes	1													
Contact:	Brad Lohrum		_ Phone	e:	(3	14)	997-7	440																				
E-Mail:	blohrum@teamues.com		_ Fax:								CI	ien	t C	omr	nel	nts												
Are these sample	s known to be involved in li	tigation? If yes,	a surcharge	will	apply		[] Y	es	X	No	1										$\sim$	JL	100	F Rees	. 50			
	s known to be hazardous?				15	ml			do											1		d ha		, i lees	1 10			
Are there any req limits in the comn	uired reporting limits to be nent section. 🏾 Yes D	Met on the require Regularity No	ested analys	IS?.	n yes	, pre	ease	prov	de																			
Project	Name/Number	S	ample Co	llec	tor's	s N	ame	<b>;</b>				М	IAT	RIX				INC	DICAT	E AN	ALY	sis r	EQU	JEST	ED			
.104	44517.01		Brad L	ohr	um							⊵∣				<u>م</u>	DW -							-				
1	s Requested	Billing Ins					e of (	Cont	aine	rs	A	Drinking Water		Sludae		Groundwater												
X Standard	] 1-2 Day (100% Surcharge)	Dining ino				_	π	N	N.	0	Aqueous		Soil	Sludae	2	ndy	ead											
Other	🗌 3 Day (50% Surcharge)			UNPRES	HNO3	NaOH			NaHSO4	OTHER	s	Wat		e		/ate	Lead E200.8											
Lab Use Only	Sample Identification	Date/Time	e Sampled	S			-		4	Ĩ		₽ 	_	ſ	2		_						_		<b>_</b>		Ļ	┝──┥
1030694-00	SMS-05	3/6/24	3:32	1	Ш			_	ļ			X			_		<u>X</u>						ļ	-	<b>_</b>		<u> </u>	
-002	CACC-10	NC CONTRACTOR	3:52	1								X					X											
-003	JMS 05		4:12	1								X					X											
-064	1 - 44		4:16	1								X					X											
- 005	48		4:18	1								X					X											http:///
- 006	49		4:20	1								X					X											
~007	BHS OI		4:46	1								X					X											
-008	02		4:48	1								X					X											100 0000000
-009	03		4:51	1								X					X											
2010	- 04		4:55	1								X		10111010000000			X											
	Relinguished By		ļ	[	Date							4	$\frac{1}{1}$	_/	1	Rei	eive	ed By			<u> </u>	10	D	ate/I	-			
Buch	light		3/8	20	ŧ_	<u>/</u>	<u>31</u>	5D			·	Ø	W	b	4	dl)	/	~~~			318	120	<u> </u>	$\frac{l}{2}$	50			
The W	19100		3/8/	$\mathcal{A}$	1	<u>t k</u>	, U				L	٤	Ih	ل	С V	5	<u>}(</u>	Leve			N	181	2	<u> </u>	1	<u>et</u>	┞	
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BottleOrder: 80481

pg. 1 of 23 Work order # 24630.94



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 these any requ	Geotechnology, Ll 11816 Lackland R 11816 Lackland R St. Louis, MO 631 Brad Lohrum blohrum@teamues.com s known to be involved in lit s known to be hazardous? irred reporting limits to be n	load 146 Pho Fax igation? If yes, a surcha Yes X No net on the requested ana	C:	997-7440	Samples of Preserved Lab Notes Client Comr	in: 🕅 LAB	BLUE ICE 🕅 NO IC	E <sup>O</sup> C LTG# FOR LAB USE ONLY
Marca and Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual An	ent section. Yes		Collector's N	lame	MATRIX		INDICATE A	NALYSIS REQUESTED
-	4517.01	•	l Lohrum		Dri	Gro		
X Standard	s Requested 1-2 Day (100% Surcharge)	Billing Instruction		e of Containers NaHSO4 HCL H2SO4	Sludge Soil Drinking Water Aqueous	W - Lead E200.8 Groundwater		
Lab Use Only	Sample Identification	Date/Time Sample	ed <sup>III</sup> <sup>ω</sup> <sup>⊥</sup>			9 0.8		
4030694-061	BHS 05	3/6/24 5:0	20 1		X	X		
~01Z	00		1		X	<u> </u>		
-013	07	5:0	<u>561</u>		X	X		
-014	08	5:10	8 1		X	X		
-015	09	5:1	121			X		
-016	10	5:19	51			X		
-017			1			X		
-018	(2		1		X	X		
- 019	13	5:17	7 1		X	X		
~620	4	+ +	1					
12 / 1.	Relinguished By		Date/Ti	me 35D	1.1. (	Receiv	ed By	Date/Time
Ante D	han	3/5	JON I	<u>520</u> 611	Ucher	ng (°	Turp	318/24 16/1

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BottleOrder: 80481

pg. Z of 23 Work order # 2403004



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

Client:	Geotechnology, L	LC				_			5	Sam	ples	on:		ICE		🕅 NO 10	CE .		_°c	LTG#		
Address:	11816 Lackland F	Road									Preserved in: In LAB FIELD FOR LAB USE ONLY											
City / State	/ Zip St. Louis, MO 63									ab	Not	es										
Contact:	Brad Lohrum	F	hone:	(;	314) 9	97-74	40															
E-Mail:	blohrum@teamues.com	F	<sup>:</sup> ax:						- C	Client Comments:												
	s known to be involved in lit		charge w	ill appi	y	🗌 Ye	s 2		,													
	s known to be hazardous?			<b>D</b> 16			م من م															
limits in the comm	uired reporting limits to be r ent section.	No	anaiysis	2. IT YE	es, pie	ase p	τονιαε	•														
Project Name/Number Sample Collector's Name								Τ-	MATRIX INDICATE ANALYSIS REQUESTED													
J04	4517.01	Br	ad Lo	hrun	า					₫		S	6	DW -								
Result	s Requested	Billing Instruct		# and		e of C	ontai	ners	₿	Drinking Water	<u>v</u>	Special Waste	Groundwater	/ - Le								
	1-2 Day (100% Surcharge)	5		ςI	z	r _		z o	Aqueous	ng	Soil		ndw	Lead								
Other	3 Day (50% Surcharge)			HNO3	NaOH	S F	MeOH	OTHER	ŝ	Wat	ā	last	ate	E200.8								
Lab Use Only	Sample Identification	Date/Time Sam	pled					<u>م</u>		ę.		ſ	[ <u> </u>	0,8								
4030694-001	BHS 15	3/6/24 5	17	1						X				Х								
-022	and a second	A CARLON CA		1						X				Х								
-023	1		Continuently.	1						X				X								
-024	18	63	,20	1						Х				X								
-025	19		Meteorogical and a second	1						X				Х								
-02j	20			1						Х				Х								
-027	21			1						X				X								
-025	22			1						X				Х								
-029	23			1						X				Х								
-030	- 24			1						X	,			X								
	Relinguished By			Date	/Tim	e			Ļ	Â	7	Ą	Re	ceiv	ed By				Date/			
Forgelly	physe-	3	5/8/2	.4		50			1_4	(s)	li_	<u>A</u> li	Nal	M/	/		349	124	17	50		
1/AUN R	Small	3,	1812	4	6)	<u>[]</u>				L	h	Í		F	LINN.		31	8/2	15	$\lfloor v_0 \rfloor$		
V / -	V			-		. <u></u>			<u> </u>				7	Ţ	$\sim \eta_{2,i}$			· 				
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BottleOrder: 80481

pg. 3 of 23 Work order # 24030094



pg. 4 of 23 Work order # 24030 94

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	known to be hazardous?	igation? If yes, a surcharge		Samples on:       ICE       BLUE ICE       NO ICE       °C       LTG#         Preserved in:       LAB       FIELD       FOR LAB USE ONLY         Lab Notes       Client Comments:										
limits in the commo	ent section. Yes X	No	ollector's Name	MATRIX INDICATE ANALYSIS REQUESTED										
J04 Results	4517.01 Requested	•	_ohrum	DW - L Grou Spec Sl Ac										
Standard	1-2 Day (100% Surcharge)	-	OTHER NaHSO4 MeOH HCL H2SO4 NaOH HN03 UNPRES	0W - Lead E200.8 Groundwater Special Waste Sludge Soil Drinking Water Aqueous										
Lab Use Only	Sample Identification	Date/Time Sampled												
4030644-031	~ ~	3/6/24 5:25												
-032	28		3											
-033		5721												
-074	28		1											
-035	29													
-036	30		1	XX										
-037	31			X X										
-038	32													
-039														
-040	Relinquished By	and a second	Date/Time	Régeived	By Date/Time									
- Ener Own	Reinquished By	318	124 1350	(ALL) FIOWAR	3(8/24 1350									
John &	Viennin	38	24 164	Whiteyou										

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BottleOrder: 80481



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

Client:	Geotechnology, Ll	_C							Sar	nple	es ol	<b>1:</b> [	🕅 IC	E	BLUE ICE 📓 NO	ICE			°(	C	LTG#		
Address:	11816 Lackland R					Preserved in: LAB FIELD FOR LAB USE ONLY																	
City / State	/ Zip St. Louis, MO 631	46							Lat	o No	tes												
Contact:	Brad Lohrum		Phone: (314) 997-7440																				
E-Mail:	blohrum@teamues.com	F	Fax:	•				[	Client Comments:														
Are these sample: Are there any requ	s known to be involved in lit s known to be hazardous? uired reporting limits to be n	Yes X No					ide	٩o															
Imits in the comment section.     Yes     No       Project Name/Number     Sample Collector's Name								<b></b> 1	MATRIX INDICATE ANALYSIS REQUESTED														
-	4517.01	•	rad Loh					F	Q		Ĺ		<u>م</u>	DV -					T				
Result	s Requested 1-2 Day (100% Surcharge)	Billing Instruc	tions #	and 1		f Cont	1 1	s A	inkir	s	Slu		roun	- Lead									
	3 Day (50% Surcharge)		UNPRES	HNO3	H2SC	HCL	NaHS	s othe	Drinking Water	Soil	Sludge	Choolal Whata	idwati	ad E200.8									
Lab Use Only	Sample Identification	Date/Time San	npled	ω	R	ter		a	5	ř	0. 8												
4030694-04	BHS-35	3/6/24 8	5:33 1						X					X									
-042	1 36		+ 1						X					X									
-643	31	5	:35 1						_X					X									
-044	38								X				2	X				_					
-045	39		1						X					X									
-046	43		1						X					X									
-047	4		1						X					X									
-048	42		1						X	(				X									
-049	43		1						X					X									
-050	- 44		1						X					X									
	Relinguished By			Date/1				T		Í Í		ļΙ	Re <i>e</i> ,	<b>five</b>	d By	ヿ	- /	~ .	Da	ate/Ti	ne		
Biggeller	Ant	7	3/5/2	1	<u>/3</u> ,	50				<u>MI</u>	/ L	M	pal	<u>/</u>		'	30	<u> Y12</u>	4	ľ	350	<u>}</u>	
Inter	XX x mull	3	18/2	ſ	6	7		1	Š	ملا	1	t	<u>7</u>	$\underline{\mathbb{C}}$	lip	$\perp$	319	stz	:4	1	110	<u>.</u>	
									_				7	1		$\square$		-					

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BottleOrder: 80481

pg. 5 of 73 Work order # $\frac{24030}{240369}$ 

94



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

Client:	Geotechnology, L	.LC								Sar	nple	s on			E 📓 BLUE ICE 📓 1	IO ICE		°C	LTG#	÷		
Address:	11816 Lackland F	Road	·····				Preserved in: LAB FIELD FOR LAB USE ONLY											l				
City / State	Zip St. Louis, MO 63	146					Lab Notes															
Contact:	Brad Lohrum	Phone: (314) 997-7440																				
E-Mail:	blohrum@teamues.com		_ Fax:	-		·····			- 7	Client Comments:												
Are these samples Are there any required limits in the comm	s known to be involved in liss known to be hazardous? ired reporting limits to be ent section.	Yes Met on the reque No	No ested analysi	is?. If y	es, p		provi	⊠ N de	ю													
Project I	Name/Number	S	ample Col	lecto	r's N	lame	e			MATRIX INDICATE ANALYSIS REQUESTED												
J04	4517.01		Brad Lo	ohrur	n					DT		S										
Results	s Requested 1-2 Day (100% Surcharge)	Billing Ins		# an					β	nkir	<b></b>	SI		Leau								
1	3 Day (50% Surcharge)			HNO3 UNPRES	NaOł	H2SO	Meo	NaHSC	Aqueous	Drinking Water	Soil	<u>Special Waste</u> Sludge	Groundwater	au =200.8								
Lab Üse Only	Sample Identification	Date/Time	e Sampled	εs		4		4	7	Ē		f	<b></b>	ο α								
4030694-051	BHS-45	316/24	5:42	1						X				X								
-02	46		5:43	1						X				X								
-053	47			1						X				X								
-054	48		1 Contrasting and the second s	1						X				X								
-055	49			1						X				X								
- 056	50			1						X				X								
-057	51			1						X				X								
-058	52			1						X				Х								
-059	53	Contraction of the second		1						X				X								
-060	- 54		5:48	1						X				X								
	Relinquished By		<u> </u>		e/Ti	me			Ļ		1	1	R	ecei	ved/By			Date/	Time			
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John D	World		3/81	24	1	611	<u> </u>			ربر سک	n	Ú	Ū	1	lips	3	18/2	4 1	$ \omega $	!		
	······						-						,	7								

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. 6 of 23 Work order # 24030694





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

July 11, 2024

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

**RE:** J044517.01



WorkOrder: 24062353

Dear Brad Lohrum:

TEKLAB, INC received 57 samples on 6/28/2024 3:50:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Patrick Riley Project Manager (618)344-1004 ex 44 patrickriley@teklabinc.com



## **Report Contents**

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Client Project: J044517.01

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

This reporting package includes the following:

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



## **Definitions**

http://www.teklabinc.com/

#### Client: Geotechnology, Inc.

Client Project: J044517.01

Work Order: 24062353

Report Date: 11-Jul-24

#### **Abbr Definition**

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



Client Project: J044517.01

## **Definitions**

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

Work Order: 24062353

Report Date: 11-Jul-24

### Qualifiers

# - Unknown hydrocarbon

Client: Geotechnology, Inc.

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

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



## **Case Narrative**

http://www.teklabinc.com/

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

Client: Geotechnology, Inc.

Client Project: J044517.01

## Cooler Receipt Temp: NA °C

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



# Accreditations

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

Work Order: 24062353

Report Date: 11-Jul-24

### Client: Geotechnology, Inc.

### Client Project: J044517.01

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



# **Laboratory Results**

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

Work Order: 24062353

Report Date: 11-Jul-24

Client: Geotechnology, Inc.

Client Project: J044517.01

Matrix: DRINKING WATER

Sample ID	Client Sample ID	Certification Qual	RL	Result	Units	DF	Date Analyzed	Date Collected
EPA 600 4.1.4	, 200.8 R5.4, META	LS BY ICPMS (TOTAL)						
Lead								
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	A MCE-87	NELAP	1.0	< 1.0	µg/L	1	07/03/2024 18:58	06/26/2024 16:54
24062353-019	A MCE-88	NELAP	1.0	< 1.0	µg/L	1	07/03/2024 19:02	06/26/2024 16:54
24062353-020	A RBH-30-2	NELAP	1.0	12.4	µg/L	1	07/03/2024 19:05	06/26/2024 17:17
24062353-021	A RBH-103	NELAP	1.0	1.9	µg/L	1	07/03/2024 19:09	06/26/2024 17:21
24062353-022	A RBH-104	NELAP	1.0	3.6	µg/L	1	07/03/2024 19:13	06/26/2024 17:21
24062353-023	A RBH-105	NELAP	1.0	< 1.0	µg/L	1	07/03/2024 19:16	06/26/2024 17:22
24062353-024	A RBH-106	NELAP	1.0	< 1.0	µg/L	1	07/03/2024 19:20	06/26/2024 17:22
24062353-025	A NHE-10-2	NELAP	1.0	< 1.0	µg/L	1	07/03/2024 19:24	06/26/2024 17:44
24062353-026	A NHE-16-2	NELAP	1.0	3.7	µg/L	1	07/03/2024 19:28	06/26/2024 17:46
24062353-027	A CRE-70	NELAP	1.0	< 1.0	µg/L	1	07/05/2024 12:13	06/26/2024 18:01
24062353-028	A CRE-71	NELAP	1.0	< 1.0	µg/L	1	07/03/2024 19:53	06/26/2024 18:03
24062353-029	A RAC-08-2	NELAP	1.0	13.2	µg/L	1	07/03/2024 19:57	06/26/2024 18:20
24062353-030	A SBE-02-2	NELAP	1.0	4.6	µg/L	1	07/03/2024 20:01	06/26/2024 18:35
24062353-031	A LSE-06-2	NELAP	1.0	2.1	µg/L	1	07/03/2024 20:04	06/26/2024 18:54
24062353-032	A JMS-11-2	NELAP	1.0	< 1.0	µg/L	1	07/03/2024 20:08	06/26/2024 19:07
24062353-033	A EFS-01-2	NELAP	1.0	6.4	µg/L	1	07/03/2024 20:12	06/26/2024 19:19
24062353-034	A HHS-18-2	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	A OMS-10-2	NELAP	1.0	< 1.0	µg/L	1	07/03/2024 20:41	06/26/2024 19:56
24062353-037	A OMS-12-2	NELAP	1.0	1.1	µg/L	1	07/03/2024 20:45	06/26/2024 19:57
24062353-038	A OMS-17-2	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
24062353-042		NELAP	1.0	< 1.0	µg/L	1	07/05/2024 12:46	06/26/2024 20:11
24062353-043		NELAP	1.0	< 1.0	µg/L	1	07/03/2024 21:25	06/26/2024 20:11
24062353-044		NELAP	1.0	5.6	µg/L	1	07/03/2024 21:29	06/26/2024 20:13
24062353-045		NELAP	1.0	17.7	µg/L	1	07/03/2024 21:32	06/26/2024 20:39
24062353-046		NELAP	1.0	< 1.0	µg/L	1	07/03/2024 21:36	06/26/2024 20:43
24062353-047		NELAP	1.0	17.6	µg/L	1	07/08/2024 23:07	06/26/2024 21:10
24062353-048		NELAP	1.0	4.3	µg/L	1	07/03/2024 21:51	06/26/2024 21:20
27002000-040	DITUTIZZE	1 1 1 1 1	1.0	÷	MA/ L	1	5110012027 21.01	JUILUILULT L 1.20





# **Laboratory Results**

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

Work Order: 24062353

Report Date: 11-Jul-24

Client: Geotechnology, Inc.

### Client Project: J044517.01

### Matrix: DRINKING WATER

Mati	IX. DRINKING WA	ILK						
Sample ID	Client Sample ID	Certification Qual	RL	Result	Units	DF	Date Analyzed	Date Collected
EPA 600 4.1.4 Lead	4, 200.8 R5.4, META	LS BY ICPMS (TOTAL)	)					
24062353-049	A BHS-125-2	NELAP	1.0	8.8	µg/L	1	07/03/2024 21:54	06/26/2024 21:20
24062353-050	A BHS-126-2	NELAP	1.0	5.9	µg/L	1	07/03/2024 22:09	06/26/2024 21:20
24062353-051	A BHS-130-2	NELAP	1.0	< 1.0	µg/L	1	07/03/2024 22:13	06/26/2024 21:26
24062353-052	A BHS-222	NELAP	1.0	< 1.0	µg/L	1	07/03/2024 22:16	06/26/2024 21:30
24062353-053	A BHS-223	NELAP	1.0	1.1	µg/L	1	07/03/2024 22:20	06/26/2024 21:30
24062353-054	A BHS-224	NELAP	1.0	< 1.0	µg/L	1	07/03/2024 22:24	06/26/2024 21:30
24062353-055	A BHS-225	NELAP	1.0	1.3	µg/L	1	07/03/2024 22:27	06/26/2024 21:30
24062353-056	A BHS-226	NELAP	1.0	3.0	µg/L	1	07/03/2024 22:31	06/26/2024 21:15
24062353-057	A BHS-227	NELAP	1.0	2.8	µg/L	1	07/03/2024 22:35	06/26/2024 21:15



# **Receiving Check List**

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Client Project: J044517.01

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

Carrier: Craig McKinney Completed by: On: 28-Jun-24 Paul Schultz	Re	eived By: NR wiewed by: On: Jun-24 J	Elled Hopk Ellie Hopkins	uns
Pages to follow: Chain of custody 6	Extra pages include	ed 0		
Shipping container/cooler in good condition?	Yes 🗸	No	Not Present	Temp °C NA
Type of thermal preservation?	None 🗸		Blue Ice	Dry Ice
Chain of custody present?	Yes 🗸			
Chain of custody signed when relinquished and received?	Yes 🗸	No 🗌		
Chain of custody agrees with sample labels?	Yes 🖌	No 🗌		
Samples in proper container/bottle?	Yes 🖌	No 🗌		
Sample containers intact?	Yes 🗹	No 🗌		
Sufficient sample volume for indicated test?	Yes 🖌	No 🗌		
All samples received within holding time?	Yes 🖌	No 🗌		
Reported field parameters measured:	Field	Lab 🗌	NA 🗸	
Container/Temp Blank temperature in compliance?	Yes 🗸	No 🗌		
When thermal preservation is required, samples are complian 0.1°C - 6.0°C, or when samples are received on ice the same		re between		
Water – at least one vial per sample has zero headspace?	Yes	No	No VOA vials 🖌	
Water - TOX containers have zero headspace?	Yes	No	No TOX containers	
Water - pH acceptable upon receipt?	Yes 🗹	No 🗌	NA	
NPDES/CWA TCN interferences checked/treated in the field?	Yes	No 🗌	NA 🔽	
Any No responses n	nust be detailed be	olow or on the	COC.	

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

Page 9 of 9

CHAIN OF CUSTODY pg. of 6 Work order # 24062353

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

Client:	Geotechnology,	LLC								Ţ	San	npie	s 0	n:	201	ICE	<b>8</b>	BLUE	ICE	₿¥	NO IC	E	N	14	, o	C	LTG	#		1949-000 Been
Address:	11816 Lackland	Road																FIELC		• •							Y			
Aduless.	/ Zip St. Louis, MO 6	3146								•		No					_													
Contact:	Brad Lohrum		Phone	 2:	(31	4) 99	97-74	40																						
E-Mail:	biohrum@teamues.com		Fax:						·		lior	nt C	- <b>-</b>	mo	nte							ч <b>т</b> б 7	L. ur	A	6		71	Cyntyniad	~ 453	222201000
	s known to be involved in	Nigotion 2 If you	o ouroborgo	udil o	malu	F	] Ye	. 17	No		Allei	n O	<b>J</b> 11	1110	111.3					1	Ţ		st.	L Mar						
•	s known to be hazardous?	·	No	wina	фрій	L.,	Jie	> 2	1 110	l											G	T at	TT	ie	and the second se					
Are there any requ	ired reporting limits to be	met on the requ	ested analysi	is?. I	f yes,	plea	ise p	rovide		e.												0	l'a v	<u>,</u> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
	ent section. Yes									┛				_														i ana amin'ny sora a		
Project	Name/Number	S	ample Col	lect	ors	Na	me			ļ	N	IAT	RIX	( 							IE A	NAL	YSIS	S RE	=00	IESTI	<u>-D</u>			
J04	4517.01		Brad Lo								Dri			S	ଦ୍ର	DV	ļ													
Result:	s Requested 1-2 Day (100% Surcharge)	Billing Ins	tructions	# :	and T	ype	_	ontair	iers	Aqueous	<b>Drinking Water</b>	s	<u>s</u>	Special Waste	Groundwater	- Lead														
	3 Day (50% Surcharge)			۶	프 공	티	I	M	E S	ēo	V 0(	Soil	Sludge	ξ	ndw.	adE			1										i	
,				PRES	HNO3	H2SO4	P	MeOH		2	Vate			aste	ater	E200														
Lab Use Only	Sample Identification		e Sampled							ļ				-		œ						-								<b> </b>
2406353-101	SMS-01-2	6/26/24	307	1							X		_	_		X							$ \rightarrow $		ļ					
-002	02-2		3:00	1							X					X														
-003	58-2		3:11	1							X					X														
-034	59-2		5:12	1							X					X														
-005	60-2		3:13	1					Τ	Γ	X		Τ			X														
-004	61-2		3:14	1		T			1	Γ	X					X			~ľ											
~007	67-7		3:15	1		╈			1	1-	X		1			X			_											
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009	PKE-66-7		2.52	1			+		-	<b>ł</b>	X	ļ		+		Х									<b>}</b>	+				
~610	PKE-67-7		3:52	1						<b> </b>	X			~		X												Ì		
	Relinquished By			D	ate/1	ime	2						/	<u> </u>	Re'	ćeive	ed By	1						f	Ø	ate/Ti	me			
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The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions.

BottleOrder: 80481



CHAIN OF CUSTODY pg. 2 of 6 Work order # 2406753

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-100	TEKLAB, INC	. 5445 Horseshoe	Lake Road - Co	ollinsville, IL 62234	- Phone: (618)	344-1004 - Fax	:: (618) 344-100!
---	-------------	------------------	----------------	-----------------------	----------------	----------------	-------------------

Client:	Geotechnology, Ll	c					5	Sam	ples	s on:	8	ICE	BLUE ICE 🕅 NO IC	е°С	LTG#
Address:	11816 Lackland R	oad											FIELD	FOR LAB USE ON	LY
City / State	/ Zip St. Louis, MO 631	46						.ab	Not	es					:
Contact:	Brad Lohrum	Pho	ne: (	314) 99	97-7440										
E-Mail:	blohrum@teamues.com	Fax					- IC	lien	t Co	mm	ents	s:			19-1
Are these sample	s known to be involved in lit	igation? If yes, a surchar	ge will appl	у [	] Yes		5								
•	s known to be hazardous?					: .a _									
Are there any requiring limits in the comm	uired reporting limits to be n nent section. 🏾 Yes 🛛	net on the requested ana	lysis?. If ye	s, plea	ise prov	ide									
Project	Name/Number	Sample C	ollector	s Na	me		┱┻━	М	ATF	XIX			INDICATE A	NALYSIS REQUEST	ED
-	4517.01	Brad	Lohrun	1						s		DW			
Result	s Requested	Billing Instruction	<u> </u>		of Cont	ainers	≥	Drinking Water	Ŭ	Special Waste	Groundwater				
	] 1-2 Day (100% Surcharge)			- I	2	Z o	Aqueous	ng	Soil		ndv	Lead			
Other	3 Day (50% Surcharge)		UNPRES	H2SO4 NaOH	ΗĒ	NaHSO4	ŝ	Wat	e	Vast	vate	E200.8			
Lab Use Only	Sample Identification	Date/Time Sample	d <sup>in</sup> w			[¥  <sup>≁</sup>		<u>e</u>		ୖ୶	Ť	0.8			
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-012	RBE-08-2	4:0	61					X				Х			
-ois	RBE-11-2	4:5	7 1					X				Х			
-014	FES-52-2	4:11	, 1					X		in the second se		Х			
-015	BRH-82	4:3	3 1					X				Х			
-3/6	BRH - 83	4:3	61					X				Х			
217	MCE-09-2	4:5	1					X				X			
	MCE- 87	4:5	1 1					X				X			
-019	MCE- 88	T +	1					X				X			
-020	RBH-30-2	- 5:1	7 1					X				Х			
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		10,1													

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions.

BottleOrder: 80481



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

Client:	Geotechnology, L	LC							5	Sam	ple	s on	: 🕅	ICE		UE IC	:Е 🛛	NO	ICE	••••••			°C		LTG#			
Address:	11816 Lackland R	oad							F	res	erv	ed ir	n: 🖾		3 📓 FI	ELD			ļ	FOR	LA	<u>B U:</u>	SE C	)NL.`	<u>(</u>			
City / State	/ Zip St. Louis, MO 63	146							L	_ab	Not	es																
Contact:	Brad Lohrum	Phone	):	(31	4) 99	7-744	10																					
E-Mail:	blohrum@teamues.com	Fax:							С	lien	t C	omm	ient	ts:					. <u>(</u>					- 177	100 Bar			
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Are these sample	s known to be hazardous?	🗌 Yes 🛛 No																										
Are there any requiring the community of	uired reporting limits to be r tent section.	net on the requested analys	is?. I	f yes,	, plea	se pro	ovide																					
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-	44517.01	Brad L								0	Т																	
	s Requested	Billing Instructions			Type	of Co	ntain	ers	Þ	rink		م <del>ا</del> ور	Gro															
Standard	] 1-2 Day (100% Surcharge)	Billing Instructions					z	:	que	ing	Soil	ecial Wa Shirdne	Ind	Lead														
Other	🔲 3 Day (50% Surcharge)		NPR	HNO3		됩	MeOH	OTHER	snc	Drinking Water	- 1	Special Waste	Groundwater	E200.8														
Lab Use Only	Sample Identification	Date/Time Sampled	B	ω.	ă ¦ ۱		I L	~		ter		ē	4	Ū.8						_				_				
2401,2353-021	RBH-103	6/26/24 5:21	1							Х				X														
-033	1 (04		1							Х				X														
-023	105	5:22	1							X				X														
-624	- 100	4	1							X				X														
-025	NHF-10-2	5:44	1							X				X														
460-	N4E-16-2	5:46	1							X				X				and other states on the							AND A PARAMETER AND			
-007	PF - 70	6:01	1							X				X														
-028	CRE-71	6:03	1							X				X				A CONTRACTOR OF										
	PLC - 08-2	. 6:28	1 1							Х				X														
-074	SBE-02-2	6:35	1							Х				X														
4,20	Relinquished By		C	)ate/	Time	2						Ż	R	ecei	ved By							<u> </u>	Dát	e/Tir	ne			
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BottleOrder: 80481



pg.  $\leq$  of  $\ell$  Work order # <u>24062353</u>

pg. 4 of 6 Work order # <u>24062353</u>

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

Client:	Geotechnology, L	LC							Sa	mp	les	on:	<b>1</b>	ICE	
Address:	11816 Lackland R	Road						_	Pre	ese	rve	d in	:	LAB	FOR LAB USE ONLY
City / State	/ Zip St. Louis, MO 63	146							La	ЬN	ote	s			
Contact:	Brad Lohrum	Phone	: _	(314)	997-	7440									į.
E-Mail:	blohrum@teamues.com	Fax:	_					_	Clie	ent	Cor	nme	ents	s:	na sense se
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	s known to be hazardous?		o 17				• • .								
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-	4517.01	Brad L	ohrur	n				ľ	D	,		s	0	DW	
Result	s Requested	Billing Instructions	# an		pe of	Cont	ainer	s	Drinking Water Aqueous	-	IS	Special Waste	Groundwater	/-L	
	] 1-2 Day (100% Surcharge)		ςı	7	I	2	Z	0	nking Wa Aaueous	Soil	Sludge	alv	ndw	Lead	
Other	3 Day (50% Surcharge)		HNO3 UNPRES	a of	H2SO4	HC	NaHSO4	H	Wat		e	Vast	vate	E200.8	
Lab Use Only	Sample Identification	Date/Time Sampled	s: S		4		4	~	e			'n	Ť	0.8	
24062398-03	LSE-06-2	6/26/24 6:54	1						X					Х	
-632	JMS-11-2	1 7:07	1						X					Х	
-033	EF5-01-2	7:19	1						X					Х	
-034	HHS-18-2	7:32	1						X					Х	
-035	0M5-08-2	1:55	1						X	<				Х	
-176	OMS-10-2	7:56	1						X	<				X	
-03 7	1 12-2	7:51	1							<				Х	
-037	17-2	8:00	1						>	$\langle  $				Х	
-039	20-2	8:07	1						>	<				Х	
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BottleOrder: 80481



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

Client:	Geotechnology, LL	с							Sa	ımp	oles	on:	蘂	ICE	
Address:	11816 Lackland Ro	bad													FOR LAB USE ONLY
City / State	/ Zip St. Louis, MO 631	46							La	ıb N	lote	es			
Contact:	Brad Lohrum	Phone	: (	314)	997-	7440									
	blohrum@teamues.com	Fax:							Cli	ent	Co	mm	ents	5:	an an ann an
Are these samples	s known to be involved in liti	gation? If yes, a surcharge	will app	lv	Π.	Yes	X	No	1						
Are these samples	known to be hazardous?	🗌 Yes 🛛 No													
Are there any requirements in the comm	ired reporting limits to be m ent section. Yes 🕅	et on the requested analysi	s?. If y	es, p	lease	e prov	ride								
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-		Brad Lo							-	,				DV	
	4517.01 s Requested		# an		pe of	Con	taine	rs	Aqueous			Special Waste	Groundwater		
Xesulta X Standard	1-2 Day (100% Surcharge)	Billing Instructions					z		que		Sinda	iai	Ind	Lead	
Other	3 Day (50% Surcharge)		HNO3 UNPRES	NaO	H2SO4	HCL	taine NaHSO4	DTHE	ous		- ge	Was	wate	E200.	
Lab Use Only	Sample Identification	Date/Time Sampled	ES 3	Т	4	Ĩ	04	R	i i			fé	1	0,8	
2402353-04	OMS-40	6/26/24 8:10	1							X				Х	
-042		8:11	1							X				Х	
	OMS-24-2	+	1							X				Х	
-044		SIR	1							X				Х	
-045	ERE-25-3	8:39	1							X				X	
-046	FBE-63	8:43	1							X				Х	
-047	RUC - 93-7-	9:10	1							X				X	
-048	BHS-122-2	9:20	1							X				X	
-049	125-2	1	1							x				X	
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0.00	Relinguished By		Dat	e/Ti	me	1							Re	, Żeiv	red By Date/Time
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BottleOrder: 80481

pg. 5 of 6 Work order # 24062353



pg. 6 of Work order # 2406 2353

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

Client:	Geotechnology, L	LC						Sa	m	ples	on:		ICE	
Address:	11816 Lackland F	Road						Pr	esi	erve	d in	: 🛞	LAB	B FIELD FOR LAB USE ONLY
City / State	/ Zip St. Louis, MO 63	146	_					La	ıb İ	Vote	s			
Contact:	Brad Lohrum	Phone	e: <u>(</u> 3	914) 9	97-744	0								
E-Mail:	blohrum@teamues.com	Fax:						Cli	ent	Co	mm	ents	5:	
Are these sample	s known to be involved in li	tigation? If yes, a surcharge	will appl	y [	] Yes	X	No	1						
	s known to be hazardous?			_										
Are there any requiring the community in the community in the community in the community is a second	uired reporting limits to be nent section.	met on the requested analys	s?. If ye	s, plea	ase pro	ovide								
Project	Name/Number	Sample Co	lector'	s Na	me			┍┖───	M/	ATR	IX			INDICATE ANALYSIS REQUESTED
J04	4517.01	Brad L	ohrum	1					2	T	s	6	DW	
Result	s Requested	Billing Instructions	# and		of Co	ntain	ers	Aqueous		s	Special Waste	Groundwater		
·	1-2 Day (100% Surcharge)		ςŢ	ZJ	:	z Z	0	ng		Sludge	al v	ndv	Lead	
Other	3 Day (50% Surcharge)		HNO3 UNPRES	P	읽힌	NaHSO4		ús VVat		e	Vast	vate	E200.	
Lab Use Only	Sample Identification	Date/Time Sampled	S -	+		4	ſ~	<u>۹</u>			ñ	-	0.8	
24062357-51	BHS - 130-2	6/26/24 9:24	1					)	X				X	
-52	BHS-222	1 9:30	1						×				Х	
-13	1 2.23		1						X				Х	
~5Y	7.2.4		1						X				X	
-55	225		1						X				Х	
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		2/2	7/24	/		50	7				h	n	h	Reed 6/28/24 1550
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BottleOrder: 80481



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

September 30, 2024

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

**RE:** J044517.01



WorkOrder: 24091622

Dear Brad Lohrum:

TEKLAB, INC received 7 samples on 9/20/2024 1:13:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Patrick Riley Project Manager (618)344-1004 ex 44 patrickriley@teklabinc.com



# **Report Contents**

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Client Project: J044517.01

## Work Order: 24091622 Report Date: 30-Sep-24

This reporting package includes the following:

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



## **Definitions**

http://www.teklabinc.com/

#### Client: Geotechnology, Inc.

Client Project: J044517.01

Work Order: 24091622

Report Date: 30-Sep-24

#### **Abbr Definition**

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



## Definitions

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

Client: Geotechnology, Inc.

#### Client Project: J044517.01

### Work Order: 24091622 Report Date: 30-Sep-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: 24091622 Report Date: 30-Sep-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/

Work Order: 24091622 Report Date: 30-Sep-24

### Client: Geotechnology, Inc.

### Client Project: J044517.01

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2025	Collinsville
Illinois	IEPA	1004652024-2	NELAP	4/30/2025	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2025	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2025	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2025	Collinsville
Oklahoma	ODEQ	9978	NELAP	12/31/2024	Collinsville
Arkansas	ADEQ	88-0966		3/14/2025	Collinsville
Illinois	IDPH	17584		5/31/2025	Collinsville
Iowa	IDNR	430		6/1/2026	Collinsville
Kentucky	UST	0073		1/31/2025	Collinsville
Mississippi	MSDH			4/30/2025	Collinsville
Missouri	MDNR	930		1/31/2025	Collinsville
Missouri	MDNR	00930		10/31/2026	Collinsville



# **Laboratory Results**

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

Client: Geotechnology, Inc.

### Client Project: J044517.01

## Work Order: 24091622

Report Date: 30-Sep-24

Matrix: DRINKING WATER

Sample ID	Client Sample ID	Certification Qual	RL	Result	Units	DF	OF Date Analyzed Date Coll						
EPA 600 4.1.4, 200.8 R5.4, METALS BY ICPMS (TOTAL)													
Lead													
24091622-001A	SMS-58-3	NELAP	1.0	<mark>13.5</mark>	µg/L	1	09/26/2024 12:20	09/19/2024 5:37					
24091622-002A	SMS-60-3	NELAP	1.0	<b>12.8</b>	µg/L	1	09/26/2024 12:24	09/19/2024 5:39					
24091622-003A	SMS-61-3	NELAP	1.0	2.7	µg/L	1	09/26/2024 12:28	09/19/2024 5:39					
24091622-004A	SMS-62-3	NELAP	1.0	3.7	µg/L	1	09/26/2024 12:57	09/19/2024 5:40					
24091622-005A	OMS-29-3	NELAP	1.0	15.8	µg/L	1	09/26/2024 12:32	09/19/2024 6:00					
24091622-006A	EFS-01-3	NELAP	1.0	1.9	µg/L	1	09/26/2024 13:01	09/19/2024 6:13					
24091622-007A	RAC-08-3	NELAP	1.0	< 1.0	µg/L	1	09/26/2024 13:05	09/19/2024 6:27					



# **Receiving Check List**

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Client Project: J044517.01

Work Order: 24091622 Report Date: 30-Sep-24

Carrier: John Duarte Completed by: On: 20-Sep-24 Amber Dilallo	Received By: N Reviewed by: On: 20-Sep-24	VR Elled Hopkins	nO
Pages to follow:       Chain of custody       1         Shipping container/cooler in good condition?         Type of thermal preservation?         Chain of custody present?         Chain of custody signed when relinquished and received?         Chain of custody agrees with sample labels?	Extra pages included 0 Yes V No None V Ice Yes V No Yes No Yes No		Temp °C <b>N/A</b> Dry Ice
Samples in proper container/bottle? Sample containers intact? Sufficient sample volume for indicated test? All samples received within holding time? Reported field parameters measured: Container/Temp Blank temperature in compliance?	Yes ♥ No Yes ♥ No Yes ♥ No Yes ♥ No Field Lab Yes ♥ No		
When thermal preservation is required, samples are complian 0.1°C - 6.0°C, or when samples are received on ice the same Water – at least one vial per sample has zero headspace? Water - TOX containers have zero headspace?	nt with a temperature between	No VOA vials 🗹	
Water - pH acceptable upon receipt? NPDES/CWA TCN interferences checked/treated in the field?	Yes ☑ No ☐ Yes □ No ☐		

Samples were checked for turbidity and then preserved with nitric acid upon arrival in the laboratory. - amberdilallo - 9/20/2024 1:42:56 PM

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

Contact: E-Mail: Are these sample:	Brad Lo blohrum s known	Geotechnology, LLC, dba UES         11816 Lackland Road         Zip         St. Louis, MO 63146         ad Lohrum         Phone:         (314) 997-7440         phrum@teamues.com         Fax:         hown to be involved in litigation? If yes, a surcharge will apply         Yes       No								Samples on: ICE BLUE ICE NO ICE M/k °C LTG# Preserved in: LAB FIELD FOR LAB USE ONLY Lab Notes Client Comments:																									
Are there any requirements in the comm	uired rep 1ent sect	to be hazardous? orting limits to be r ion. Yes	net on th							ovide	e				IAT	RI	¥					NDI	CAT	TE 4		AL Y	(SI	SR	EQL	JES	TEI	)			
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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. | of | Work order # <u>2409/62</u>Z



## APPENDIX D

## LIMITATIONS OF REPORT

### ENVIRONMENTAL SAMPLING LIMITATIONS OF REPORT

- 1. The Report has been prepared on behalf of and for the exclusive use of the addressee, solely for use in documenting specific sample results. This report and the findings contained herein shall not, in whole or in part, be disseminated or conveyed to any other party, nor used by any other party in whole or in part, without the prior written consent of UES.
- 2. The sampling was performed in accordance with generally accepted practices of other consultants undertaking similar projects at the same time and in the same geographical area, and UES endeavored to observe that degree of care and skill ordinarily exercised by other consultants under similar circumstances and conditions. The findings and conclusions stated herein must be considered not as scientific certainties, but rather as professional opinions concerning the significance of the limited data gathered during the course of the project. UES does not and cannot represent that the site contains no hazardous waste or material, or other latent condition beyond that observed by UES.
- 3. In the event that information is developed relative to environmental or hazardous waste or material issues at the site and not contained in this report, such information shall be brought to UES' attention. UES will evaluate such information and, based on this evaluation, may modify the conclusions stated in this Report.
- 4. The conclusions and recommendations contained in this Report are based in part upon the data obtained from a limited number of water samples. The identified presence of contaminated water is limited to the extent that they could be identified by instrumentation and sampling and testing. There is a potential for contaminated water above the indicated concentrations to occur elsewhere on the site. The nature and extent of variations between these explorations may not become evident until further exploration. If variations or other latent conditions then appear evident, and/or if changes are made in regulations, it will be necessary to reevaluate the conclusions and recommendations of this report.
- 5. If quantitative laboratory testing was performed as part of the assessment by an outside laboratory, UES has relied upon the data provided, and has not conducted an independent evaluation of the reliability to these data.
- 6. Chemical analyses have been performed for specific parameters during the course of this sampling as described in the text. Do not assume that a given analyte is not present at the site simply because it was not present at the test locations. The analyte may exist on the site where tests were not performed. In addition, it should be noted that additional chemical constituents not tested for during the sampling could be present in water at the site.