



WATER SAMPLING AND REPORTING SERVICES

**COLUMBIA PUBLIC SCHOOLS
ROCK BRIDGE HIGH SCHOOL
4303 SOUTH PROVIDENCE ROAD
COLUMBIA, MISSOURI**

Prepared for:

**COLUMBIA PUBLIC SCHOOLS
COLUMBIA, MISSOURI**

Prepared by:

**GEOTECHNOLOGY, LLC, DBA UES
ST. LOUIS, MISSOURI**

Date:

DECEMBER 22, 2024

Project No.:

J044517.01

**SAFETY
TEAMWORK
RESPONSIVENESS
INTEGRITY
VALUE
EXCELLENCE**



December 22, 2024

Mr. David Seamon
District Project Manager
Columbia Public Schools
1818 West Worley Street
Columbia, Missouri 65203

Re: Water Sampling and Reporting Services
Columbia Public Schools
Rock Bridge High School
4303 South Providence Road
Columbia, Missouri
Project No. J044517.01

Dear Mr. Seamon:

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

SITE AND PROJECT DESCRIPTION

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

DRINKING WATER SAMPLING

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

In general conformance with the RSMo 160.077 requirements, and the Environmental Protection Agency's (EPA) *3Ts for Reducing Lead in Drinking Water in Schools and Child Care Facilities* manual, initial water flushing and sampling activities were conducted on March 14 and 15, 2024, and June 25 and 26, 2024, by Mr. Brad Lohrum, a Missouri-licensed lead risk assessor. Copies of Mr. Lohrum's training certificate and lead license are included in Appendix A.



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

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

Sample Number / Location and Fixture Type	Results
RBH-14 / Room 101 Sink	13.1 ppb
RBH-15 / Room 103 - Station 1 Sink	61 ppb
RBH-16 / Room 103 - Station 2 Sink	9.5 ppb
RBH-17 / Room 103 - Station 3 Sink	13.3 ppb
RBH-18 / Room 103 - Station 4 Sink	19.4 ppb
RBH-20 / Room 103 - Station 5 Sink	17.1 ppb
RBH-30 / Concession Stand – Right-hand Sink	5.1 ppb
RBH-47 / Room 336 Station 1 North Sink	90.4 ppb
RBH-48 / Room 336 Station 1 South Sink	92.1 ppb
RBH-49 / Room 336 Station 2 North Sink	122 ppb
RBH-50 / Room 336 Station 2 South Sink	90 ppb
RBH-51 / Room 336 Station 3 North Sink	201 ppb
RBH-52 / Room 336 Station 3 South Sink	294 ppb
RBH-53 / Room 336 Station 4 East Sink	77 ppb
RBH-54 / Room 336 Station 4 West Sink	188 ppb
RBH-55 / Room 336 Station 5 East Sink	65.7 ppb
RBH-56 / Room 336 Station 5 West Sink	176 ppb
RBH-57 / Room 336 Station 6 East Sink	214 ppb
RBH-58 / Room 336 Southeast Corner Sink	86.3 ppb



Sample Number / Location and Fixture Type	Results
RBH-59 / Room 337 Northeast Corner Sink	11.4 ppb
RBH-60 / Room 338 West Sink	38.2 ppb
RBH-61 / Room 338 East Sink	48.6 ppb
RBH-62 / Room 339 Northwest Corner Sink	18.1 ppb
RBH-64 / Room 348 East Sink	24.2 ppb
RBH-66 / Room 347 Teacher's Sink	14.8 ppb
RBH-69 / Room 344 Teacher's Sink	17.3 ppb
RBH-73 / Room 243 East Sink	35.6 ppb
RBH-75 / Room 242 Teacher's Sink	30 ppb
RBH-84 / Room 229 Sink	5.4 ppb
RBH-100 / Room 409 Sink	12.6 ppb

UES personnel resampled one client-designated outlet on June 26, 2024 (RBH-30-2). Laboratory analysis detected the presence of lead at the level below.

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

Sample Number / Location and Fixture Type	Results
RBH-30-2 / Concession Stand – Right-hand Sink	12.4 ppb

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

RECOMMENDATIONS

Our recommendations are summarized below:

- It is our understanding that the outlets identified in Table 1 that have not been retested have either been removed, marked as non-potable, or have otherwise been taken out of service. Should these fixtures be put back into service following remediation activities, or if replacement fixtures are to be put into service, further sampling and testing should be conducted.
- The outlet identified in Table 2 should be taken out of service pending further remediation activities. This fixture should be resampled and tested prior to being put back into service.

* * * * *



The following attachments are included in and complete this report:

- | | |
|------------|---|
| Figure 1 | - Drinking Water Sample Locations – Ground Floor |
| Figure 2 | - Drinking Water Sample Locations – First Floor |
| Appendix A | - Certificate and License of Environmental Professional |
| Appendix B | - Drinking Water Sampling Forms |
| Appendix C | - Drinking Water Laboratory Data Sheets |
| Appendix D | - Limitations of Report |

* * * * *

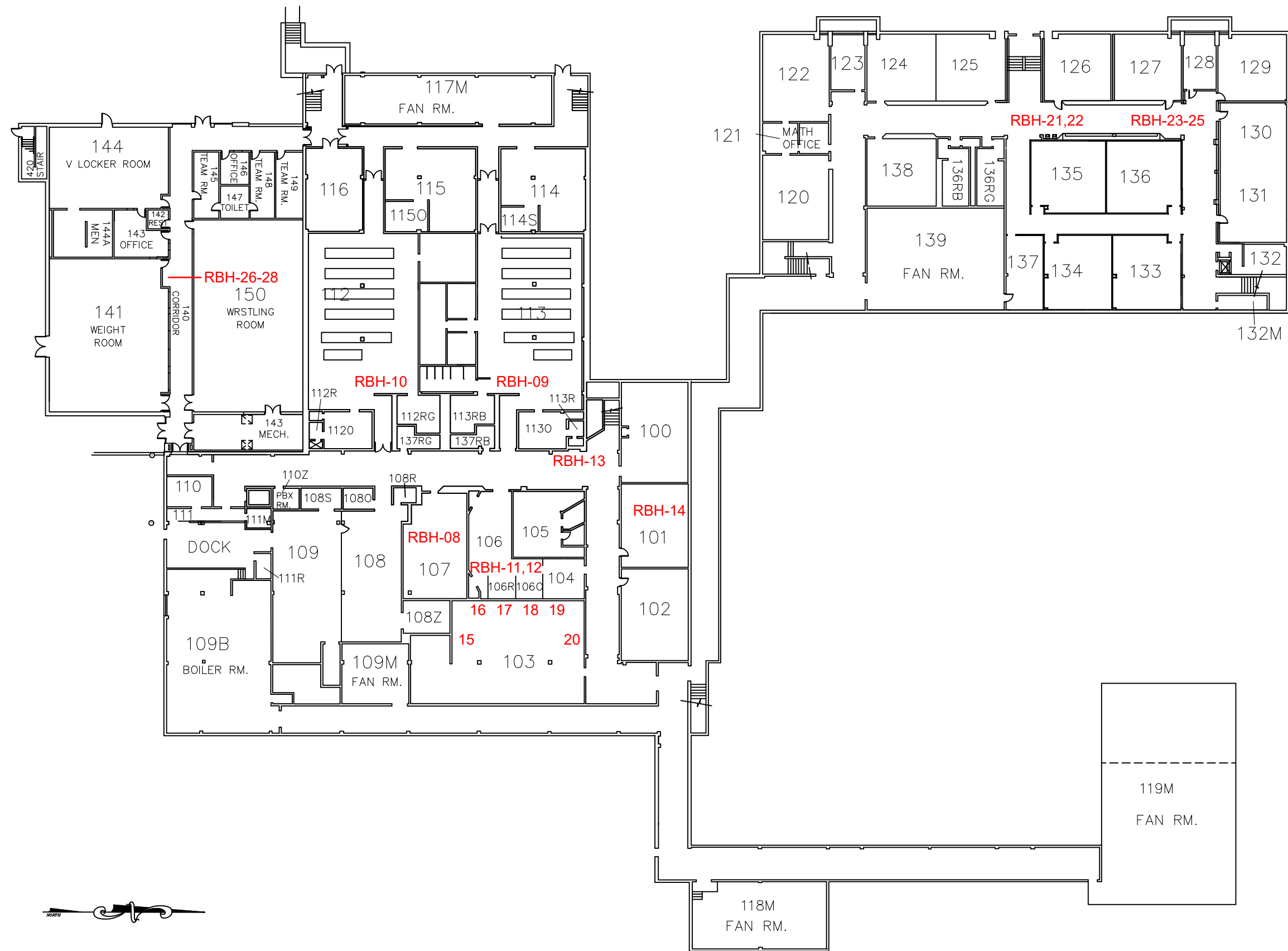
We appreciate the opportunity to provide our professional environmental consulting services to Columbia Public Schools on this project. If you have any questions or comments, please contact me at (314) 997-7440.

Very truly yours,

UES


Bradley J. Lohrum
Project Manager

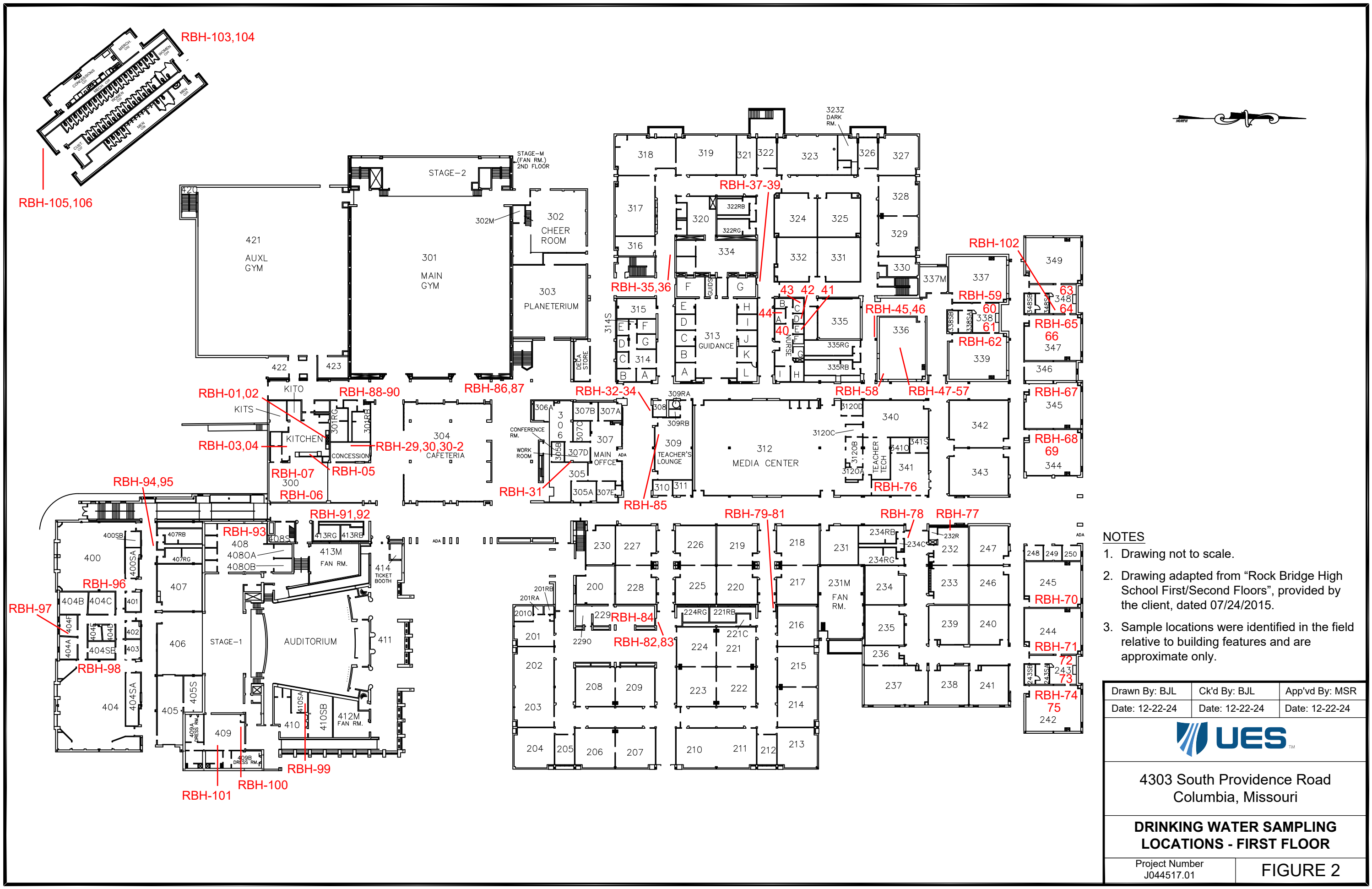
BJL/MSR:bjl/jsj



NOTES

1. Drawing not to scale.
2. Drawing adapted from "Rock Bridge High School Ground Floor", provided by the client, dated 07/21/2014.
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: 12-22-24	Date: 12-22-24	Date: 12-22-24
		
4303 South Providence Road Columbia, Missouri		
DRINKING WATER SAMPLING LOCATIONS - GROUND FLOOR		
Project Number J044517.01	FIGURE 1	





APPENDIX A

CERTIFICATE AND LICENSE OF ENVIRONMENTAL PROFESSIONAL

COLLEGE FOR
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 shu.edu/x39753.xml

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

STATE OF MISSOURI
DEPARTMENT OF HEALTH AND SENIOR SERVICES

LEAD OCCUPATION LICENSE REGISTRATION

Issued to:

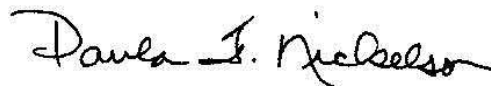
Bradley J. Lohrum

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

Lead Risk Assessor

Category of License

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



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

STATE OF MISSOURI
DEPARTMENT OF HEALTH AND SENIOR SERVICES

Lead Abatement Contractor License

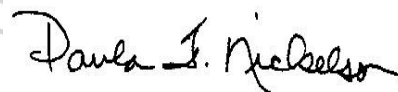
The person, firm or corporation whose name appears on this certificate is licensed as a Lead Abatement Contractor as set forth in the Missouri Revised Statutes 701.300-701.338 and 19 CSR 30-70.180, as long as not suspended or revoked, and is hereby authorized to engage in lead-bearing substance activities.

Issued to:

Geotechnology LLC (UES)

**11816 Lackland Rd Suite 150
St. Louis, MO 63146**

Issuance Date: **2/28/2024**
Expiration Date: **2/28/2026**
License Number: **240229-4652**



Paula F. Nickelson
Director
Department of Health and Senior Services



APPENDIX B

DRINKING WATER SAMPLING FORMS

**DRINKING WATER SAMPLING FORM**

Page 1 of 5

Project Name: Columbia Public Schools Water
Sampling and Reporting Services
Building Name: Rock Bridge High

Project Number: J044517.01
Address: 4303 South Providence Road
Columbia, Missouri

Sample ID	Fixture Type	Location	Flushed By - Date - Time	Sampled By - Date - Time
RBH-01	S	Kitchen - North Dish Wash - Left	BJL - 3/14/24 - 19:52	BJL - 3/15/24 - 4:27
RBH-02	S	Kitchen - North Dish Wash - Right	BJL - 3/14/24 - 19:52	BJL - 3/15/24 - 4:27
RBH-03	S	Kitchen - South Dish Wash - Left	BJL - 3/14/24 - 19:52	BJL - 3/15/24 - 4:27
RBH-04	S	Kitchen - South Dish Wash - Right	BJL - 3/14/24 - 19:52	BJL - 3/15/24 - 4:27
RBH-05	S	Kitchen Food Prep	BJL - 3/14/24 - 19:52	BJL - 3/15/24 - 4:27
RBH-06	S	Room 300	BJL - 3/14/24 - 19:52	BJL - 3/15/24 - 4:27
RBH-07	ICE	Room 300	BJL - 3/14/24 - 19:52	BJL - 3/15/24 - 4:27
RBH-08	S	Room 107	BJL - 3/14/24 - 20:02	BJL - 3/15/24 - 4:33
RBH-09	WF	Room 113	BJL - 3/14/24 - 20:06	BJL - 3/15/24 - 4:36
RBH-10	WF	Room 112	BJL - 3/14/24 - 20:11	BJL - 3/15/24 - 4:36
RBH-11	S	Room 106 - Left	BJL - 3/14/24 - 20:12	BJL - 3/15/24 - 4:38
RBH-12	S	Room 106 - Right	BJL - 3/14/24 - 20:12	BJL - 3/15/24 - 4:38
RBH-13	WF	Hallway at Room 100	BJL - 3/14/24 - 20:14	BJL - 3/15/24 - 4:40
RBH-14	S	Room 101	BJL - 3/14/24 - 20:15	BJL - 3/15/24 - 4:41
RBH-15	S	Room 103 - Station 1	BJL - 3/14/24 - 20:18	BJL - 3/15/24 - 4:47
RBH-16	S	Room 103 - Station 2	BJL - 3/14/24 - 20:18	BJL - 3/15/24 - 4:47
RBH-17	S	Room 103 - Station 3	BJL - 3/14/24 - 20:18	BJL - 3/15/24 - 4:47
RBH-18	S	Room 103 - Station 4	BJL - 3/14/24 - 20:18	BJL - 3/15/24 - 4:47
RBH-19	S	Room 103 - Station 6	BJL - 3/14/24 - 20:18	BJL - 3/15/24 - 4:47
RBH-20	S	Room 103 - Station 5	BJL - 3/14/24 - 20:18	BJL - 3/15/24 - 4:47
RBH-21	WF	Hallway at Room 126 - Left	BJL - 3/14/24 - 20:25	BJL - 3/15/24 - 4:51
RBH-22	WF	Hallway at Room 126 - Right	BJL - 3/14/24 - 20:25	BJL - 3/15/24 - 4:51
RBH-23	WF	Hallway at Room 127 - Left	BJL - 3/14/24 - 20:26	BJL - 3/15/24 - 4:54
RBH-24	WF	Hallway at Room 127 - Right	BJL - 3/14/24 - 20:26	BJL - 3/15/24 - 4:54
RBH-25	BF	Hallway at Room 127 - Right	BJL - 3/14/24 - 20:26	BJL - 3/15/24 - 4:54

BF=Bottle Filling
B=Bubbler

FW=Filtered Water
ICE=Ice Machine

S=Classroom/Other Sink
WF=Water Fountain



DRINKING WATER SAMPLING FORM

Page 2 of 5

Project Name: Columbia Public Schools Water Project Number: J044517.01
Sampling and Reporting Services Address: 4303 South Providence Road
Building Name: Rock Bridge High Columbia, Missouri

Sample ID	Fixture Type	Location	Flushed By - Date - Time	Sampled By - Date - Time
RBH-26	BF	Hallway at Room 141 - Left	BJL - 3/14/24 - 20:31	BJL - 3/15/24 - 5:00
RBH-27	WF	Hallway at Room 141 - Left	BJL - 3/14/24 - 20:31	BJL - 3/15/24 - 5:00
RBH-28	WF	Hallway at Room 141 - Right	BJL - 3/14/24 - 20:31	BJL - 3/15/24 - 5:00
RBH-29	S	Concession Stand - Left	BJL - 3/14/24 - 20:35	BJL - 3/15/24 - 5:04
RBH-30	S	Concession Stand - Right	BJL - 3/14/24 - 20:35	BJL - 3/15/24 - 5:04
RBH-31	S	Room 307D	BJL - 3/14/24 - 20:37	BJL - 3/15/24 - 5:06
RBH-32	WF	Hallway at Room 309 - Left	BJL - 3/14/24 - 20:39	BJL - 3/15/24 - 5:11
RBH-33	BF	Hallway at Room 309 - Right	BJL - 3/14/24 - 20:39	BJL - 3/15/24 - 5:11
RBH-34	WF	Hallway at Room 309 - Right	BJL - 3/14/24 - 20:39	BJL - 3/15/24 - 5:11
RBH-35	WF	Hallway at Room 316 - Left	BJL - 3/14/24 - 20:42	BJL - 3/15/24 - 5:13
RBH-36	WF	Hallway at Room 316 - Right	BJL - 3/14/24 - 20:42	BJL - 3/15/24 - 5:13
RBH-37	WF	Hallway at Room 334 - Left	BJL - 3/14/24 - 20:45	BJL - 3/15/24 - 5:16
RBH-38	BF	Hallway at Room 334 - Right	BJL - 3/14/24 - 20:45	BJL - 3/15/24 - 5:16
RBH-39	WF	Hallway at Room 334 - Right	BJL - 3/14/24 - 20:45	BJL - 3/15/24 - 5:16
RBH-40	S	Nurse's Office - Main	BJL - 3/14/24 - 20:50	BJL - 3/15/24 - 5:20
RBH-41	S	Nurse's Office - E	BJL - 3/14/24 - 20:50	BJL - 3/15/24 - 5:20
RBH-42	S	Nurse's Office - D	BJL - 3/14/24 - 20:50	BJL - 3/15/24 - 5:20
RBH-43	S	Nurse's Office - C	BJL - 3/14/24 - 20:50	BJL - 3/15/24 - 5:20
RBH-44	S	Nurse's Office - A	BJL - 3/14/24 - 20:50	BJL - 3/15/24 - 5:20
RBH-45	WF	Hallway at Room 335 - Left	BJL - 3/14/24 - 20:54	BJL - 3/15/24 - 5:23
RBH-46	WF	Hallway at Room 335 - Right	BJL - 3/14/24 - 20:54	BJL - 3/15/24 - 5:23
RBH-47	S	Room 336 Station 1 North	BJL - 3/14/24 - 20:57	BJL - 3/15/24 - 5:33
RBH-48	S	Room 336 Station 1 South	BJL - 3/14/24 - 20:57	BJL - 3/15/24 - 5:33
RBH-49	S	Room 336 Station 2 North	BJL - 3/14/24 - 20:57	BJL - 3/15/24 - 5:33
RBH-50	S	Room 336 Station 2 South	BJL - 3/14/24 - 20:57	BJL - 3/15/24 - 5:33

BF=Bottle Filling

FW=Filtered Water

S=Classroom/Other Sink

B=Bubbler

ICE=Ice Machine

WF=Water Fountain

**DRINKING WATER SAMPLING FORM**

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Project Name: Columbia Public Schools Water Project Number: J044517.01
Sampling and Reporting Services Address: 4303 South Providence Road
Building Name: Rock Bridge High Columbia, Missouri

Sample ID	Fixture Type	Location	Flushed By - Date - Time	Sampled By - Date - Time
RBH-51	S	Room 336 Station 3 North	BJL - 3/14/24 - 20:57	BJL - 3/15/24 - 5:33
RBH-52	S	Room 336 Station 3 South	BJL - 3/14/24 - 20:57	BJL - 3/15/24 - 5:33
RBH-53	S	Room 336 Station 4 East	BJL - 3/14/24 - 20:57	BJL - 3/15/24 - 5:33
RBH-54	S	Room 336 Station 4 West	BJL - 3/14/24 - 20:57	BJL - 3/15/24 - 5:33
RBH-55	S	Room 336 Station 5 East	BJL - 3/14/24 - 20:57	BJL - 3/15/24 - 5:33
RBH-56	S	Room 336 Station 5 West	BJL - 3/14/24 - 20:57	BJL - 3/15/24 - 5:33
RBH-57	S	Room 336 Station 6 East	BJL - 3/14/24 - 20:57	BJL - 3/15/24 - 5:33
RBH-58	S	Room 336 Southeast Corner	BJL - 3/14/24 - 20:57	BJL - 3/15/24 - 5:33
RBH-59	S	Room 337 Northeast Corner	BJL - 3/14/24 - 21:03	BJL - 3/15/24 - 5:35
RBH-60	S	Room 338 West	BJL - 3/14/24 - 21:04	BJL - 3/15/24 - 5:37
RBH-61	S	Room 338 East	BJL - 3/14/24 - 21:04	BJL - 3/15/24 - 5:37
RBH-62	S	Room 339 Northwest Corner	BJL - 3/14/24 - 21:06	BJL - 3/15/24 - 5:38
RBH-63	S	Room 348 West	BJL - 3/14/24 - 21:09	BJL - 3/15/24 - 5:42
RBH-64	S	Room 348 East	BJL - 3/14/24 - 21:09	BJL - 3/15/24 - 5:42
RBH-65	S	Room 347 Northwest Corner	BJL - 3/14/24 - 21:11	BJL - 3/15/24 - 5:48
RBH-66	S	Room 347 Teacher	BJL - 3/14/24 - 21:11	BJL - 3/15/24 - 5:48
RBH-67	S	Room 345 Northwest Corner	BJL - 3/14/24 - 21:13	BJL - 3/15/24 - 5:50
RBH-68	S	Room 344 Northwest Corner	BJL - 3/14/24 - 21:14	BJL - 3/15/24 - 5:52
RBH-69	S	Room 344 Teacher	BJL - 3/14/24 - 21:14	BJL - 3/15/24 - 5:52
RBH-70	S	Room 245 Northeast Corner	BJL - 3/14/24 - 21:16	BJL - 3/15/24 - 5:54
RBH-71	S	Room 244 Northeast Corner	BJL - 3/14/24 - 21:17	BJL - 3/15/24 - 5:55
RBH-72	S	Room 243 West	BJL - 3/14/24 - 21:20	BJL - 3/15/24 - 5:57
RBH-73	S	Room 243 East	BJL - 3/14/24 - 21:20	BJL - 3/15/24 - 5:57
RBH-74	S	Room 242 Northwest Corner	BJL - 3/14/24 - 21:22	BJL - 3/15/24 - 5:59
RBH-75	S	Room 242 Teacher	BJL - 3/14/24 - 21:22	BJL - 3/15/24 - 5:59

BF=Bottle Filling
B=Bubbler

FW=Filtered Water
ICE=Ice Machine

S=Classroom/Other Sink
WF=Water Fountain



DRINKING WATER SAMPLING FORM

Page 4 of 5

Project Name: Columbia Public Schools Water
Sampling and Reporting Services
Building Name: Rock Bridge High

Project Number: J044517.01
Address: 4303 South Providence Road
Columbia, Missouri

Sample ID	Fixture Type	Location	Flushed By - Date - Time	Sampled By - Date - Time
RBH-76	S	Room 341	BJL - 3/14/24 - 21:25	BJL - 3/15/24 - 6:02
RBH-77	S	Room 232	BJL - 3/14/24 - 21:27	BJL - 3/15/24 - 6:03
RBH-78	WF	Hallway at Room 232 - Right	BJL - 3/14/24 - 21:28	BJL - 3/15/24 - 6:04
RBH-79	WF	Hallway at Room 216 - Left	BJL - 3/14/24 - 21:31	BJL - 3/15/24 - 6:07
RBH-80	BF	Hallway at Room 216 - Right	BJL - 3/14/24 - 21:31	BJL - 3/15/24 - 6:07
RBH-81	WF	Hallway at Room 216 - Right	BJL - 3/14/24 - 21:31	BJL - 3/15/24 - 6:07
RBH-82	BF	Hallway at Room 224 - Left	BJL - 3/14/24 - 21:34	BJL - 3/15/24 - 6:10
RBH-83	WF	Hallway at Room 224 - Left	BJL - 3/14/24 - 21:34	BJL - 3/15/24 - 6:10
RBH-84	S	Room 229	BJL - 3/14/24 - 21:36	BJL - 3/15/24 - 6:11
RBH-85	S	Room 309	BJL - 3/14/24 - 21:38	BJL - 3/15/24 - 6:14
RBH-86	WF	Hallway at Gym - North Left	BJL - 3/14/24 - 21:40	BJL - 3/15/24 - 6:16
RBH-87	WF	Hallway at Gym - North Right	BJL - 3/14/24 - 21:40	BJL - 3/15/24 - 6:16
RBH-88	BF	Hallway at Gym - South Left	BJL - 3/14/24 - 21:41	BJL - 3/15/24 - 6:19
RBH-89	WF	Hallway at Gym - South Left	BJL - 3/14/24 - 21:41	BJL - 3/15/24 - 6:19
RBH-90	WF	Hallway at Gym - South Right	BJL - 3/14/24 - 21:41	BJL - 3/15/24 - 6:19
RBH-91	WF	Hallway at Room 413 - Left	BJL - 3/14/24 - 21:45	BJL - 3/15/24 - 6:21
RBH-92	WF	Hallway at Room 413 - Right	BJL - 3/14/24 - 21:45	BJL - 3/15/24 - 6:21
RBH-93	S	Room 408	BJL - 3/14/24 - 21:47	BJL - 3/15/24 - 6:23
RBH-94	WF	Hallway at Room 400 - Left	BJL - 3/14/24 - 21:50	BJL - 3/15/24 - 6:25
RBH-95	WF	Hallway at Room 400 - Right	BJL - 3/14/24 - 21:50	BJL - 3/15/24 - 6:25
RBH-96	WF	Room 400	BJL - 3/14/24 - 21:52	BJL - 3/15/24 - 6:26
RBH-97	S	Room 404F	BJL - 3/14/24 - 21:54	BJL - 3/15/24 - 6:28
RBH-98	WF	Room 404	BJL - 3/14/24 - 21:55	BJL - 3/15/24 - 6:28
RBH-99	S	Room 410SA	BJL - 3/14/24 - 22:00	BJL - 3/15/24 - 6:34
RBH-100	S	Room 409	BJL - 3/14/24 - 22:02	BJL - 3/15/24 - 6:35

BF=Bottle Filling
B=Bubbler

FW=Filtered Water
ICE=Ice Machine

S=Classroom/Other Sink
WF=Water Fountain



APPENDIX C

DRINKING WATER LABORATORY DATA SHEETS

April 02, 2024

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



Illinois	100226
Illinois	1004652024-2
Kansas	E-10374
Louisiana	05002
Louisiana	05003
Oklahoma	9978

RE: J044517.01

WorkOrder: 24031315

Dear Brad Lohrum:

TEKLAB, INC received 60 samples on 3/18/2024 1:52:00 PM for the analysis presented in the following report.

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

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

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

Sincerely,



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



Report Contents

<http://www.teklabinc.com/>

Client: Geotechnology, Inc.

Work Order: 24031315

Client Project: J044517.01

Report Date: 02-Apr-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

Client: Geotechnology, Inc.**Work Order:** 24031315**Client Project:** J044517.01**Report Date:** 02-Apr-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: Geotechnology, Inc.

Work Order: 24031315

Client Project: J044517.01

Report Date: 02-Apr-24

Qualifiers

- | | |
|---|--|
| # - Unknown hydrocarbon | B - Analyte detected in associated Method Blank |
| C - RL shown is a Client Requested Quantitation Limit | E - Value above quantitation range |
| H - Holding times exceeded | I - Associated internal standard was outside method criteria |
| J - Analyte detected below quantitation limits | M - Manual Integration used to determine area response |
| ND - Not Detected at the Reporting Limit | R - RPD outside accepted recovery limits |
| S - Spike Recovery outside recovery limits | T - TIC(Tentatively identified compound) |
| X - Value exceeds Maximum Contaminant Level | |



Case Narrative

<http://www.teklabinc.com/>

Client: Geotechnology, Inc.

Work Order: 24031315

Client Project: J044517.01

Report Date: 02-Apr-24

Cooler Receipt Temp: N/A °C

Locations

Collinsville

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email jhriley@teklabinc.com

Collinsville Air

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email EHurley@teklabinc.com

Springfield

Address 3920 Pintail Dr
Springfield, IL 62711-9415
Phone (217) 698-1004
Fax (217) 698-1005
Email KKlostermann@teklabinc.com

Chicago

Address 1319 Butterfield Rd.
Downers Grove, IL 60515
Phone (630) 324-6855
Fax
Email arenner@teklabinc.com

Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
Email jhriley@teklabinc.com

Client: Geotechnology, Inc.**Work Order:** 24031315**Client Project:** J044517.01**Report Date:** 02-Apr-24

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



Laboratory Results

<http://www.teklabinc.com/>

Client: Geotechnology, Inc.

Work Order: 24031315

Client Project: J044517.01

Report Date: 02-Apr-24

Matrix: DRINKING WATER

Sample ID	Client Sample ID	Certification	Qual	RL	Result	Units	DF	Date Analyzed	Date Collected
EPA 600 4.1.4, 200.8 R5.4, METALS BY ICPMS (TOTAL)									
Lead									
24031315-001A	BHS-122	NELAP		1.0	5.0	µg/L	1	03/28/2024 9:11	03/15/2024 3:43
24031315-002A	BHS-123	NELAP		1.0	1.8	µg/L	1	03/27/2024 9:03	03/15/2024 3:43
24031315-003A	BHS-124	NELAP		1.0	2.1	µg/L	1	03/27/2024 9:33	03/15/2024 3:43
24031315-004A	BHS-125	NELAP		1.0	6.7	µg/L	1	03/27/2024 9:37	03/15/2024 3:43
24031315-005A	BHS-126	NELAP		1.0	5.2	µg/L	1	03/27/2024 9:41	03/15/2024 3:43
24031315-006A	BHS-127	NELAP		1.0	< 1.0	µg/L	1	03/27/2024 9:46	03/15/2024 3:43
24031315-007A	RBH-01	NELAP		1.0	2.7	µg/L	1	03/26/2024 15:15	03/15/2024 4:27
24031315-008A	RBH-02	NELAP		1.0	1.5	µg/L	1	03/26/2024 15:20	03/15/2024 4:27
24031315-009A	RBH-03	NELAP		1.0	2.3	µg/L	1	03/26/2024 15:24	03/15/2024 4:27
24031315-010A	RBH-04	NELAP		1.0	2.1	µg/L	1	03/26/2024 15:28	03/15/2024 4:27
24031315-011A	RBH-05	NELAP		1.0	3.1	µg/L	1	03/26/2024 15:33	03/15/2024 4:27
24031315-012A	RBH-06	NELAP		1.0	4.9	µg/L	1	03/26/2024 15:37	03/15/2024 4:27
24031315-013A	RBH-07	NELAP		1.0	< 1.0	µg/L	1	03/26/2024 15:41	03/15/2024 4:27
24031315-014A	RBH-08	NELAP		1.0	1.9	µg/L	1	03/27/2024 9:50	03/15/2024 4:33
24031315-015A	RBH-09	NELAP		1.0	< 1.0	µg/L	1	03/27/2024 9:54	03/15/2024 4:36
24031315-016A	RBH-10	NELAP		1.0	< 1.0	µg/L	1	03/27/2024 9:59	03/15/2024 4:36
24031315-017A	RBH-11	NELAP		1.0	< 1.0	µg/L	1	03/27/2024 10:37	03/15/2024 4:38
24031315-018A	RBH-12	NELAP		1.0	< 1.0	µg/L	1	03/27/2024 10:42	03/15/2024 4:38
24031315-019A	RBH-13	NELAP		1.0	< 1.0	µg/L	1	03/27/2024 10:46	03/15/2024 4:40
24031315-020A	RBH-14	NELAP		1.0	13.1	µg/L	1	03/28/2024 7:28	03/15/2024 4:41
24031315-021A	RBH-15	NELAP		1.0	61.0	µg/L	5	03/27/2024 15:07	03/15/2024 4:47
24031315-022A	RBH-16	NELAP		1.0	9.5	µg/L	5	03/27/2024 15:12	03/15/2024 4:47
24031315-023A	RBH-17	NELAP		1.0	13.3	µg/L	5	03/27/2024 15:17	03/15/2024 4:47
24031315-024A	RBH-18	NELAP		1.0	19.4	µg/L	5	03/27/2024 16:46	03/15/2024 4:47
24031315-025A	RBH-19	NELAP		1.0	4.4	µg/L	5	03/27/2024 15:22	03/15/2024 4:47
24031315-026A	RBH-20	NELAP		1.0	17.1	µg/L	5	03/27/2024 15:27	03/15/2024 4:47
24031315-027A	RBH-21	NELAP		1.0	1.6	µg/L	1	03/27/2024 10:50	03/15/2024 4:51
24031315-028A	RBH-22	NELAP		1.0	2.3	µg/L	1	03/27/2024 10:54	03/15/2024 4:51
24031315-029A	RBH-23	NELAP		1.0	2.5	µg/L	1	03/28/2024 7:45	03/15/2024 4:54
24031315-030A	RBH-24	NELAP		1.0	1.4	µg/L	1	03/27/2024 10:59	03/15/2024 4:54
24031315-031A	RBH-25	NELAP		1.0	1.4	µg/L	1	03/27/2024 11:03	03/15/2024 4:54
24031315-032A	RBH-26	NELAP		1.0	< 1.0	µg/L	1	03/27/2024 11:50	03/15/2024 5:00
24031315-033A	RBH-27	NELAP		1.0	< 1.0	µg/L	1	03/27/2024 11:55	03/15/2024 5:00
24031315-034A	RBH-28	NELAP		1.0	< 1.0	µg/L	1	03/27/2024 11:59	03/15/2024 5:00
24031315-035A	RBH-29	NELAP		1.0	2.5	µg/L	1	03/27/2024 12:03	03/15/2024 5:04
24031315-036A	RBH-30	NELAP		1.0	5.1	µg/L	1	03/26/2024 18:05	03/15/2024 5:04
24031315-037A	RBH-31	NELAP		1.0	< 1.0	µg/L	1	03/26/2024 18:09	03/15/2024 5:06
24031315-038A	RBH-32	NELAP		1.0	< 1.0	µg/L	1	03/26/2024 18:13	03/15/2024 5:11
24031315-039A	RBH-33	NELAP		1.0	< 1.0	µg/L	1	03/27/2024 12:07	03/15/2024 5:11
24031315-040A	RBH-34	NELAP		1.0	< 1.0	µg/L	1	03/26/2024 18:18	03/15/2024 5:11
24031315-041A	RBH-35	NELAP		1.0	4.9	µg/L	1	03/26/2024 18:22	03/15/2024 5:13
24031315-042A	RBH-36	NELAP		1.0	3.3	µg/L	1	03/26/2024 18:26	03/15/2024 5:13
24031315-043A	RBH-37	NELAP		1.0	1.4	µg/L	1	03/26/2024 18:31	03/15/2024 5:16
24031315-044A	RBH-38	NELAP		1.0	1.8	µg/L	1	03/26/2024 18:35	03/15/2024 5:16
24031315-045A	RBH-39	NELAP		1.0	1.7	µg/L	1	03/26/2024 18:39	03/15/2024 5:16
24031315-046A	RBH-40	NELAP		1.0	< 1.0	µg/L	1	03/27/2024 12:51	03/15/2024 5:20
24031315-047A	RBH-41	NELAP		1.0	1.2	µg/L	1	03/27/2024 12:56	03/15/2024 5:20
24031315-048A	RBH-42	NELAP		1.0	1.5	µg/L	1	03/27/2024 13:00	03/15/2024 5:20

Client: Geotechnology, Inc.

Work Order: 24031315

Client Project: J044517.01

Report Date: 02-Apr-24

Matrix: DRINKING WATER

Sample ID	Client Sample ID	Certification	Qual	RL	Result	Units	DF	Date Analyzed	Date Collected
EPA 600 4.1.4, 200.8 R5.4, METALS BY ICPMS (TOTAL)									
Lead									
24031315-049A	RBH-43	NELAP		1.0	1.4	µg/L	1	03/27/2024 13:04	03/15/2024 5:20
24031315-050A	RBH-44	NELAP		1.0	2.6	µg/L	1	03/27/2024 13:08	03/15/2024 5:20
24031315-051A	RBH-45	NELAP		1.0	< 1.0	µg/L	1	03/27/2024 13:21	03/15/2024 5:23
24031315-052A	RBH-46	NELAP		1.0	< 1.0	µg/L	1	03/26/2024 22:23	03/15/2024 5:23
24031315-053A	RBH-47	NELAP		1.0	90.4	µg/L	5	03/27/2024 15:32	03/15/2024 5:33
24031315-054A	RBH-48	NELAP		1.0	92.1	µg/L	5	03/27/2024 15:36	03/15/2024 5:33
24031315-055A	RBH-49	NELAP		1.0	122	µg/L	5	03/27/2024 16:11	03/15/2024 5:33
24031315-056A	RBH-50	NELAP		1.0	90.0	µg/L	5	03/27/2024 16:16	03/15/2024 5:33
24031315-057A	RBH-51	NELAP		1.0	201	µg/L	5	03/27/2024 16:21	03/15/2024 5:33
24031315-058A	RBH-52	NELAP		1.0	294	µg/L	5	03/27/2024 16:26	03/15/2024 5:33
24031315-059A	RBH-53	NELAP		1.0	77.0	µg/L	5	03/27/2024 17:35	03/15/2024 5:33
24031315-060A	RBH-54	NELAP		1.0	188	µg/L	5	03/27/2024 16:31	03/15/2024 5:33

Client: Geotechnology, Inc.

Work Order: 24031315

Client Project: J044517.01

Report Date: 02-Apr-24

Carrier: Employee

Received By: LEH

Completed by:

On:

18-Mar-24

Amber Dilallo

Reviewed by:

On:

18-Mar-24

Ellie Hopkins

Pages to follow:

Chain of custody

6

Extra pages included

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 must be detailed below or on the COC.

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

CHAIN OF CUSTODY

pg. 1 of 11 Work order # 24031315

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 Phone: (314) 997-7440 E-Mail: blohrum@teamues.com Fax:	Samples on: <input type="checkbox"/> ICE <input type="checkbox"/> BLUE ICE <input checked="" type="checkbox"/> NO ICE <u>NA</u> °C LTG# _____ Preserved in: <input checked="" type="checkbox"/> LAB <input type="checkbox"/> FIELD FOR LAB USE ONLY Lab Notes Client Comments:
--	--

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No
 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

Project Name/Number		Sample Collector's Name		MATRIX		INDICATE ANALYSIS REQUESTED																			
J044517.01		Brad Lohrum																							
Results Requested		Billing Instructions		# and Type of Containers										Drinking Water		Soil		Sludge		Special Waste		Groundwater		DW - Lead E200.8	
<input checked="" type="checkbox"/> Standard <input type="checkbox"/> 1-2 Day (100% Surcharge) <input type="checkbox"/> Other <input type="checkbox"/> 3 Day (50% Surcharge)				UNPRES	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	OTHER														
Lab Use Only	Sample Identification	Date/Time Sampled																							
24031315	BHS - 122	3/15/24 3:43	1										X								X				
002	123		1										X								X				
003	124		1										X								X				
004	125		1										X								X				
005	126		1										X								X				
006	127		1										X								X				
007	RBH - 01	4:27	1										X								X				
008	02		1										X								X				
009	03		1										X								X				
010	04		1										X								X				

Relinquished By		Date/Time		Received By		Date/Time	
[Signature]		3/15/24 1214		[Signature]		3/18/24 1214	
[Signature]		3/18/24 1352		[Signature]		3/18/24 1352	

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

BottleOrder: 80481



pg. 2 of 11 Work order # 24031315

[illegible]

CHAIN OF CUSTODY

pg. 3 of 11 Work order # 24031315

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 Phone: (314) 997-7440 E-Mail: blohrum@teamues.com Fax:	Samples on: <input checked="" type="checkbox"/> ICE <input type="checkbox"/> BLUE ICE <input type="checkbox"/> NO ICE °C LTG# Preserved in: <input checked="" type="checkbox"/> LAB <input type="checkbox"/> FIELD FOR LAB USE ONLY Lab Notes Client Comments:
--	--

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No
 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

Project Name/Number		Sample Collector's Name		MATRIX		INDICATE ANALYSIS REQUESTED																			
J044517.01		Brad Lohrum																							
Results Requested		Billing Instructions		# and Type of Containers										Drinking Water		Soil		Sludge		Special Waste		Groundwater		DW - Lead E200.8	
<input checked="" type="checkbox"/> Standard <input type="checkbox"/> 1-2 Day (100% Surcharge) <input type="checkbox"/> Other <input type="checkbox"/> 3 Day (50% Surcharge)				UNPRES	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	OTHER														
Lab Use Only	Sample Identification	Date/Time Sampled																							
24031315	RBH-15	3/15/24 4:47	1																						
022	16		1																						
023	17		1																						
024	18		1																						
025	19		1																						
026	20		1																						
027	21	4:51	1																						
028	22	+	1																						
029	23	4:54	1																						
030	24	+	1																						

Relinquished By		Date/Time		Received By		Date/Time	
Brad Lohrum		3/15/24 1214		John R. Mark		3/18/24 1214	
John R. Mark		3/18/24 1352		James H. Mark		3/18/24 1352	

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

BottleOrder: 80481



CHAIN OF CUSTODY

pg. 4 of 11 Work order # 24031315

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	Phone:	(314) 997-7440
E-Mail:	blohrum@teamues.com	Fax:	

Samples on:	<input checked="" type="checkbox"/> ICE	<input type="checkbox"/> BLUE ICE	<input type="checkbox"/> NO ICE	°C	LTG#
Preserved in:	<input checked="" type="checkbox"/> LAB	<input type="checkbox"/> FIELD	FOR LAB USE ONLY		
Lab Notes					

Client Comments:

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No
 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

Project Name/Number		Sample Collector's Name		MATRIX		INDICATE ANALYSIS REQUESTED																															
J044517.01		Brad Lohrum																																			
Results Requested		Billing Instructions		# and Type of Containers								Drinking Water		Soil		Sludge		Special Waste		Groundwater		DW - Lead E200.8															
<input checked="" type="checkbox"/> Standard <input type="checkbox"/> 1-2 Day (100% Surcharge) <input type="checkbox"/> Other <input type="checkbox"/> 3 Day (50% Surcharge)				UNPRS HNO3 NaOH H2SO4 HCL MeOH NaHSO4 OTHER								Aquaeous																									
Lab Use Only	Sample Identification	Date/Time Sampled		UNPRS	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	OTHER																										
24031315	RBH-25	3/15/24 4:54	1									X																									
032	26	5:00	1									X																									
033	27	+	1									X																									
034	28	+	1									X																									
035	29	5:04	1									X																									
036	30	+	1									X																									
037	31	5:06	1									X																									
038	32	5:11	1									X																									
039	33	+	1									X																									
040	34	+	1									X																									

Relinquished By		Date/Time	Received By		Date/Time
Brad Lohrum		3/15/24 1214	John D. [Signature]		3/18/24 1214
John D. [Signature]		3/19/24 1352	[Signature]		3/18/24 1352

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

BottleOrder: 80481



pg. 5 of 11

Work order # 24031315

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

Client: <u>Geotechnology, LLC</u>		Samples on: <input type="checkbox"/> ICE <input type="checkbox"/> BLUE ICE <input type="checkbox"/> NO ICE <u> </u> °C LTG# <u> </u>	
Address: <u>11816 Lackland Road</u>		Preserved in: <input type="checkbox"/> LAB <input type="checkbox"/> FIELD <u>FOR LAB USE ONLY</u>	
City / State / Zip <u>St. Louis, MO 63146</u>		Lab Notes	
Contact: <u>Brad Lohrum</u>	Phone: <u>(314) 997-7440</u>		
E-Mail: <u>blohrum@teamues.com</u>	Fax: <u> </u>	Client Comments:	

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No

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

[illegible]

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 11 Work order # 24031315

Client: Geotechnology, LLC	Samples on: <input type="checkbox"/> ICE <input type="checkbox"/> BLUE ICE <input type="checkbox"/> NO ICE _____ °C LTG# _____
Address: 11816 Lackland Road	Preserved in: <input type="checkbox"/> LAB <input type="checkbox"/> FIELD <u>FOR LAB USE ONLY</u>
City / State / Zip St. Louis, MO 63146	Lab Notes
Contact: Brad Lohrum Phone: (314) 997-7440	Client Comments:
E-Mail: blohrum@teamues.com Fax:	

Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☐ Yes ☒ No

Project Name/Number		Sample Collector's Name							MATRIX		INDICATE ANALYSIS REQUESTED																
J044517.01		Brad Lohrum							Aqueous	Drinking Water	Soil	Sludge	Special Waste	Groundwater	DW - Lead E200.8												
Results Requested		Billing Instructions	# and Type of Containers																								
<input checked="" type="checkbox"/> Standard <input type="checkbox"/> 1-2 Day (100% Surcharge)			UNRES	HNO ₃	NaOH	H ₂ SO ₄	HCL	MeOH	NaHSO ₄	OTHER																	
<input type="checkbox"/> Other _____ <input type="checkbox"/> 3 Day (50% Surcharge)																											
Lab Use Only	Sample Identification	Date/Time Sampled																									
24031312-051	RBH-45	3/15/24 5:23	1								X					X											
OS2	46	+	1								X					X											
OS3	47	5:33	1								X					X											
OS4	48		1								X					X											
OS5	49		1								X					X											
OS6	50		1								X					X											
OS7	51		1								X					X											
OS8	52		1								X					X											
OS9	53		1								X					X											
OL(0)	54	+ +	1								X					X											
Relinquished By		Date/Time		Received By		Date/Time																					
Bryant [Signature]		3/15/24 1214		John D. Martin [Signature]		3/18/24 1214																					
John D. Martin [Signature]		3/18/24 1352		[Signature]		3/18/24 1352																					

BottleOrder: 80481



April 02, 2024

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



Illinois	100226
Illinois	1004652024-2
Kansas	E-10374
Louisiana	05002
Louisiana	05003
Oklahoma	9978

RE: J044517.01

WorkOrder: 24031316

Dear Brad Lohrum:

TEKLAB, INC received 48 samples on 3/18/2024 1:52:00 PM for the analysis presented in the following report.

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

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

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

Sincerely,



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



Report Contents

<http://www.teklabinc.com/>

Client: Geotechnology, Inc.

Work Order: 24031316

Client Project: J044517.01

Report Date: 02-Apr-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

Client: Geotechnology, Inc.**Work Order:** 24031316**Client Project:** J044517.01**Report Date:** 02-Apr-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: Geotechnology, Inc.

Work Order: 24031316

Client Project: J044517.01

Report Date: 02-Apr-24

Qualifiers

- | | |
|---|--|
| # - Unknown hydrocarbon | B - Analyte detected in associated Method Blank |
| C - RL shown is a Client Requested Quantitation Limit | E - Value above quantitation range |
| H - Holding times exceeded | I - Associated internal standard was outside method criteria |
| J - Analyte detected below quantitation limits | M - Manual Integration used to determine area response |
| ND - Not Detected at the Reporting Limit | R - RPD outside accepted recovery limits |
| S - Spike Recovery outside recovery limits | T - TIC(Tentatively identified compound) |
| X - Value exceeds Maximum Contaminant Level | |



Case Narrative

<http://www.teklabinc.com/>

Client: Geotechnology, Inc.

Work Order: 24031316

Client Project: J044517.01

Report Date: 02-Apr-24

Cooler Receipt Temp: N/A °C

Locations

Collinsville

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email jhriley@teklabinc.com

Collinsville Air

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email EHurley@teklabinc.com

Springfield

Address 3920 Pintail Dr
Springfield, IL 62711-9415
Phone (217) 698-1004
Fax (217) 698-1005
Email KKlostermann@teklabinc.com

Chicago

Address 1319 Butterfield Rd.
Downers Grove, IL 60515
Phone (630) 324-6855
Fax
Email arenner@teklabinc.com

Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
Email jhriley@teklabinc.com

Client: Geotechnology, Inc.**Work Order:** 24031316**Client Project:** J044517.01**Report Date:** 02-Apr-24

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



Laboratory Results

<http://www.teklabinc.com/>

Client: Geotechnology, Inc.

Work Order: 24031316

Client Project: J044517.01

Report Date: 02-Apr-24

Matrix: DRINKING WATER

Sample ID	Client Sample ID	Certification	Qual	RL	Result	Units	DF	Date Analyzed	Date Collected
EPA 600 4.1.4, 200.8 R5.4, METALS BY ICPMS (TOTAL)									
Lead									
24031316-001A	RBH-55	NELAP		1.0	65.7	µg/L	5	03/27/2024 17:16	03/15/2024 5:33
24031316-002A	RBH-56	NELAP		1.0	176	µg/L	5	03/27/2024 16:36	03/15/2024 5:33
24031316-003A	RBH-57	NELAP		1.0	214	µg/L	5	03/27/2024 16:41	03/15/2024 5:33
24031316-004A	RBH-58	NELAP		1.0	86.3	µg/L	5	03/27/2024 17:21	03/15/2024 5:33
24031316-005A	RBH-59	NELAP		1.0	11.4	µg/L	1	03/26/2024 22:45	03/15/2024 5:35
24031316-006A	RBH-60	NELAP		1.0	38.2	µg/L	1	03/26/2024 22:49	03/15/2024 5:37
24031316-007A	RBH-61	NELAP		1.0	48.6	µg/L	1	03/26/2024 22:53	03/15/2024 5:37
24031316-008A	RBH-62	NELAP		1.0	18.1	µg/L	1	03/26/2024 22:56	03/15/2024 5:38
24031316-009A	RBH-63	NELAP		1.0	2.2	µg/L	1	03/26/2024 23:00	03/15/2024 5:42
24031316-010A	RBH-64	NELAP		1.0	24.2	µg/L	1	03/26/2024 23:04	03/15/2024 5:42
24031316-011A	RBH-65	NELAP		1.0	1.9	µg/L	1	03/26/2024 23:07	03/15/2024 5:48
24031316-012A	RBH-66	NELAP		1.0	14.8	µg/L	5	03/27/2024 17:26	03/15/2024 5:48
24031316-013A	RBH-67	NELAP		1.0	< 1.0	µg/L	1	03/26/2024 23:11	03/15/2024 5:50
24031316-014A	RBH-68	NELAP		1.0	1.3	µg/L	1	03/26/2024 23:15	03/15/2024 5:52
24031316-015A	RBH-69	NELAP		1.0	17.3	µg/L	5	03/27/2024 17:31	03/15/2024 5:52
24031316-016A	RBH-70	NELAP		1.0	2.3	µg/L	1	03/26/2024 23:29	03/15/2024 5:54
24031316-017A	RBH-71	NELAP		1.0	2.7	µg/L	1	03/26/2024 23:33	03/15/2024 5:55
24031316-018A	RBH-72	NELAP		1.0	1.4	µg/L	1	03/26/2024 23:37	03/15/2024 5:57
24031316-019A	RBH-73	NELAP		1.0	35.6	µg/L	5	03/27/2024 14:07	03/15/2024 5:57
24031316-020A	RBH-74	NELAP		1.0	2.8	µg/L	5	03/27/2024 14:32	03/15/2024 5:59
24031316-021A	RBH-75	NELAP		1.0	30.0	µg/L	5	03/27/2024 14:12	03/15/2024 5:59
24031316-022A	RBH-76	NELAP		1.0	1.3	µg/L	1	03/26/2024 23:48	03/15/2024 6:02
24031316-023A	RBH-77	NELAP		1.0	< 1.0	µg/L	1	03/26/2024 23:51	03/15/2024 6:03
24031316-024A	RBH-78	NELAP		1.0	< 1.0	µg/L	1	03/26/2024 23:55	03/15/2024 6:04
24031316-025A	RBH-79	NELAP		1.0	3.1	µg/L	1	03/26/2024 23:59	03/15/2024 6:07
24031316-026A	RBH-80	NELAP		1.0	2.5	µg/L	5	03/27/2024 14:17	03/15/2024 6:07
24031316-027A	RBH-81	NELAP		1.0	2.8	µg/L	5	03/27/2024 14:22	03/15/2024 6:07
24031316-028A	RBH-82	NELAP		1.0	< 1.0	µg/L	1	03/27/2024 0:02	03/15/2024 6:10
24031316-029A	RBH-83	NELAP		1.0	1.2	µg/L	1	03/27/2024 0:24	03/15/2024 6:10
24031316-030A	RBH-84	NELAP		1.0	5.4	µg/L	5	03/27/2024 14:27	03/15/2024 6:11
24031316-031A	RBH-85	NELAP		1.0	< 1.0	µg/L	1	03/27/2024 0:28	03/15/2024 6:14
24031316-032A	RBH-86	NELAP		1.0	< 1.0	µg/L	1	03/25/2024 18:29	03/15/2024 6:16
24031316-033A	RBH-87	NELAP		1.0	< 1.0	µg/L	1	03/25/2024 18:34	03/15/2024 6:16
24031316-034A	RBH-88	NELAP		1.0	< 1.0	µg/L	1	03/25/2024 18:38	03/15/2024 6:19
24031316-035A	RBH-89	NELAP		1.0	< 1.0	µg/L	1	03/25/2024 19:08	03/15/2024 6:19
24031316-036A	RBH-90	NELAP		1.0	< 1.0	µg/L	1	03/25/2024 18:42	03/15/2024 6:19
24031316-037A	RBH-91	NELAP		1.0	< 1.0	µg/L	1	03/25/2024 19:13	03/15/2024 6:21
24031316-038A	RBH-92	NELAP		1.0	< 1.0	µg/L	1	03/25/2024 19:17	03/15/2024 6:21
24031316-039A	RBH-93	NELAP		1.0	1.3	µg/L	1	03/25/2024 19:21	03/15/2024 6:23
24031316-040A	RBH-94	NELAP		1.0	< 1.0	µg/L	1	03/25/2024 19:25	03/15/2024 6:25
24031316-041A	RBH-95	NELAP		1.0	< 1.0	µg/L	1	03/25/2024 19:30	03/15/2024 6:25
24031316-042A	RBH-96	NELAP		1.0	< 1.0	µg/L	1	03/25/2024 19:34	03/15/2024 6:26
24031316-043A	RBH-97	NELAP		1.0	< 1.0	µg/L	1	03/25/2024 19:38	03/15/2024 6:28
24031316-044A	RBH-98	NELAP		1.0	< 1.0	µg/L	1	03/25/2024 19:43	03/15/2024 6:28
24031316-045A	RBH-99	NELAP		1.0	1.3	µg/L	1	03/25/2024 19:47	03/15/2024 6:34
24031316-046A	RBH-100	NELAP		1.0	12.6	µg/L	1	03/25/2024 20:04	03/15/2024 6:35
24031316-047A	RBH-101	NELAP		1.0	< 1.0	µg/L	1	03/25/2024 20:09	03/15/2024 6:35
24031316-048A	RBH-102	NELAP		1.0	< 1.0	µg/L	1	03/25/2024 20:13	03/15/2024 5:42



Laboratory Results

<http://www.teklabinc.com/>

Client: Geotechnology, Inc.

Work Order: 24031316

Client Project: J044517.01

Report Date: 02-Apr-24

Matrix: DRINKING WATER

Sample ID	Client Sample ID	Certification	Qual	RL	Result	Units	DF	Date Analyzed	Date Collected
EPA 600 4.1.4, 200.8 R5.4, METALS BY ICPMS (TOTAL)									

Client: Geotechnology, Inc.

Work Order: 24031316

Client Project: J044517.01

Report Date: 02-Apr-24

Carrier: Employee

Received By: LEH

Completed by:

On:

18-Mar-24

Amber Dilallo

Reviewed by:

On:

18-Mar-24

Ellie Hopkins

Pages to follow:

Chain of custody

5

Extra pages included

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 must be detailed below or on the COC.

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

pg. 7 of 11

Work order # 24031316

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	Phone:	(314) 997-7440
E-Mail:	blohrum@teamues.com	Fax:	

Samples on: ☐ ICE ☐ BLUE ICE ☒ NO ICE NA °C LTG# _____
Preserved in: ☒ LAB ☐ FIELD FOR LAB USE ONLY
Lab Notes _____

Client Comments:

TEKLAB
Courier

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No

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

Project Name/Number		Sample Collector's Name		MATRIX		INDICATE ANALYSIS REQUESTED																	
J044517.01		Brad Lohrum																					
Results Requested		Billing Instructions		# and Type of Containers								Drinking Water		Soil		Sludge		Special Waste		Groundwater		DW - Lead E200.8	
<input checked="" type="checkbox"/> Standard <input type="checkbox"/> 1-2 Day (100% Surcharge) <input type="checkbox"/> Other _____ <input type="checkbox"/> 3 Day (50% Surcharge)																							
Lab Use Only	Sample Identification	Date/Time Sampled	UNPRES	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	OTHER	Aqueous	Drinking Water	Soil	Sludge	Special Waste	Groundwater	DW - Lead E200.8						
24031316	RBH-55	3/15/24 5:33	1									X					X						
002	56		1									X					X						
003	57		1									X					X						
004	58		1									X					X						
005	59	5:35	1									X					X						
006	60	5:37	1									X					X						
007	61		1									X					X						
008	62	5:38	1									X					X						
009	63	5:42	1									X					X						
010	64		1									X					X						
Relinquished By		Date/Time		Received By								Date/Time											
Brad Lohrum		3/15/24 1214		John R. Weller								3/18/24 1214											
John R. Weller		3/18/24 1352		Brad Lohrum								3/18/24 1352											

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

BottleOrder: 80481



pg. 8 of 11 Work order # 24031316

Client:	Geotechnology, LLC		
Address:	11816 Lackland Road		
City / State / Zip	St. Louis, MO 63146		
Contact:	Brad Lohrum	Phone:	(314) 997-7440
E-Mail:	blohrum@teamues.com	Fax:	

FOR LAB USE ONLY

Client Comments:

Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☐ Yes ☒ No

[illegible]

BottleOrder: 80481



pg. 9 of 11 Work order # 24031316

Client:	Geotechnology, LLC		
Address:	11816 Lackland Road		
City / State / Zip	St. Louis, MO 63146		
Contact:	Brad Lohrum	Phone:	(314) 997-7440
E-Mail:	blohrum@teamues.com	Fax:	

Preserved in: ☐ LAB ☐ FIELD FOR LAB USE ONLY

Client Comments:

Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☐ Yes ☒ No

[illegible]

pg. 10 of 10 Work order # 24031316

Client:	Geotechnology, LLC		
Address:	11816 Lackland Road		
City / State / Zip	St. Louis, MO 63146		
Contact:	Brad Lohrum	Phone:	(314) 997-7440
E-Mail:	blohrum@teamues.com	Fax:	

FOR LAB USE ONLY

Client Comments:

Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☐ Yes ☒ No

Project Name/Number		Sample Collector's Name		MATRIX		INDICATE ANALYSIS REQUESTED																															
J044517.01		Brad Lohrum																																			
Results Requested		Billing Instructions		# and Type of Containers								Drinking Water		Soil		Sludge		Special Waste		Groundwater		DW - Lead E200.8															
<input checked="" type="checkbox"/> Standard <input type="checkbox"/> 1-2 Day (100% Surcharge) <input type="checkbox"/> Other _____ <input type="checkbox"/> 3 Day (50% Surcharge)																																					
Lab Use Only		Sample Identification		Date/Time Sampled		UNPRES	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	OTHER	Aqueous	Drinking Water	Soil	Sludge	Special Waste	Groundwater	DW - Lead E200.8																	
24031316		RBH-85		3/15/24 6:14		1								X	X					X																	
032		86		6:16		1								X	X					X																	
033		87		6:16		1								X	X					X																	
034		88		6:19		1								X	X					X																	
035		89		1		1								X	X					X																	
036		90		1		1								X	X					X																	
037		91		6:21		1								X	X					X																	
038		92		+		1								X	X					X																	
039		93		6:23		1								X	X					X																	
040		94		6:25		1								X	X					X																	
Relinquished By				Date/Time				Received By				Date/Time																									
Brad Lohrum				3/15/24 1214				John D. Lohrum				3/18/24 1214																									
John D. Lohrum				3/18/24 1352				John D. Lohrum				3/18/24 1352																									

BottleOrder: 80481



CHAIN OF CUSTODY

pg. 11 of 11 Work order # 24631316

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 Phone: (314) 997-7440 E-Mail: blohrum@teamues.com Fax:	Samples on: <input checked="" type="checkbox"/> ICE <input type="checkbox"/> BLUE ICE <input type="checkbox"/> NO ICE °C LTG# Preserved in: <input checked="" type="checkbox"/> LAB <input type="checkbox"/> FIELD FOR LAB USE ONLY Lab Notes Client Comments:
--	--

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No
 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

Project Name/Number		Sample Collector's Name		MATRIX		INDICATE ANALYSIS REQUESTED																					
J044517.01		Brad Lohrum																									
Results Requested		Billing Instructions		# and Type of Containers										Aqueous		Drinking Water		Soil		Sludge		Special Waste		Groundwater		DW - Lead E200.8	
<input checked="" type="checkbox"/> Standard <input type="checkbox"/> 1-2 Day (100% Surcharge) <input type="checkbox"/> Other <input type="checkbox"/> 3 Day (50% Surcharge)				UNPRES	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	OTHER																
Lab Use Only	Sample Identification	Date/Time Sampled																									
24031316	RBH-95	3/15/24 6:25	1																								
042	96	6:26	1																								
043	97	6:28	1																								
044	98	+	1																								
045	99	6:34	1																								
046	100	6:35	1																								
047	101	+	1																								
048	102	5:42	1																								
			1																								
			1																								

Relinquished By		Date/Time	Received By		Date/Time
Brad Lohrum		3/15/24 1214	John D. Brown		3/19/24 1214
John D. Brown		3/18/24 1352	Brad Lohrum		

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



July 11, 2024

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



Illinois	100226
Illinois	1004652024-2
Kansas	E-10374
Louisiana	05002
Louisiana	05003
Oklahoma	9978

RE: J044517.01

WorkOrder: 24062353

Dear Brad Lohrum:

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

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

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

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

Sincerely,



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



Report Contents

<http://www.teklabinc.com/>

Client: Geotechnology, Inc.

Work Order: 24062353

Client Project: J044517.01

Report Date: 11-Jul-24

This reporting package includes the following:

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

Client: Geotechnology, Inc.

Work Order: 24062353

Client Project: J044517.01

Report Date: 11-Jul-24

Abbr Definition

* Analytes on report marked with an asterisk are not NELAP accredited

CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.

CRQL A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.

DF Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.

DNI Did not ignite

DUP Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.

ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.

IDPH IL Dept. of Public Health

LCS Laboratory control sample is a sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.

LCSD Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).

MBLK Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.

MDL "The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."

MS Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).

MSD Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).

MW Molecular weight

NC Data is not acceptable for compliance purposes

ND Not Detected at the Reporting Limit

NELAP NELAP Accredited

PQL Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.

RL The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.

RPD Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).

SPK The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.

Surr Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.

TIC Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"

TNTC Too numerous to count (> 200 CFU)

Client: Geotechnology, Inc.

Work Order: 24062353

Client Project: J044517.01

Report Date: 11-Jul-24

Qualifiers

- | | |
|---|--|
| # - Unknown hydrocarbon | B - Analyte detected in associated Method Blank |
| C - RL shown is a Client Requested Quantitation Limit | E - Value above quantitation range |
| H - Holding times exceeded | I - Associated internal standard was outside method criteria |
| J - Analyte detected below quantitation limits | M - Manual Integration used to determine area response |
| ND - Not Detected at the Reporting Limit | R - RPD outside accepted recovery limits |
| S - Spike Recovery outside recovery limits | T - TIC(Tentatively identified compound) |
| X - Value exceeds Maximum Contaminant Level | |



Case Narrative

<http://www.teklabinc.com/>

Client: Geotechnology, Inc.

Work Order: 24062353

Client Project: J044517.01

Report Date: 11-Jul-24

Cooler Receipt Temp: NA °C

Locations

Collinsville

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email jhriley@teklabinc.com

Collinsville Air

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email EHurley@teklabinc.com

Springfield

Address 3920 Pintail Dr
Springfield, IL 62711-9415
Phone (217) 698-1004
Fax (217) 698-1005
Email KKlostermann@teklabinc.com

Chicago

Address 1319 Butterfield Rd.
Downers Grove, IL 60515
Phone (630) 324-6855
Fax
Email arenner@teklabinc.com

Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
Email jhriley@teklabinc.com

Client: Geotechnology, Inc.**Work Order:** 24062353**Client Project:** J044517.01**Report Date:** 11-Jul-24

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



Laboratory Results

<http://www.teklabinc.com/>

Client: Geotechnology, Inc.

Work Order: 24062353

Client Project: J044517.01

Report Date: 11-Jul-24

Matrix: DRINKING WATER

Sample ID	Client Sample ID	Certification	Qual	RL	Result	Units	DF	Date Analyzed	Date Collected
EPA 600 4.1.4, 200.8 R5.4, METALS BY ICPMS (TOTAL)									
Lead									
24062353-001A	SMS-01-2	NELAP		1.0	4.6	µg/L	1	07/03/2024 17:08	06/26/2024 15:07
24062353-002A	SMS-02-2	NELAP		1.0	3.5	µg/L	1	07/03/2024 17:23	06/26/2024 15:08
24062353-003A	SMS-58-2	NELAP		1.0	7.5	µg/L	1	07/03/2024 17:26	06/26/2024 15:11
24062353-004A	SMS-59-2	NELAP		1.0	3.3	µg/L	1	07/03/2024 17:30	06/26/2024 15:12
24062353-005A	SMS-60-2	NELAP		1.0	8.7	µg/L	1	07/03/2024 17:34	06/26/2024 15:13
24062353-006A	SMS-61-2	NELAP		1.0	6.9	µg/L	1	07/03/2024 17:37	06/26/2024 15:14
24062353-007A	SMS-62-2	NELAP		1.0	7.4	µg/L	1	07/08/2024 22:34	06/26/2024 15:15
24062353-008A	SMS-74-2	NELAP		1.0	1.9	µg/L	1	07/03/2024 17:52	06/26/2024 15:18
24062353-009A	PKE-66-2	NELAP		1.0	< 1.0	µg/L	1	07/03/2024 17:56	06/26/2024 15:52
24062353-010A	PKE-67-2	NELAP		1.0	< 1.0	µg/L	1	07/03/2024 18:10	06/26/2024 15:52
24062353-011A	PKE-70-2	NELAP		1.0	2.2	µg/L	1	07/03/2024 18:14	06/26/2024 15:55
24062353-012A	RBE-08-2	NELAP		1.0	1.3	µg/L	1	07/03/2024 18:18	06/26/2024 16:06
24062353-013A	RBE-11-2	NELAP		1.0	1.6	µg/L	1	07/03/2024 18:21	06/26/2024 16:07
24062353-014A	FES-52-2	NELAP		1.0	< 1.0	µg/L	1	07/03/2024 18:25	06/26/2024 16:16
24062353-015A	BRH-82	NELAP		1.0	< 1.0	µg/L	1	07/03/2024 18:29	06/26/2024 16:33
24062353-016A	BRH-83	NELAP		1.0	< 1.0	µg/L	1	07/03/2024 18:33	06/26/2024 16:36
24062353-017A	MCE-09-2	NELAP		1.0	1.3	µg/L	1	07/08/2024 22:45	06/26/2024 16:51
24062353-018A	MCE-87	NELAP		1.0	< 1.0	µg/L	1	07/03/2024 18:58	06/26/2024 16:54
24062353-019A	MCE-88	NELAP		1.0	< 1.0	µg/L	1	07/03/2024 19:02	06/26/2024 16:54
24062353-020A	RBH-30-2	NELAP		1.0	12.4	µg/L	1	07/03/2024 19:05	06/26/2024 17:17
24062353-021A	RBH-103	NELAP		1.0	1.9	µg/L	1	07/03/2024 19:09	06/26/2024 17:21
24062353-022A	RBH-104	NELAP		1.0	3.6	µg/L	1	07/03/2024 19:13	06/26/2024 17:21
24062353-023A	RBH-105	NELAP		1.0	< 1.0	µg/L	1	07/03/2024 19:16	06/26/2024 17:22
24062353-024A	RBH-106	NELAP		1.0	< 1.0	µg/L	1	07/03/2024 19:20	06/26/2024 17:22
24062353-025A	NHE-10-2	NELAP		1.0	< 1.0	µg/L	1	07/03/2024 19:24	06/26/2024 17:44
24062353-026A	NHE-16-2	NELAP		1.0	3.7	µg/L	1	07/03/2024 19:28	06/26/2024 17:46
24062353-027A	CRE-70	NELAP		1.0	< 1.0	µg/L	1	07/05/2024 12:13	06/26/2024 18:01
24062353-028A	CRE-71	NELAP		1.0	< 1.0	µg/L	1	07/03/2024 19:53	06/26/2024 18:03
24062353-029A	RAC-08-2	NELAP		1.0	13.2	µg/L	1	07/03/2024 19:57	06/26/2024 18:20
24062353-030A	SBE-02-2	NELAP		1.0	4.6	µg/L	1	07/03/2024 20:01	06/26/2024 18:35
24062353-031A	LSE-06-2	NELAP		1.0	2.1	µg/L	1	07/03/2024 20:04	06/26/2024 18:54
24062353-032A	JMS-11-2	NELAP		1.0	< 1.0	µg/L	1	07/03/2024 20:08	06/26/2024 19:07
24062353-033A	EF5-01-2	NELAP		1.0	6.4	µg/L	1	07/03/2024 20:12	06/26/2024 19:19
24062353-034A	HHS-18-2	NELAP		1.0	2.7	µg/L	1	07/03/2024 20:15	06/26/2024 19:32
24062353-035A	OMS-08-2	NELAP		1.0	< 1.0	µg/L	1	07/05/2024 12:35	06/26/2024 19:55
24062353-036A	OMS-10-2	NELAP		1.0	< 1.0	µg/L	1	07/03/2024 20:41	06/26/2024 19:56
24062353-037A	OMS-12-2	NELAP		1.0	1.1	µg/L	1	07/03/2024 20:45	06/26/2024 19:57
24062353-038A	OMS-17-2	NELAP		1.0	< 1.0	µg/L	1	07/03/2024 20:48	06/26/2024 20:00
24062353-039A	OMS-20-2	NELAP		1.0	< 1.0	µg/L	1	07/03/2024 20:52	06/26/2024 20:07
24062353-040A	OMS-39	NELAP		1.0	< 1.0	µg/L	1	07/03/2024 20:56	06/26/2024 20:10
24062353-041A	OMS-40	NELAP		1.0	< 1.0	µg/L	1	07/03/2024 20:59	06/26/2024 20:10
24062353-042A	OMS-23-2	NELAP		1.0	< 1.0	µg/L	1	07/05/2024 12:46	06/26/2024 20:11
24062353-043A	OMS-24-2	NELAP		1.0	< 1.0	µg/L	1	07/03/2024 21:25	06/26/2024 20:11
24062353-044A	OMS-29-2	NELAP		1.0	5.6	µg/L	1	07/03/2024 21:29	06/26/2024 20:13
24062353-045A	EBE-35-3	NELAP		1.0	17.7	µg/L	1	07/03/2024 21:32	06/26/2024 20:39
24062353-046A	EBE-63	NELAP		1.0	< 1.0	µg/L	1	07/03/2024 21:36	06/26/2024 20:43
24062353-047A	BHS-83-2	NELAP		1.0	17.6	µg/L	1	07/08/2024 23:07	06/26/2024 21:10
24062353-048A	BHS-122-2	NELAP		1.0	4.3	µg/L	1	07/03/2024 21:51	06/26/2024 21:20



Laboratory Results

<http://www.teklabinc.com/>

Client: Geotechnology, Inc.

Work Order: 24062353

Client Project: J044517.01

Report Date: 11-Jul-24

Matrix: DRINKING WATER

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

Work Order: 24062353

Client Project: J044517.01

Report Date: 11-Jul-24

Carrier: Craig McKinney

Received By: NR

Completed by:

On:

28-Jun-24

Paul Schultz

Reviewed by:

On:

28-Jun-24

Ellie Hopkins

Pages to follow:

Chain of custody

6

Extra pages included

0

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Temp °C

NA

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 must be detailed below or on the COC.

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

CHAIN OF CUSTODY

pg. 1 of 6 Work order # 24062359

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 Phone: (314) 997-7440 E-Mail: blohrum@teamues.com Fax:	Samples on: <input checked="" type="checkbox"/> ICE <input type="checkbox"/> BLUE ICE <input checked="" type="checkbox"/> NO ICE <u>NA</u> °C LTG# Preserved in: <input type="checkbox"/> LAB <input type="checkbox"/> FIELD FOR LAB USE ONLY Lab Notes Client Comments:
--	--

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No
 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

**TEKLAB
Courier**

Project Name/Number		Sample Collector's Name		MATRIX		INDICATE ANALYSIS REQUESTED																												
J044517.01		Brad Lohrum																																
Results Requested		Billing Instructions	# and Type of Containers								Aqueous	Drinking Water	Soil	Sludge	Special Waste	Groundwater	DW - Lead E200.8																	
<input checked="" type="checkbox"/> Standard <input type="checkbox"/> 1-2 Day (100% Surcharge) <input type="checkbox"/> Other <input type="checkbox"/> 3 Day (50% Surcharge)			UNPRES	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	OTHER																								
Lab Use Only	Sample Identification	Date/Time Sampled																																
24062359-001	SMS-01-2	6/26/24 3:07	1															X	X															
-002	02-2	3:08	1															X	X															
-003	58-2	3:11	1															X	X															
-004	59-2	3:12	1															X	X															
-005	60-2	3:13	1															X	X															
-006	61-2	3:14	1															X	X															
-007	62-2	3:15	1															X	X															
-008	74-2	3:18	1															X	X															
-009	PKE-66-2	3:52	1															X	X															
-010	PKE-67-2	3:52	1															X	X															

Relinquished By	Date/Time	Received By	Date/Time
<i>Brad Lohrum</i>	6/27/24 17:30	<i>Mike Reed</i>	6/28/24 1400
	6/28/24 1550		6/28/24 1550

CHAIN OF CUSTODY

pg. 2 of 6 Work order # 24062553

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 Phone: (314) 997-7440 E-Mail: blohrum@teamues.com Fax:	Samples on: <input checked="" type="checkbox"/> ICE <input type="checkbox"/> BLUE ICE <input type="checkbox"/> NO ICE °C LTG# Preserved in: <input type="checkbox"/> LAB <input type="checkbox"/> FIELD FOR LAB USE ONLY Lab Notes Client Comments:
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Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No
 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

Project Name/Number		Sample Collector's Name		MATRIX		INDICATE ANALYSIS REQUESTED																			
J044517.01		Brad Lohrum																							
Results Requested		Billing Instructions		# and Type of Containers										Drinking Water		Soil		Sludge		Special Waste		Groundwater		DW - Lead E200.8	
<input checked="" type="checkbox"/> Standard <input type="checkbox"/> 1-2 Day (100% Surcharge) <input type="checkbox"/> Other <input type="checkbox"/> 3 Day (50% Surcharge)				UNPRES	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	OTHER	Aqueous													
Lab Use Only	Sample Identification	Date/Time Sampled																							
24062553-011	PKE-70-2	6/26/24 3:55	1										X								X				
-012	RBE-68-2	4:06	1										X								X				
-013	RBE-11-2	4:07	1										X								X				
-014	FES-52-2	4:16	1										X								X				
-015	BRH-82	4:33	1										X								X				
-016	BRH-83	4:36	1										X								X				
-017	MCE-09-2	4:51	1										X								X				
-018	MCE-87	4:54	1										X								X				
-019	MCE-88	+	1										X								X				
-020	RBH-30-2	5:17	1										X								X				

Relinquished By		Date/Time	Received By		Date/Time
Brad Lohrum		6/27/24 17:30	Nick Reed		6/28/24 1400
		6/28/24 1350			6/28/24 1550

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.

Bottle Order: 80481



pg. 3 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		Samples on:	<input type="checkbox"/> ICE	<input type="checkbox"/> BLUE ICE	<input type="checkbox"/> NO ICE	_____ °C	LTG#	_____
Address:	11816 Lackland Road		Preserved in:	<input type="checkbox"/> LAB	<input type="checkbox"/> FIELD	<u>FOR LAB USE ONLY</u>			
City / State / Zip	St. Louis, MO 63146		Lab Notes						
Contact:	Brad Lohrum	Phone:	(314) 997-7440						
E-Mail:	blohrum@teamues.com	Fax:							
			Client Comments:						

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No

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

[illegible]

Relinquished By	Date/Time	Received By	Date/Time
<i>Paul [Signature]</i>	6/27/24 17:30	<i>[Signature]</i>	6/28/24 12:00
	6/28/24 1550	<i>Trish Reed</i>	6/28/24 1550

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. 4 of 6 Work order # 24062353

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

Client: <u>Geotechnology, LLC</u> Address: <u>11816 Lackland Road</u> City / State / Zip <u>St. Louis, MO 63146</u> Contact: <u>Brad Lohrum</u> E-Mail: <u>blohrum@teamues.com</u>	Phone: <u>(314) 997-7440</u> Fax: _____	Samples on: <input checked="" type="checkbox"/> ICE <input checked="" type="checkbox"/> BLUE ICE <input checked="" type="checkbox"/> NO ICE _____ °C LTC# _____ Preserved in: <input checked="" type="checkbox"/> LAB <input checked="" type="checkbox"/> FIELD <u>FOR LAB USE ONLY</u> Lab Notes 	Client Comments:
---	--	---	---------------------------------

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No

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

[illegible]

pg. 5 of 6 Work order # 24062353

Client:	Geotechnology, LLC		Samples on:	<input type="checkbox"/> ICE	<input type="checkbox"/> BLUE ICE	<input type="checkbox"/> NO ICE	_____ °C	LTG# _____
Address:	11816 Lackland Road		Preserved in:	<input type="checkbox"/> LAB	<input type="checkbox"/> FIELD	<u>FOR LAB USE ONLY</u>		
City / State / Zip	St. Louis, MO 63146		Lab Notes					
Contact:	Brad Lohrum	Phone:	(314) 997-7440					
E-Mail:	blohrum@teamues.com	Fax:						
			Client Comments:					

[illegible]

Relinquished By	Date/Time	Received By	Date/Time
<i>[Signature]</i>	6/27/24 17:30	<i>[Signature]</i>	6/28/24 1400
	6/28/24 1558	Trish Reed	6/28/24 1550



pg. 6 of 6

Work order # 2466 2353

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

Client: <u>Geotechnology, LLC</u>		Samples on: <input type="checkbox"/> ICE <input type="checkbox"/> BLUE ICE <input type="checkbox"/> NO ICE <u> </u> °C LTG# <u> </u>	
Address: <u>11816 Lackland Road</u>		Preserved in: <input type="checkbox"/> LAB <input type="checkbox"/> FIELD <u>FOR LAB USE ONLY</u>	
City / State / Zip <u>St. Louis, MO 63146</u>		Lab Notes	
Contact: <u>Brad Lohrum</u>	Phone: <u>(314) 997-7440</u>	Client Comments:	
E-Mail: <u>blohrum@teamues.com</u>	Fax: <u> </u>		

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No

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

[illegible]

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.

Bottle Order: 80481





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.