

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





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

December 22, 2024

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

Re: Water Sampling and Reporting Services

Columbia Public Schools 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

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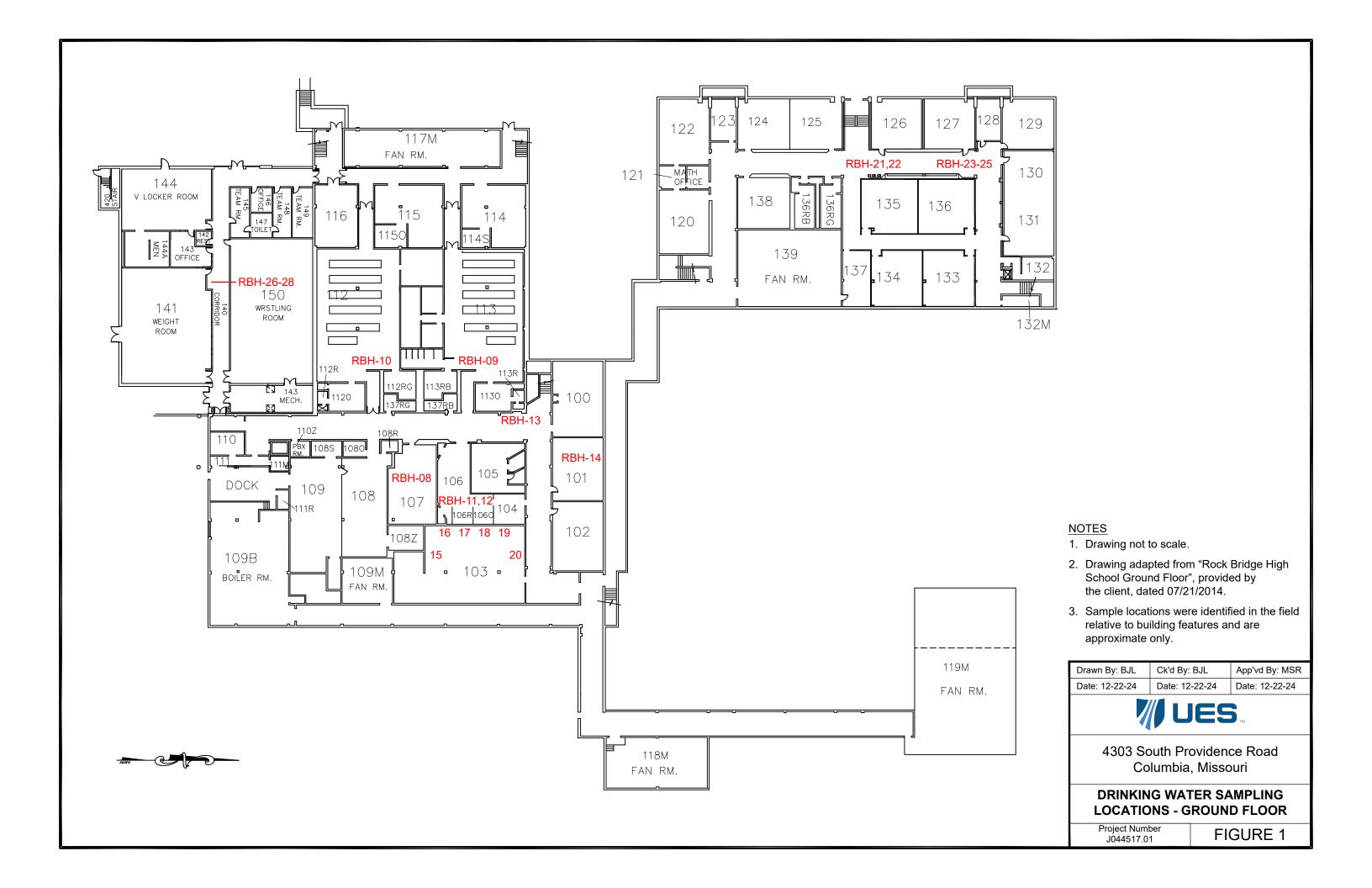
We appreciate the opportunity to provide our professional environmental consulting services to Columbia Public Schools on this project. If you have any questions or comments, please contact me at (314) 997-7440.

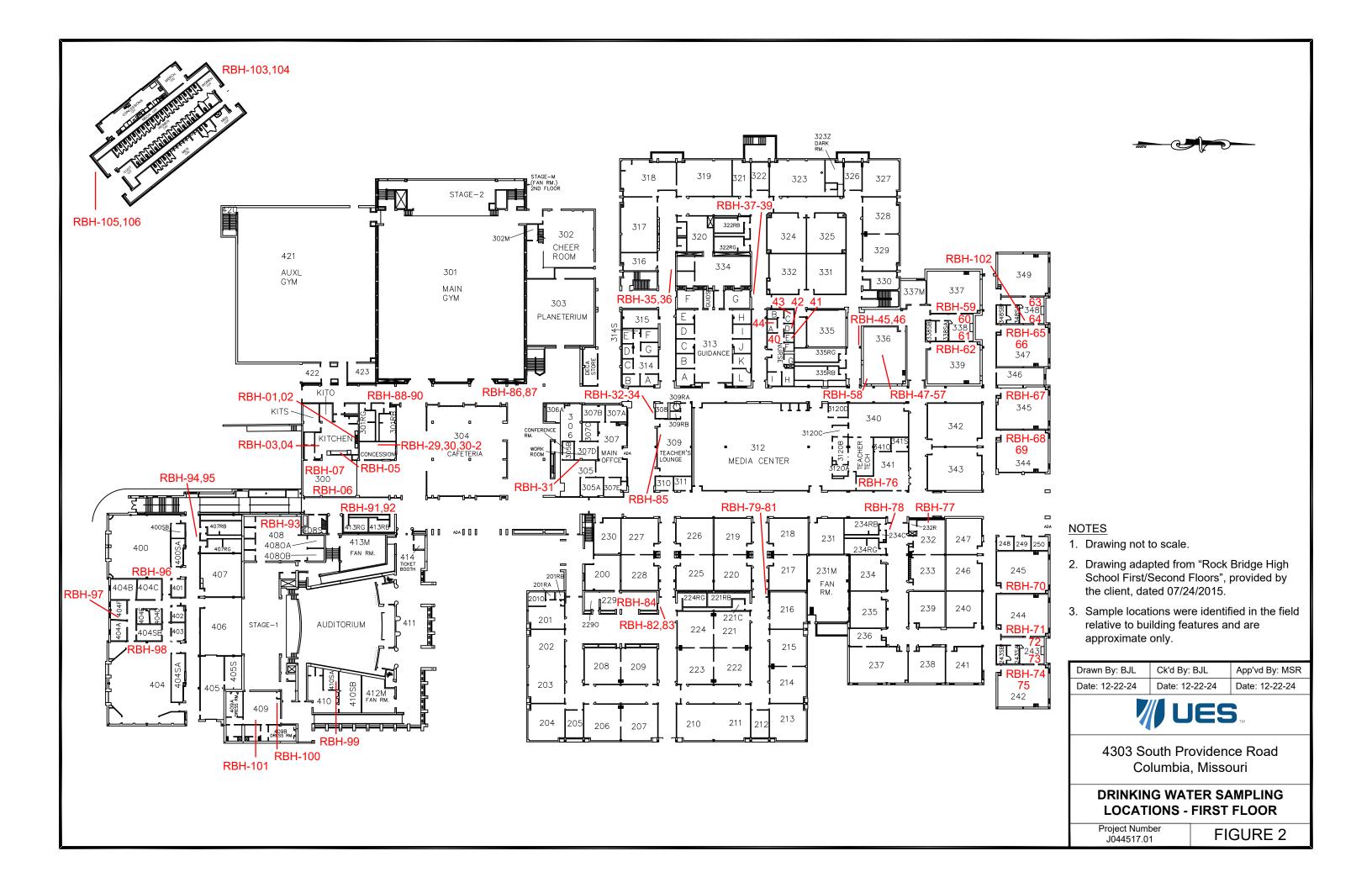
Very truly yours,

UES

Bradley J. Lohrum Project Manager

BJL/MSR:bjl/jsj







APPENDIX A

CERTIFICATE AND LICENSE OF ENVIRONMENTAL PROFESSIONAL

PUBLIC HEALTH & SOCIAL JUSTICE

SAINT LOUIS UNIVERSITY

CENTER FOR ENVIRONMENTAL EDUCATION AND TRAINING

verifies that

Bradley Lohrum

817 S Sappington Road, Crestwood, MO 63126

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

Lead Risk Assessor Refresher

St. Louis, MO

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

Examination Date: 12/12/2022

CEUs: 0.8

Christopher C. King PhD

Director, Center for Environmental Education and Training

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

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

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

STATE OF MISSOURI DEPARTMENT OF HEALTH AND SENIOR SERVICES

LEAD OCCUPATION LICENSE REGISTRATION

Issued to:

Bradley J. Lohrum

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

Lead Risk Assessor
Category of License

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

License Number: 230120-300006460

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

Davea I. Nichel

STATE OF MISSOURI DEPARTMENT OF HEALTH AND SENIOR SERVICES

Lead Abatement Contractor License

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

Issued to:

Geotechnology LLC (UES)

11816 Lackland Rd Suite 150 St. Louis, MO 63146

Issuance Date: 2/28/2024 Expiration Date: 2/28/2026

License Number: 240229-4652

Paula F. Nickelson Director

Davla J. Nichels

Department of Health and Senior Services

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



APPENDIX B

DRINKING WATER SAMPLING FORMS



Project Name: Columbia Public Schools Water

Sampling and Reporting Services

Building Name: 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	WF Hallway at Room 100 BJL - 3/14/24 - 20:14		BJL - 3/15/24 - 4:40	
RBH-14	S	S Room 101 BJL - 3/14/24 - 20:15		BJL - 3/15/24 - 4:41	
RBH-15	S	S Room 103 - Station 1 BJL - 3/14/24 - 20:1		BJL - 3/15/24 - 4:47	
RBH-16	S	Room 103 - Station 2 BJL - 3/14/2		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



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Address: 4303 South Providence Road

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	BF Hallway at Room 334 - Right BJL - 3/14/24 - 20:45		BJL - 3/15/24 - 5:16	
RBH-39	WF	WF Hallway at Room 334 - Right BJL - 3/14		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	S Nurse's Office - E BJL - 3/1		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 B=Bubbler FW=Filtered Water ICE=Ice Machine



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Sampling and Reporting Services

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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-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	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	

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Building Name: Rock Bridge High

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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	BF Hallway at Gym - South Left BJL - 3/14/24 -		BJL - 3/15/24 - 6:19	
RBH-89	WF	WF Hallway at Gym - South Left BJL - 3/14/24 - 21:4		BJL - 3/15/24 - 6:19	
RBH-90	WF	WF Hallway at Gym - South Right BJL - 3/14/24 - 21:		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



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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	e Type Location Flushed By - Date - Time		Sampled By - Date - Time	
RBH-101	WF	Room 409	BJL - 3/14/24 - 22:02	BJL - 3/15/24 - 6:35	
RBH-102	ICE	Room 348	N/A	BJL - 3/15/24 - 5:42	
RBH-103	WF	Exterior - North Left	BJL - 6/25/24 - 21:21	BJL - 6/26/24 - 5:21	
RBH-104	WF	Exterior - North Right	BJL - 6/25/24 - 21:21	BJL - 6/26/24 - 5:21	
RBH-105	WF	Exterior - South Left	BJL - 6/25/24 - 21:22	BJL - 6/26/24 - 5:22	
RBH-106	WF	Exterior - South Right	BJL - 6/25/24 - 21:22	BJL - 6/26/24 - 5:22	
RBH-30-2	S	Concession Stand - Right	BJL - 6/25/24 - 21:17	BJL - 6/26/24 - 5:17	



APPENDIX C

DRINKING WATER LABORATORY DATA SHEETS

100226

E-10374

05002

05003

9978

1004652024-2

Illinois

Illinois

Kansas

Louisiana

Louisiana

Oklahoma



April 02, 2024

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

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

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

Elizabeth a Hurley



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:

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Definitions

http://www.teklabinc.com/

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)



Definitions

http://www.teklabinc.com/

Client: Geotechnology, Inc. Work Order: 24031315

Client Project: J044517.01 Report Date: 02-Apr-24

Qualifiers

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

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



Case Narrative

http://www.teklabinc.com/

Work Order: 24031315

Client: Geotechnology, Inc. Client Project: J044517.01 Report Date: 02-Apr-24

Cooler Receipt Temp: N/A °C

Locations

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



Accreditations

http://www.teklabinc.com/

Client: Geotechnology, Inc. Work Order: 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	l RL	Result	Units	DF	Date Analyzed	Date Analyzed Date Collected	
EPA 600 4.1.4	EPA 600 4.1.4, 200.8 R5.4, METALS BY ICPMS (TOTAL)								
Lead									
24031315-001		NELAP	1.0	5.0	µg/L	1	03/28/2024 9:11	03/15/2024 3:43	
24031315-002	A BHS-123	NELAP	1.0	1.8	µg/L	1	03/27/2024 9:03	03/15/2024 3:43	
24031315-003		NELAP	1.0	2.1	µg/L	1	03/27/2024 9:33	03/15/2024 3:43	
24031315-004	A BHS-125	NELAP	1.0	6.7	µg/L	1	03/27/2024 9:37	03/15/2024 3:43	
24031315-005	A BHS-126	NELAP	1.0	5.2	µg/L	1	03/27/2024 9:41	03/15/2024 3:43	
24031315-006	A BHS-127	NELAP	1.0	< 1.0	µg/L	1	03/27/2024 9:46	03/15/2024 3:43	
24031315-007	A RBH-01	NELAP	1.0	2.7	μg/L	1	03/26/2024 15:15	03/15/2024 4:27	
24031315-008	A RBH-02	NELAP	1.0	1.5	μg/L	1	03/26/2024 15:20	03/15/2024 4:27	
24031315-009	A RBH-03	NELAP	1.0	2.3	μg/L	1	03/26/2024 15:24	03/15/2024 4:27	
24031315-010	A RBH-04	NELAP	1.0	2.1	μg/L	1	03/26/2024 15:28	03/15/2024 4:27	
24031315-011	A RBH-05	NELAP	1.0	3.1	μg/L	1	03/26/2024 15:33	03/15/2024 4:27	
24031315-012	A RBH-06	NELAP	1.0	4.9	μg/L	1	03/26/2024 15:37	03/15/2024 4:27	
24031315-013	A RBH-07	NELAP	1.0	< 1.0	μg/L	1	03/26/2024 15:41	03/15/2024 4:27	
24031315-014	A RBH-08	NELAP	1.0	1.9	μg/L	1	03/27/2024 9:50	03/15/2024 4:33	
24031315-015	A RBH-09	NELAP	1.0	< 1.0	μg/L	1	03/27/2024 9:54	03/15/2024 4:36	
24031315-016	A RBH-10	NELAP	1.0	< 1.0	μg/L	1	03/27/2024 9:59	03/15/2024 4:36	
24031315-017	A RBH-11	NELAP	1.0	< 1.0	μg/L	1	03/27/2024 10:37	03/15/2024 4:38	
24031315-018	A RBH-12	NELAP	1.0	< 1.0	μg/L	1	03/27/2024 10:42	03/15/2024 4:38	
24031315-019	A RBH-13	NELAP	1.0	< 1.0	μg/L	1	03/27/2024 10:46	03/15/2024 4:40	
24031315-020	A RBH-14	NELAP	1.0	13.1	μg/L	1	03/28/2024 7:28	03/15/2024 4:41	
24031315-021	A RBH-15	NELAP	1.0	61.0	μg/L	5	03/27/2024 15:07	03/15/2024 4:47	
24031315-022	A RBH-16	NELAP	1.0	9.5	μg/L	5	03/27/2024 15:12	03/15/2024 4:47	
24031315-023	A RBH-17	NELAP	1.0	13.3	μg/L	5	03/27/2024 15:17	03/15/2024 4:47	
24031315-024	A RBH-18	NELAP	1.0	19.4	μg/L	5	03/27/2024 16:46	03/15/2024 4:47	
24031315-025	A RBH-19	NELAP	1.0	4.4	μg/L	5	03/27/2024 15:22	03/15/2024 4:47	
24031315-026	A RBH-20	NELAP	1.0	17.1	μg/L	5	03/27/2024 15:27	03/15/2024 4:47	
24031315-027	A RBH-21	NELAP	1.0	1.6	μg/L	1	03/27/2024 10:50	03/15/2024 4:51	
24031315-028	A RBH-22	NELAP	1.0	2.3	μg/L	1	03/27/2024 10:54	03/15/2024 4:51	
24031315-029	A RBH-23	NELAP	1.0	2.5	μg/L	1	03/28/2024 7:45	03/15/2024 4:54	
24031315-030	A RBH-24	NELAP	1.0	1.4	μg/L	1	03/27/2024 10:59	03/15/2024 4:54	
24031315-031	A RBH-25	NELAP	1.0	1.4	μg/L	1	03/27/2024 11:03	03/15/2024 4:54	
24031315-032	A RBH-26	NELAP	1.0	< 1.0	μg/L	1	03/27/2024 11:50	03/15/2024 5:00	
24031315-033	A RBH-27	NELAP	1.0	< 1.0	μg/L	1	03/27/2024 11:55	03/15/2024 5:00	
24031315-034	A RBH-28	NELAP	1.0	< 1.0	μg/L	1	03/27/2024 11:59	03/15/2024 5:00	
24031315-035	A RBH-29	NELAP	1.0	2.5	μg/L	1	03/27/2024 12:03	03/15/2024 5:04	
24031315-036	A RBH-30	NELAP	1.0	5.1	μg/L	1	03/26/2024 18:05	03/15/2024 5:04	
24031315-037	A RBH-31	NELAP	1.0	< 1.0	μg/L	1	03/26/2024 18:09	03/15/2024 5:06	
24031315-038	A RBH-32	NELAP	1.0	< 1.0	μg/L	1	03/26/2024 18:13	03/15/2024 5:11	
24031315-039	A RBH-33	NELAP	1.0	< 1.0	μg/L	1	03/27/2024 12:07	03/15/2024 5:11	
24031315-040	A RBH-34	NELAP	1.0	< 1.0	μg/L	1	03/26/2024 18:18	03/15/2024 5:11	
24031315-041	A RBH-35	NELAP	1.0	4.9	μg/L	1	03/26/2024 18:22	03/15/2024 5:13	
24031315-042	A RBH-36	NELAP	1.0	3.3	μg/L	1	03/26/2024 18:26	03/15/2024 5:13	
24031315-043		NELAP	1.0	1.4	μg/L	1	03/26/2024 18:31	03/15/2024 5:16	
24031315-044		NELAP	1.0	1.8	μg/L	1	03/26/2024 18:35	03/15/2024 5:16	
24031315-045		NELAP	1.0	1.7	μg/L	1	03/26/2024 18:39	03/15/2024 5:16	
24031315-046		NELAP	1.0	< 1.0	μg/L	1	03/27/2024 12:51	03/15/2024 5:20	
24031315-047		NELAP	1.0	1.2	μg/L	1	03/27/2024 12:56	03/15/2024 5:20	
24031315-048		NELAP	1.0	1.5	μg/L	1	03/27/2024 13:00	03/15/2024 5:20	
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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	4, 200.8 R5.4, META	LS BY ICPMS (TOTAL)						
Lead								
24031315-049	A RBH-43	NELAP	1.0	1.4	μg/L	1	03/27/2024 13:04	03/15/2024 5:20
24031315-050	A RBH-44	NELAP	1.0	2.6	μg/L	1	03/27/2024 13:08	03/15/2024 5:20
24031315-051	A RBH-45	NELAP	1.0	< 1.0	μg/L	1	03/27/2024 13:21	03/15/2024 5:23
24031315-052	A RBH-46	NELAP	1.0	< 1.0	μg/L	1	03/26/2024 22:23	03/15/2024 5:23
24031315-053	A RBH-47	NELAP	1.0	90.4	μg/L	5	03/27/2024 15:32	03/15/2024 5:33
24031315-054	A RBH-48	NELAP	1.0	92.1	μg/L	5	03/27/2024 15:36	03/15/2024 5:33
24031315-055	A RBH-49	NELAP	1.0	122	μg/L	5	03/27/2024 16:11	03/15/2024 5:33
24031315-056	A RBH-50	NELAP	1.0	90.0	μg/L	5	03/27/2024 16:16	03/15/2024 5:33
24031315-057	A RBH-51	NELAP	1.0	201	μg/L	5	03/27/2024 16:21	03/15/2024 5:33
24031315-058	A RBH-52	NELAP	1.0	294	μg/L	5	03/27/2024 16:26	03/15/2024 5:33
24031315-059	A RBH-53	NELAP	1.0	77.0	μg/L	5	03/27/2024 17:35	03/15/2024 5:33
24031315-060	A RBH-54	NELAP	1.0	188	μg/L	5	03/27/2024 16:31	03/15/2024 5:33



Client: Geotechnology, Inc.

Receiving Check List

http://www.teklabinc.com/

Work Order: 24031315

Client Project: J044517.01 Report Date: 02-Apr-24 Carrier: Employee Received By: LEH Completed by: Ontoer Oblacce Reviewed by: On: On: 18-Mar-24 18-Mar-24 Amber Dilallo Ellie Hopkins Extra pages included 0 Pages to follow: Chain of custody Shipping container/cooler in good condition? Yes 🗸 No 🗔 Not Present Temp °C N/A Type of thermal preservation? **~** Ice _ Blue Ice None Dry Ice Chain of custody present? **~** No L Yes Chain of custody signed when relinquished and received? **~** Yes No L **~** Chain of custody agrees with sample labels? No 🗀 Yes **~** No 🗌 Samples in proper container/bottle? Yes **V** Sample containers intact? Yes No Sufficient sample volume for indicated test? Yes **~** No **~** No 🗌 All samples received within holding time? Yes NA 🗸 Field Lab 🗌 Reported field parameters measured: Yes 🗸 No 🗌 Container/Temp Blank temperature in compliance? When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected. Water - at least one vial per sample has zero headspace? Yes 🗌 No 🗀 No VOA vials ✓ No TOX containers Water - TOX containers have zero headspace? Yes No 🗌 Yes 🗸 No 🗌 Water - pH acceptable upon receipt? NA 🗸 NPDES/CWA TCN interferences checked/treated in the field? Yes No 🗀

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

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

CHAIN OF CUSTODY pg. of Work order # 24831315

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

Client: Address: City / State	Geotechnology, 11816 Lackland / Zip St. Louis, MO 63 Brad Lohrum	Road	. (314) 9	97-7440		red in:X	ICE BLUE ICE LAB FIELD	(NO ICE <u>NA</u> °C LTG# FOR LAB USE ONLY
Are these sample: Are there any requ	blohrum@teamues.com s known to be involved in its known to be hazardous?	Fax: itigation? If yes, a surcharge Yes No met on the requested analys	will apply	∏ Yes 🛣 No	Client C	omments	3:	COUNTY
Project	Name/Number	Sample Co	llector's Na	ame	MAT	RIX		ATE ANALYSIS REQUESTED
evere to a Mile of	14517.01	Brad L			Drir	Spe	DW -	
X Standard	s Requested 1-2 Day (100% Surcharge) 3 Day (50% Surcharge)	Billing Instructions	# and Type	OTHER NaHSO4	Soil Drinking Water Aqueous	Groundwater Special Waste	Lead E200.8	
Lab Use Only	Sample Identification	Date/Time Sampled	ES S	Z T 2 77	ter	te er	00.8	
2403/3/5	BHS - 12Z	3/15/24 3:43	1		X		X	
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003	124				X		X	
004	125		1		X		X	
005	126		1		X		X	
9010	127		1		X		X	
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Rych)	Country Country	3/15 3/18	124	1214	July Ja	D WAR		3/18/24 17214 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. 2 of 1 Work order # 2403/315

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

Client:	,	Geotechnology, L	LC											s	am	ple	es c	n:	羅	ICE	56	BLU	E ICE		NO I	CE	****			°C	L	TG#			
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City / State	/ Zip	St. Louis, MO 63	146											L	.ab	No	tes	i																	
Contact:	Brad L	ohrum			Phone	e:	(314	997	7-74	40		_																						
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The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions.

BottleOrder:

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

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CHAIN OF CUSTODY

pg. 4 of [\ Work order # 24631315

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

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CHAIN OF CUSTODY pg. 5 of 11 Work order # 24031315

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

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CHAIN OF CUSTODY

pg. 6 of 1 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 Contact: Brad Lohrum Phone: (314) 997-7440 E-Mail: Seetechnology, LLC Samples on: ICE BLUE ICE NO ICE OC Preserved in: LAB FIELD FOR LAB USE ONI Lab Notes Client Comments:	LTG#
Address: 11816 Lackland Road City / State / Zip St. Louis, MO 63146 Contact: Brad Lohrum Phone: (314) 997-7440 Preserved in: LAB FIELD FOR LAB USE ONL Lab Notes	<u>LY</u>
City / State / Zip St. Louis, MO 63146 Contact: Brad Lohrum Phone: (314) 997-7440 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 X 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 REQUEST	ED
J044517.01 Brad Lohrum 🖳 🐰 🔉 🗟 🔻	
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Results Requested Standard 1-2 Day (100% Surcharge) Billing Instructions # and Type of Containers Simple	
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The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions.

BottleOrder:

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Illinois

Illinois



April 02, 2024

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

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

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

Elizabeth a Hurley



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



Definitions

http://www.teklabinc.com/

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)



Definitions

http://www.teklabinc.com/

Client: Geotechnology, Inc. Work Order: 24031316

Client Project: J044517.01 Report Date: 02-Apr-24

Qualifiers

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

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



Case Narrative

http://www.teklabinc.com/

Work Order: 24031316

Report Date: 02-Apr-24

Client: Geotechnology, Inc.

Client Project: J044517.01

Cooler Receipt Temp: N/A °C

Locations

City
man Road
KS 66214
-1998
-1998
eklabinc.com



Accreditations

http://www.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

	Client Sample ID	Certification Qual	RL	Result	Units	DF	Date Analyzed	Date Collected
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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/

Date Analyzed Date Collected

Client: Geotechnology, Inc. **Work Order: 24031316**

Client Project: J044517.01

Report Date: 02-Apr-24 Matrix: DRINKING WATER

Result

Units

DF

RL

Sample ID Client Sample ID Certification Qual EPA 600 4.1.4, 200.8 R5.4, METALS BY ICPMS (TOTAL)



Receiving Check List

http://www.teklabinc.com/

Work Order: 24031316 Client: Geotechnology, Inc. Client Project: J044517.01 Report Date: 02-Apr-24 Carrier: Employee Received By: LEH Completed by: Ontoer Oblacce Reviewed by: On: On: 18-Mar-24 18-Mar-24 Amber Dilallo Ellie Hopkins Extra pages included 0 Pages to follow: Chain of custody Shipping container/cooler in good condition? **✓** No 🗔 Not Present Temp °C N/A Type of thermal preservation? **~** Ice _ Blue Ice None Dry Ice Chain of custody present? **~** No L Yes Chain of custody signed when relinquished and received? **~** Yes No L **~** Chain of custody agrees with sample labels? No 🗀 Yes **~** No 🗌 Samples in proper container/bottle? Yes **V** No 🗌 Sample containers intact? Yes Sufficient sample volume for indicated test? Yes **~** No **~** No \square All samples received within holding time? Yes NA 🗸 Field Lab \square Reported field parameters measured: Yes 🗸 No 🗌 Container/Temp Blank temperature in compliance? When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected. Water - at least one vial per sample has zero headspace? Yes 🗌 No 🗀 No VOA vials 🗸 No TOX containers Water - TOX containers have zero headspace? Yes No 🗌 Yes 🗹 No 🗌 Water - pH acceptable upon receipt? NA 🗸 NPDES/CWA TCN interferences checked/treated in the field? Yes No 🗀

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. 7 of 11 Work order # 24031316

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

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Contact:	Brad L				Pho	ne:		(31	4) 9	97-7	440			ı																				
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The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions.

BottleOrder:

80481



CHAIN OF CUSTODY pg. 8 of 16 Work order # 24631316

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

Client:		Geotechnology, L	LC													-						BLU			NO I	CE	_		<u> </u>	°C	LT	G#		
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City / State	/ Zip	St. Louis, MO 63	146											L	.ab	No	tes	;																
Contact:	Brad Lo	ohrum			_ Phone	ə:	(314	997	7-744	0		_																					
E-Mail:	blohrun	n@teamues.com			 Fax:								_	Ci	ien	t C	om	me	nts	;:														
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The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions.

BottleOrder:

80481



CHAIN OF CUSTODY

pg. 9 of 11 Work order # 240313/6

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

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BottleOrder:

CHAIN OF CUSTODY

pg. 10 of 1 Work order # 24031316

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

Client:	Ge	eotechnology, L	LC										T	Sai	mo	les	on		ICE	8	BLI	JE IC		NO	ICE				°C		TG#			_
Address:	11	816 Lackland R	load	<u></u>									- 8		-						FIE					OR	LAB	USI						
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Contact:	Brad Lohn	ım		Pho	nne.		(3	14)	997-	744	0		- ┃		- 11																			
E-Mail:	blohrum@	teamues.com	······································			•	_						ŀ	01?-	_ 4	^		4											***************************************					
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CHAIN OF CUSTODY

pg. | of | Work order # 2463/316

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

Client:		Geotechnology, LL	-C									ı	Sa	mp	oles	on	. (2	CE	[BLI	JE IC	E	NO	ICE				_ 0,	С	LT	G# _		
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City / State	/ Zip	St. Louis, MO 631	46										Lal	bΝ	lote	es																	
Contact:	Brad Lo	ohrum		Phone	e:	(314	997	7-74	40																							
E-Mail:	blohrun	n@teamues.com		Fax:		_						-	Clie	nt	Со	mm	en	ts:															
Are these samples Are there any requilimits in the comm	s known iired rep ent sect	to be involved in liti to be hazardous? porting limits to be m tion. Yes 🔀	Yes	☒ No e requested analys	is?.	lf ye	es, p	oleas	se pr	s [_																					
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05002

05003

9978

1004652024-2

Illinois

Illinois

Kansas

Louisiana

Louisiana

Oklahoma



July 11, 2024

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

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

RE: J044517.01 **WorkOrder:** 24062353

Dear Brad Lohrum:

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

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

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

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

Sincerely,

Patrick Riley Project Manager

(618)344-1004 ex 44

patrickriley@teklabinc.com



Report Contents

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Work Order: 24062353

Client Project: J044517.01

Report Date: 11-Jul-24

This reporting package includes the following:

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



Definitions

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Work Order: 24062353

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

Abbr Definition

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



Definitions

http://www.teklabinc.com/

Client: Geotechnology, Inc. Work Order: 24062353

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

Qualifiers

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

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



Case Narrative

http://www.teklabinc.com/

Work Order: 24062353

Report Date: 11-Jul-24

Client: Geotechnology, Inc.

Client Project: J044517.01

Cooler Receipt Temp: NA °C

Locations

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



Accreditations

http://www.teklabinc.com/

Client: Geotechnology, Inc. Work Order: 24062353

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

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



Laboratory Results

http://www.teklabinc.com/

Client: Geotechnology, Inc. Work Order: 24062353

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

Matrix: DRINKING WATER

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



Laboratory Results

http://www.teklabinc.com/

Client: Geotechnology, Inc. Work Order: 24062353

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

Matrix: DRINKING WATER

Sample ID	Client Sample ID	Certification Qual	RL	Result	Units	DF	Date Analyzed	Date Collected
EPA 600 4.1.	4, 200.8 R5.4, META	LS BY ICPMS (TOTAL)						
Lead								
24062353-049	A BHS-125-2	NELAP	1.0	8.8	µg/L	1	07/03/2024 21:54	06/26/2024 21:20
24062353-050	A BHS-126-2	NELAP	1.0	5.9	µg/L	1	07/03/2024 22:09	06/26/2024 21:20
24062353-051	A BHS-130-2	NELAP	1.0	< 1.0	µg/L	1	07/03/2024 22:13	06/26/2024 21:26
24062353-052	A BHS-222	NELAP	1.0	< 1.0	µg/L	1	07/03/2024 22:16	06/26/2024 21:30
24062353-053	BA BHS-223	NELAP	1.0	1.1	µg/L	1	07/03/2024 22:20	06/26/2024 21:30
24062353-054	A BHS-224	NELAP	1.0	< 1.0	μg/L	1	07/03/2024 22:24	06/26/2024 21:30
24062353-055	A BHS-225	NELAP	1.0	1.3	μg/L	1	07/03/2024 22:27	06/26/2024 21:30
24062353-056	6A BHS-226	NELAP	1.0	3.0	µg/L	1	07/03/2024 22:31	06/26/2024 21:15
24062353-057	'A BHS-227	NELAP	1.0	2.8	µg/L	1	07/03/2024 22:35	06/26/2024 21:15



Receiving Check List

http://www.teklabinc.com/

Work Order: 24062353 Client: Geotechnology, Inc. Client Project: J044517.01 Report Date: 11-Jul-24 Carrier: Craig McKinney Received By: NR Completed by: Reviewed by: On: On: 28-Jun-24 28-Jun-24 Paul Schultz Ellie Hopkins Extra pages included 0 Pages to follow: Chain of custody Shipping container/cooler in good condition? Yes **✓** No 🗔 Not Present Temp °C NA Type of thermal preservation? **~** Ice _ Blue Ice None Dry Ice Chain of custody present? **~** No L Yes Chain of custody signed when relinquished and received? **~** Yes No L **~** Chain of custody agrees with sample labels? No 🗀 Yes **~** No 🗌 Samples in proper container/bottle? Yes **V** No 🗌 Sample containers intact? Yes Sufficient sample volume for indicated test? Yes **~** No **~** No \square All samples received within holding time? Yes NA 🗸 Field Lab Reported field parameters measured: Yes 🗸 No 🗌 Container/Temp Blank temperature in compliance? When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected. No VOA vials 🗸 Water - at least one vial per sample has zero headspace? Yes 🗌 No 🗀 No TOX containers Water - TOX containers have zero headspace? Yes No 🗌 Yes 🗹 No 🗌 Water - pH acceptable upon receipt? NA 🗹 NPDES/CWA TCN interferences checked/treated in the field? Yes No \square Any No responses must be detailed below or on the COC.

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

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

Contact: E-Mail: Are these samples Are these samples Are there any requ	known to be hazardous?	Phone Fax: tigation? If yes, a surcharge Yes No met on the requested analys	will appl		Yes D	No	Pi Li Cii	res ab	erve Note	ed ir	1; 🗵	LAB	BLUEICE MOICE NA °C LTG# B FIELD FOR LAB USE ONLY COUNTER
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CHAIN OF CUSTODY pg. 2 of 6 Work order # 24062573

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

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Client:	Geotechnology, LI	_C							-		-					BLUE I	CE	M NC	ICE				,C	LTG	#		}
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City / State		46							L	ab	Not	tes														i	
Contact:	Brad Lohrum	Phone	2:	(314	997	-7440)																				
E-Mail:	blohrum@teamues.com	Fax:							CI	ien	t Co	omi	me	nts	:			e e e e e e e e e e e e e e e e e e e	- Children	Wy same or the same	(Commonwell)			·2	***************************************	- v 460	-
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CHAIN OF CUSTODY pg. \leq of ℓ Work order # 29062353

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

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E-Mail:		olohrum	@teamu	ies.com	••••		Fax	:								_	CI	lier	ıt C	om	ıme	ents	s:					A Comment of the Section		0,5 2 TO 10 TO 10	17: 2	m.\.					
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CHAIN OF CUSTODY pg. 4 of 6 Work order # 24062353

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

Client:	Geotechnolog	/, LLC				•••		s	am	ple	s on		ICE	BLUE	ICE	NOI	CE			°С	LTG#	
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CHAIN OF CUSTODY pg. 5 of 6 Work order # 24062353

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

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CHAIN OF CUSTODY pg. 6 of 6

Work order # 2406 2353

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

Client:	Geotechnology, L	TC					5	Sar	npl	es	on:		ICE	BLUE	CE	® NO	ICE			°C	•	LTG#		
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APPENDIX D

LIMITATIONS OF REPORT

ENVIRONMENTAL SAMPLING LIMITATIONS OF REPORT

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