

COLUMBIA PUBLIC SCHOOLS BATTLE HIGH SCHOOL 7575 EAST ST. CHARLES ROAD COLUMBIA, MISSOURI

> Prepared for: COLUMBIA PUBLIC SCHOOLS COLUMBIA, MISSOURI

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

Date: JULY 20, 2024

Project No.: **J044517.01**

SAFETY TEAMWORK RESPONSIVENESS INTEGRITY VALUE EXCELLENCE



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

July 20, 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 Battle High School 7575 East St. Charles 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 Battle High School, located northeast of the intersection of Battle Avenue and East St. Charles 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 5, 6, 14, and 15, 2024, and June 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, 2, and 3.

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

RESULTS

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

Sample Number / Location and Fixture Type	Results
BHS-07 / Room J103 Sink	11.4 ppb
BHS-08 / Room J113 North Sink	5 ppb
BHS-13 / Room H106 North Sink	5 ppb
BHS-14 / Room H106 West Left Sink	13.1 ppb
BHS-15 / Room H106 West Right Sink	9.9 ppb
BHS-16 / Room H106 East Left Sink	14.4 ppb
BHS-17 / Room H106 East Right Sink	25.9 ppb
BHS-18 / Room H110 South Sink	5.2 ppb
BHS-19 / Room H110 West Left Sink	9.4 ppb
BHS-20 / Room H110 West Left Center Sink	17.1 ppb
BHS-21 / Room H110 West Center Sink	16.4 ppb
BHS-22 / Room H110 West Right Center Sink	14.6 ppb
BHS-23 / Room H110 West Right Sink	26.8 ppb
BHS-24 / Room H110 North Sink	8.1 ppb
BHS-27 / Room H114 North Sink	6.5 ppb
BHS-28 / Room H114 East Left Sink	9.3 ppb
BHS-29 / Room H114 East Left Center Sink	7.3 ppb
BHS-30 / Room H114 East Center Sink	8.1 ppb
BHS-31 / Room H114 East Right Center Sink	9.3 ppb

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



TABLE 2 - CONTINUED

Sample Number / Location and Fixture Type	Results
BHS-32 / Room H114 East Right Sink	5.7 ppb
BHS-33 / Room H114 South Sink	12.5 ppb
BHS-34 / Room H114 Teacher's Sink	24.1 ppb
BHS-37 / Room G110 South Sink	6.6 ppb
BHS-38 / Room G110 West Left Sink	5.1 ppb
BHS-39 / Room G110 West Left Center Sink	5.8 ppb
BHS-40 / Room G110 West Center Sink	6 ppb
BHS-42 / Room G110 West Right Sink	5.9 ppb
BHS-44 / Room G110 Teacher's Sink	5.7 ppb
BHS-45 / Room G112 Sink	5.3 ppb
BHS-46 / Room G113 North Sink	9.2 ppb
BHS-47 / Room G113 East Left Sink	8.3 ppb
BHS-48 / Room G113 East Left Center Sink	5.7 ppb
BHS-49 / Room G113 East Center Sink	9.6 ppb
BHS-50 / Room G113 East Right Center Sink	7.3 ppb
BHS-52 / Room G113 East Right Sink	10.6 ppb
BHS-53 / Room G113 Teacher's Sink	9.2 ppb
BHS-57 / Room F110 South Sink	9.7 ppb
BHS-59 / Room F110 West Left Center Sink	7.9 ppb
BHS-60 / Room F110 West Center Sink	5.8 ppb
BHS-61 / Room F110 West Right Center Sink	6.9 ppb
BHS-62 / Room F110 West Right Sink	5.1 ppb
BHS-81 / Room C106 Sink	9 ppb
BHS-83 / Room B109 Dish Wash Sink	11.9 ppb
BHS-101 / Room A102 Left Sink	5.6 ppb
BHS-106 / Room A101 North Right Sink	5 ppb
BHS-107 / Room A101 East Left Sink	9 ppb
BHS-111 / Room A126 Sink	5.2 ppb
BHS-122 / Room D237 Food Prep East Sink	5 ppb
BHS-125 / Room D237 Dish Wash Center Sink	6.7 ppb
BHS-126 / Room D237 Dish Wash Right Sink	5.2 ppb
BHS-130 / Room D231 Dish Rinse Sink	8.1 ppb
BHS-136 / Room D231 Eye Wash Sink	35.7 ppb
BHS-142 / Room D227 Sink	7.8 ppb
BHS-143 / Room D226 Sink	10 ppb
BHS-146 / Room F215 South Sink	7.5 ppb
BHS-147 / Room F215 West Left Sink	7.5 ppb
BHS-148 / Room F215 West Left Center Sink	6.5 ppb



TABLE 3 - CONTINUED

Sample Number / Location and Fixture Type	Results
BHS-149 / Room F215 West Center Sink	6.9 ppb
BHS-150 / Room F215 West Right Center Sink	7.5 ppb
BHS-151 / Room F215 West Right Sink	7.8 ppb
BHS-152 / Room F215 North Sink	5.8 ppb
BHS-153 / Room F215 Teacher's Sink	9.1 ppb
BHS-154 / Room F216 Sink	9.8 ppb
BHS-155 / Room F218 North Sink	6.9 ppb
BHS-156 / Room F218 East Left Sink	10.7 ppb
BHS-157 / Room F218 East Left Center Sink	12.9 ppb
BHS-158 / Room F218 East Center Sink	9 ppb
BHS-159 / Room F218 East Right Center Sink	9.8 ppb
BHS-160 / Room F218 East Right Sink	5.7 ppb
BHS-162 / Room F218 Teacher's Sink	68.8 ppb
BHS-166 / Room G215 South Sink	7 ppb
BHS-167 / Room G215 West Left Sink	17 ppb
BHS-168 / Room G215 West Left Center Sink	7.9 ppb
BHS-169 / Room G215 West Center Sink	10.6 ppb
BHS-170 / Room G215 West Right Center Sink	8.5 ppb
BHS-171 / Room G215 West Right Sink	16.6 ppb
BHS-172 / Room G215 North Sink	10.7 ppb
BHS-173 / Room G215 Teacher's Sink	8.8 ppb
BHS-175 / Room G218 North Sink	5.3 ppb
BHS-176 / Room G218 East Left Sink	7.6 ppb
BHS-177 / Room G218 East Left Center Sink	7.6 ppb
BHS-178 / Room G218 East Center Sink	7.2 ppb
BHS-180 / Room G218 East Right Sink	8 ppb
BHS-182 / Room G218 Teacher's Sink	17.2 ppb
BHS-185 / Room H215 South Sink	20.9 ppb
BHS-186 / Room H215 West Left Sink	516 ppb
BHS-187 / Room H215 West Left Center Sink	8.6 ppb
BHS-188 / Room H215 West Center Sink	12.4 ppb
BHS-189 / Room H215 West Right Center Sink	10.5 ppb
BHS-190 / Room H215 West Right Sink	58.5 ppb
BHS-191 / Room H215 North Sink	13.4 ppb
BHS-192 / Room H215 Teacher's Sink	12.8 ppb
BHS-193 / Room H216 Sink	7.2 ppb
BHS-194 / Room H218 North Sink	5.9 ppb
BHS-195 / Room H218 East Left Sink	9.1 ppb



TABLE 4 - CONTINUED

Sample Number / Location and Fixture Type	Results
BHS-196 / Room H218 East Left Center Sink	8.1 ppb
BHS-197 / Room H218 East Center Sink	12.1 ppb
BHS-198 / Room H218 East Right Center Sink	7.2 ppb
BHS-199 / Room H218 East Right Sink	13.1 ppb
BHS-200 / Room H218 South Sink	5 ppb
BHS-201 / Room H218 Teacher's Sink	5.1 ppb
BHS-206 / Room J215 West Left Sink	9.1 ppb
BHS-207 / Room J215 West Left Center Sink	9.4 ppb
BHS-208 / Room J215 West Center Sink	8.4 ppb
BHS-209 / Room J215 West Right Center Sink	11.9 ppb
BHS-210 / Room J215 West Right Sink	14.6 ppb
BHS-211 / Room J215 North Sink	7.9 ppb
BHS-212 / Room J215 Teacher's Sink	5.4 ppb
BHS-213 / Room J216 Sink	9.7 ppb
BHS-214 / Room J218 North Sink	14.5 ppb
BHS-215 / Room J218 East Left Sink	7.7 ppb
BHS-216 / Room J218 East Left Center Sink	6.5 ppb
BHS-217 / Room J218 East Center Sink	7.4 ppb
BHS-218 / Room J218 East Right Center Sink	7.9 ppb
BHS-219 / Room J218 East Right Sink	5.3 ppb
BHS-220 / Room J218 South Sink	11.5 ppb
BHS-221 / Room J218 Teacher's Sink	5.2 ppb

UES personnel resampled client-designated outlets on June 26, 2024 (BHS-83-2, BHS-122-2, BHS-125-2, BHS-126-2, and BHS-130-2). Laboratory analyses detected the presence of lead at or above 5 ppb in the following samples.

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

Sample Number / Location and Fixture Type	Results
BHS-83-2 / Room B109 Dish Wash Sink	17.6 ppb
BHS-125-2 / Room D237 Dish Wash Center Sink	8.8 ppb
BHS-126-2 / Room D237 Dish Wash Right Sink	5.9 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 outlets identified in Table 2 should be taken out of service pending further remediation activities. These fixtures 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 – First Floor
Figure 2	-	Drinking Water Sample Locations – Second Floor
Figure 3	-	Drinking Water Sample Locations – Exterior
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.

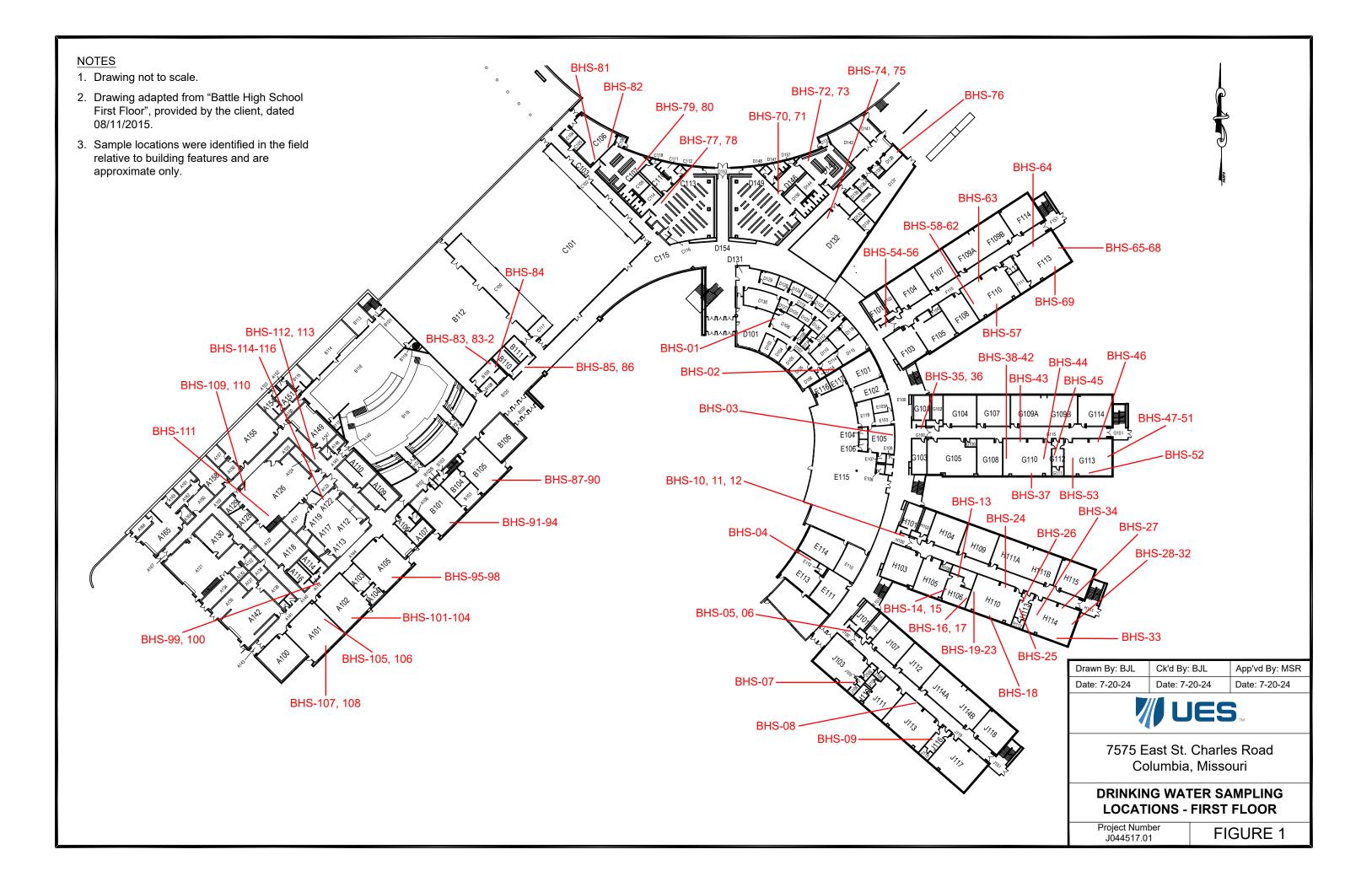
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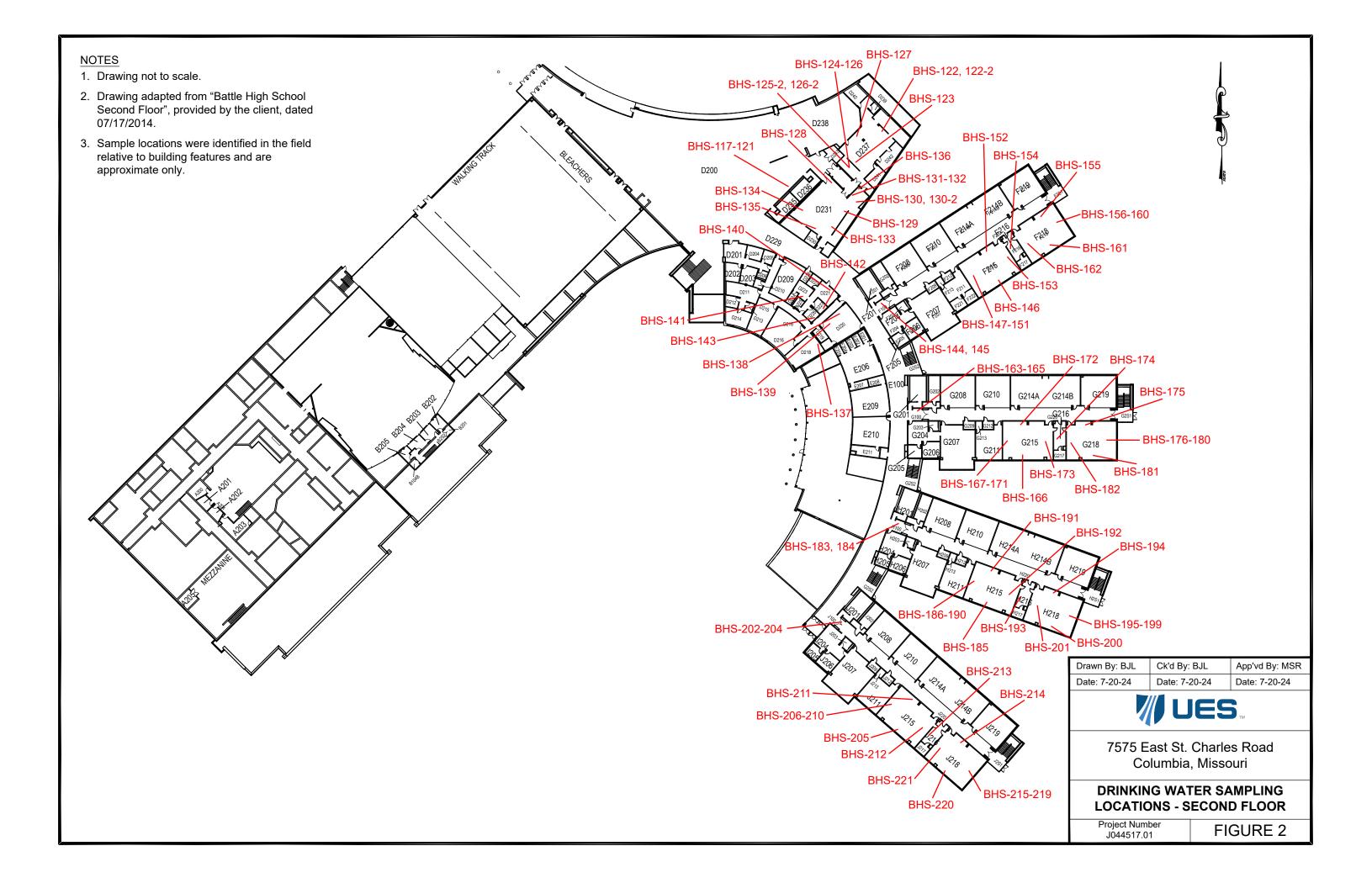
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Bradley J. Lohrum Project Manager

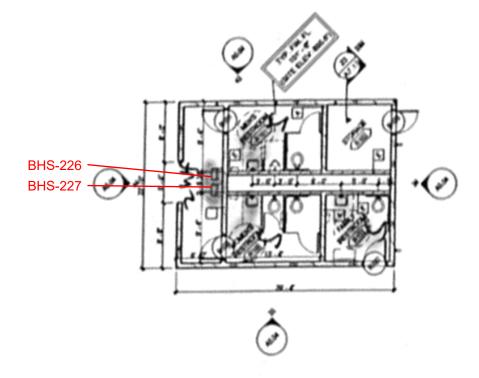
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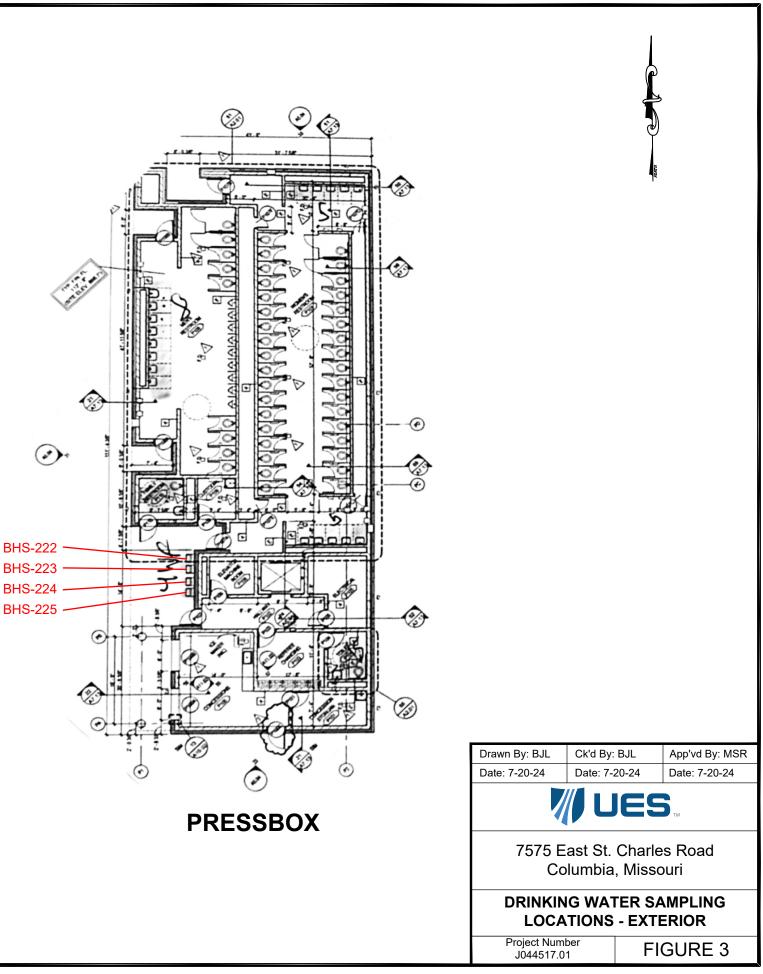


NOTES

- 1. Drawing not to scale.
- Drawing adapted from "Site Building Plans Columbia High School", provided by the client, dated 05/17/2010.
- 3. Sample locations were identified in the field relative to building features and are approximate only.



SOFTBALL RESTROOMS







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 shuedu/x39753.xml

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

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

Daven I. Nichel

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

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

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:2Expiration Date:2License Number:2

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

Daven I. Nichels

Paula F. Nickelson Director Department of Health and Senior Services

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



APPENDIX B

DRINKING WATER SAMPLING FORMS



Project Name: Columbia Public Schools Water Sampling and Reporting Services

Building Name: Battle High School

Project Number: J044517.01

Address: 7575 East St. Charles Road Columbia, Missouri

Sample ID Fixture Type Location Flushed By - Date - Time Sampled By - Date - Time BHS-01 S Room D108 BJL - 3/5/24 - 20:46 BJL - 3/6/24 - 4:46 Room D114 BJL - 3/5/24 - 20:48 BJL - 3/6/24 - 4:48 BHS-02 S BJL - 3/5/24 - 20:51 BJL - 3/6/24 - 4:51 BHS-03 S Room E105 BJL - 3/5/24 - 20:55 BJL - 3/6/24 - 4:55 BHS-04 S Room E113 **BHS-05** WF Room J100 - Left BJL - 3/5/24 - 21:00 BJL - 3/6/24 - 5:00 WF Room J100 - Right BJL - 3/5/24 - 21:00 BJL - 3/6/24 - 5:00 BHS-06 BHS-07 S Room J103 BJL - 3/5/24 - 21:06 BJL - 3/6/24 - 5:06 S BJL - 3/5/24 - 21:10 BJL - 3/6/24 - 5:10 Room J113 - North **BHS-08 BHS-09** S Room J116 BJL - 3/5/24 - 21:12 BJL - 3/6/24 - 5:12 **BHS-10** BF Room H100 BJL - 3/5/24 - 21:15 BJL - 3/6/24 - 5:15 Room H100 - Left BJL - 3/5/24 - 21:15 BJL - 3/6/24 - 5:15 BHS-11 WF BJL - 3/5/24 - 21:15 BJL - 3/6/24 - 5:15 WF Room H100 - Right BHS-12 BHS-13 S Room H106 - North BJL - 3/5/24 - 21:17 BJL - 3/6/24 - 5:17 BHS-14 S Room H106 - West Left BJL - 3/5/24 - 21:17 BJL - 3/6/24 - 5:17 S BJL - 3/5/24 - 21:17 BJL - 3/6/24 - 5:17 **BHS-15** Room H106 - West Right BJL - 3/6/24 - 5:17 S Room H106 - East Left BJL - 3/5/24 - 21:17 BHS-16 BJL - 3/5/24 - 21:17 BJL - 3/6/24 - 5:17 BHS-17 S Room H106 - East Right S Room H110 - South BJL - 3/5/24 - 21:20 BJL - 3/6/24 - 5:20 **BHS-18 BHS-19** S Room H110 - West Left BJL - 3/5/24 - 21:20 BJL - 3/6/24 - 5:20 BHS-20 S Room H110 - West Left Center BJL - 3/5/24 - 21:20 BJL - 3/6/24 - 5:20 Room H110 - West Center BHS-21 S BJL - 3/5/24 - 21:20 BJL - 3/6/24 - 5:20 BHS-22 S Room H110 - West Right Center BJL - 3/5/24 - 21:20 BJL - 3/6/24 - 5:20 BHS-23 S Room H110 - West Right BJL - 3/5/24 - 21:20 BJL - 3/6/24 - 5:20 BHS-24 S Room H110 - North BJL - 3/5/24 - 21:20 BJL - 3/6/24 - 5:20 S Room H113 BJL - 3/5/24 - 21:25 BJL - 3/6/24 - 5:25 BHS-25

BF=Bottle Filling B=Bubbler

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



Project Number: J044517.01

Sampling and Reporting Services Building Name: Battle High School Address: 7575 East St. Charles Road Columbia, Missouri

Sample ID	Fixture Type	Location	Flushed By - Date - Time	Sampled By - Date - Time
BHS-26	ICE	Room H113	N/A	BJL - 3/6/24 - 5:25
BHS-27	S	Room H114 - North	BJL - 3/5/24 - 21:27	BJL - 3/6/24 - 5:27
BHS-28	S	Room H114 - East Left	BJL - 3/5/24 - 21:27	BJL - 3/6/24 - 5:27
BHS-29	S	Room H114 - East Left Center	BJL - 3/5/24 - 21:27	BJL - 3/6/24 - 5:27
BHS-30	S	Room H114 - East Center	BJL - 3/5/24 - 21:27	BJL - 3/6/24 - 5:27
BHS-31	S	Room H114 - Right Center	BJL - 3/5/24 - 21:27	BJL - 3/6/24 - 5:27
BHS-32	S	Room H114 - East Right	BJL - 3/5/24 - 21:27	BJL - 3/6/24 - 5:27
BHS-33	S	Room H114 - South	BJL - 3/5/24 - 21:27	BJL - 3/6/24 - 5:27
BHS-34	S	Room H114 - Teacher	BJL - 3/5/24 - 21:27	BJL - 3/6/24 - 5:27
BHS-35	WF	Room G100 - Left	BJL - 3/5/24 - 21:33	BJL - 3/6/24 - 5:33
BHS-36	WF	Room G100 - Right	BJL - 3/5/24 - 21:33	BJL - 3/6/24 - 5:33
BHS-37	S	Room G110 - South	BJL - 3/5/24 - 21:35	BJL - 3/6/24 - 5:35
BHS-38	S	Room G110 - West Left	BJL - 3/5/24 - 21:35	BJL - 3/6/24 - 5:35
BHS-39	S	Room G110 - West Left Center	BJL - 3/5/24 - 21:35	BJL - 3/6/24 - 5:35
BHS-40	S	Room G110 - West Center	BJL - 3/5/24 - 21:35	BJL - 3/6/24 - 5:35
BHS-41	S	Room G110 - West Right Center	BJL - 3/5/24 - 21:35	BJL - 3/6/24 - 5:35
BHS-42	S	Room G110 - West Right	BJL - 3/5/24 - 21:35	BJL - 3/6/24 - 5:35
BHS-43	S	Room G110 - North	BJL - 3/5/24 - 21:35	BJL - 3/6/24 - 5:35
BHS-44	S	Room G110 - Teacher	BJL - 3/5/24 - 21:35	BJL - 3/6/24 - 5:35
BHS-45	S	Room G112	BJL - 3/5/24 - 21:42	BJL - 3/6/24 - 5:42
BHS-46	S	Room G113 - North	BJL - 3/5/24 - 21:43	BJL - 3/6/24 - 5:43
BHS-47	S	Room G113 - East Left	BJL - 3/5/24 - 21:43	BJL - 3/6/24 - 5:43
BHS-48	S	Room G113 - East Left Center	BJL - 3/5/24 - 21:43	BJL - 3/6/24 - 5:43
BHS-49	S	Room G113 - East Center	BJL - 3/5/24 - 21:43	BJL - 3/6/24 - 5:43
BHS-50	S	Room G113 - East Right Center	BJL - 3/5/24 - 21:43	BJL - 3/6/24 - 5:43

BF=Bottle Filling B=Bubbler

FW=Filtered Water ICE=Ice Machine



Project Number: J044517.01

Sampling and Reporting Services Building Name: Battle High School Address: 7575 East St. Charles Road Columbia, Missouri

Sample ID	Fixture Type	Location	Flushed By - Date - Time	Sampled By - Date - Time
BHS-51	S	Room G113 - East Right	BJL - 3/5/24 - 21:43	BJL - 3/6/24 - 5:43
BHS-52	S	Room G113 - South	BJL - 3/5/24 - 21:43	BJL - 3/6/24 - 5:43
BHS-53	S	Room G113 - Teacher	BJL - 3/5/24 - 21:43	BJL - 3/6/24 - 5:43
BHS-54	BF	Room F100	BJL - 3/5/24 - 21:48	BJL - 3/6/24 - 5:48
BHS-55	WF	Room F100 - Left	BJL - 3/5/24 - 21:48	BJL - 3/6/24 - 5:48
BHS-56	WF	Room F100 - Right	BJL - 3/5/24 - 21:48	BJL - 3/6/24 - 5:48
BHS-57	S	Room F110 - South	BJL - 3/5/24 - 21:50	BJL - 3/6/24 - 5:50
BHS-58	S	Room F110 - West Left	BJL - 3/5/24 - 21:50	BJL - 3/6/24 - 5:50
BHS-59	S	Room F110 - West Left Center	BJL - 3/5/24 - 21:50	BJL - 3/6/24 - 5:50
BHS-60	S	Room F110 - West Center	BJL - 3/5/24 - 21:50	BJL - 3/6/24 - 5:50
BHS-61	S	Room F110 - West Right Center	BJL - 3/5/24 - 21:50	BJL - 3/6/24 - 5:50
BHS-62	S	Room F110 - West Right	BJL - 3/5/24 - 21:50	BJL - 3/6/24 - 5:50
BHS-63	S	Room F110 - North	BJL - 3/5/24 - 21:50	BJL - 3/6/24 - 5:50
BHS-64	S	Room F113 - Pink	BJL - 3/5/24 - 21:56	BJL - 3/6/24 - 5:56
BHS-65	S	Room F113 - Gold	BJL - 3/5/24 - 21:56	BJL - 3/6/24 - 5:56
BHS-66	S	Room F113 - Green	BJL - 3/5/24 - 21:56	BJL - 3/6/24 - 5:56
BHS-67	S	Room F113 - Aqua	BJL - 3/5/24 - 21:56	BJL - 3/6/24 - 5:56
BHS-68	S	Room F113 - Blue	BJL - 3/5/24 - 21:56	BJL - 3/6/24 - 5:56
BHS-69	S	Room F113 - Purple	BJL - 3/5/24 - 21:56	BJL - 3/6/24 - 5:56
BHS-70	WF	Room D149 - Left	BJL - 3/5/24 - 22:00	BJL - 3/6/24 - 6:00
BHS-71	WF	Room D149 - Right	BJL - 3/5/24 - 22:00	BJL - 3/6/24 - 6:00
BHS-72	WF	Room D143 - Left	BJL - 3/5/24 - 22:03	BJL - 3/6/24 - 6:03
BHS-73	WF	Room D143 - Right	BJL - 3/5/24 - 22:03	BJL - 3/6/24 - 6:03
BHS-74	WF	Room D132 - Left	BJL - 3/5/24 - 22:07	BJL - 3/6/24 - 6:07
BHS-75	WF	Room D132 - Right	BJL - 3/5/24 - 22:07	BJL - 3/6/24 - 6:07

BF=Bottle Filling B=Bubbler

FW=Filtered Water ICE=Ice Machine



Project Name: Columbia Public Schools Water Sampling and Reporting Services Project Number: J044517.01

Building Name: Battle High School

Address: 7575 East St. Charles Road Columbia, Missouri

Sample ID Fixture Type Location Flushed By - Date - Time Sampled By - Date - Time BHS-76 S Room D139 BJL - 3/5/24 - 22:08 BJL - 3/6/24 - 6:08 Room C113 - Left BJL - 3/5/24 - 22:11 BJL - 3/6/24 - 6:11 BHS-77 S BJL - 3/5/24 - 22:11 BJL - 3/6/24 - 6:11 BHS-78 S Room C113 - Right BJL - 3/5/24 - 22:13 BHS-79 S Room C107 - Left BJL - 3/6/24 - 6:13 **BHS-80** S Room C107 - Right BJL - 3/5/24 - 22:13 BJL - 3/6/24 - 6:13 S Room C106 BJL - 3/5/24 - 22:15 BJL - 3/6/24 - 6:15 BHS-81 **BHS-82** ICE Room C106 N/A BJL - 3/6/24 - 6:15 S BJL - 3/5/24 - 22:21 BJL - 3/6/24 - 6:21 Room B109 - Dish Wash **BHS-83** BHS-84 S Room B109 - Food Prep BJL - 3/5/24 - 22:21 BJL - 3/6/24 - 6:21 **BHS-85** WF Room B110/B111 - Left BJL - 3/5/24 - 22:24 BJL - 3/6/24 - 6:24 BJL - 3/5/24 - 22:24 BJL - 3/6/24 - 6:24 **BHS-86** WF Room B110/B111 - Right BJL - 3/5/24 - 22:28 BJL - 3/6/24 - 6:28 S Room B105 - Left **BHS-87** S Room B105 - Left Center BJL - 3/5/24 - 22:28 BJL - 3/6/24 - 6:28 **BHS-88 BHS-89** S Room B105 - Right Center BJL - 3/5/24 - 22:28 BJL - 3/6/24 - 6:28 S BJL - 3/5/24 - 22:28 BJL - 3/6/24 - 6:28 **BHS-90** Room B105 - Right BHS-91 S Room B101 - Left BJL - 3/5/24 - 22:32 BJL - 3/6/24 - 6:32 Room B101 - Left Center BJL - 3/5/24 - 22:32 BJL - 3/6/24 - 6:32 S **BHS-92** S Room B101 - Right Center BJL - 3/5/24 - 22:32 BJL - 3/6/24 - 6:32 **BHS-93** BHS-94 S Room B101 - Right BJL - 3/5/24 - 22:32 BJL - 3/6/24 - 6:32 BHS-95 S Room A105 - Left BJL - 3/5/24 - 22:35 BJL - 3/6/24 - 6:35 **BHS-96** S Room A105 - Left Center BJL - 3/5/24 - 22:35 BJL - 3/6/24 - 6:35 **BHS-97** S Room A105 - Right Center BJL - 3/5/24 - 22:35 BJL - 3/6/24 - 6:35 **BHS-98** S Room A105 - Right BJL - 3/5/24 - 22:35 BJL - 3/6/24 - 6:35 **BHS-99** WF Hallway at Room A115 - Left BJL - 3/5/24 - 22:37 BJL - 3/6/24 - 6:37 WF Hallway at Room A115 - Right BJL - 3/5/24 - 22:37 BJL - 3/6/24 - 6:37 **BHS-100**

BF=Bottle Filling B=Bubbler

FW=Filtered Water ICE=Ice Machine



Project Number: J044517.01

Sampling and Reporting Services Building Name: Battle High School Address: 7575 East St. Charles Road Columbia, Missouri

Sample ID	Fixture Type	Location	Flushed By - Date - Time	Sampled By - Date - Time
BHS-101	S	Room A102 - Left	BJL - 3/5/24 - 22:39	BJL - 3/6/24 - 6:39
BHS-102	S	Room A102 - Left Center	BJL - 3/5/24 - 22:39	BJL - 3/6/24 - 6:39
BHS-103	S	Room A102 - Center	BJL - 3/5/24 - 22:39	BJL - 3/6/24 - 6:39
BHS-104	S	Room A102 - Right	BJL - 3/5/24 - 22:39	BJL - 3/6/24 - 6:39
BHS-105	S	Room A101 - North Left	BJL - 3/5/24 - 22:42	BJL - 3/6/24 - 6:42
BHS-106	S	Room A101 - North Right	BJL - 3/5/24 - 22:42	BJL - 3/6/24 - 6:42
BHS-107	S	Room A101 - East Left	BJL - 3/5/24 - 22:42	BJL - 3/6/24 - 6:42
BHS-108	S	Room A101 - East Right	BJL - 3/5/24 - 22:42	BJL - 3/6/24 - 6:42
BHS-109	WF	Room A126 - Left	BJL - 3/5/24 - 22:44	BJL - 3/6/24 - 6:44
BHS-110	WF	Room A126 - Right	BJL - 3/5/24 - 22:44	BJL - 3/6/24 - 6:44
BHS-111	S	Room A126	BJL - 3/5/24 - 22:44	BJL - 3/6/24 - 6:44
BHS-112	WF	Hallway at Room A149 - Left	BJL - 3/5/24 - 22:49	BJL - 3/6/24 - 6:49
BHS-113	WF	Hallway at Room A149 - Right	BJL - 3/5/24 - 22:49	BJL - 3/6/24 - 6:49
BHS-114	BF	Room A112	BJL - 3/5/24 - 22:51	BJL - 3/6/24 - 6:51
BHS-115	WF	Room A112 - Left	BJL - 3/5/24 - 22:51	BJL - 3/6/24 - 6:51
BHS-116	WF	Room A112 - Right	BJL - 3/5/24 - 22:51	BJL - 3/6/24 - 6:51
BHS-117	WF	Room D200 - Left	BJL - 3/5/24 - 22:55	BJL - 3/6/24 - 6:55
BHS-118	WF	Room D200 - Left Center	BJL - 3/5/24 - 22:55	BJL - 3/6/24 - 6:55
BHS-119	BF	Room D200	BJL - 3/5/24 - 22:55	BJL - 3/6/24 - 6:55
BHS-120	WF	Room D200 - Right Center	BJL - 3/5/24 - 22:55	BJL - 3/6/24 - 6:55
BHS-121	WF	Room D200 - Right	BJL - 3/5/24 - 22:55	BJL - 3/6/24 - 6:55
BHS-122	S	Room D237 - Food Prep East	BJL - 3/14/24 - 18:56	BJL - 3/15/24 - 3:43
BHS-123	S	Room D237 - Food Prep West	BJL - 3/14/24 - 18:56	BJL - 3/15/24 - 3:43
BHS-124	S	Room D237 - Dish Wash Left	BJL - 3/14/24 - 18:56	BJL - 3/15/24 - 3:43
BHS-125	S	Room D237 - Dish Wash Center	BJL - 3/14/24 - 18:56	BJL - 3/15/24 - 3:43

BF=Bottle Filling B=Bubbler

FW=Filtered Water ICE=Ice Machine



Sampling and Reporting Services
Building Name: Battle High School

Project Number: J044517.01

Address: 7575 East St. Charles Road Columbia, Missouri

Sample ID	Fixture Type	Location	Flushed By - Date - Time	Sampled By - Date - Time
BHS-126	S	Room D237 Dish Wash Right	BJL - 3/14/24 - 18:56	BJL - 3/15/24 - 3:43
BHS-127	ICE	Room D237	BJL - 3/14/24 - 18:56	BJL - 3/15/24 - 3:43
BHS-128	HW	Room D231 - Hand Wash West	BJL - 3/5/24 - 23:04	BJL - 3/6/24 - 7:04
BHS-129	HW	Room D231 - Hand Wash East	BJL - 3/5/24 - 23:04	BJL - 3/6/24 - 7:04
BHS-130	S	Room D231 - Dish Rinse	BJL - 3/5/24 - 23:04	BJL - 3/6/24 - 7:04
BHS-131	S	Room D231 - Dish Wash Left	BJL - 3/5/24 - 23:04	BJL - 3/6/24 - 7:04
BHS-132	S	Room D231 - Dish Wash Right	BJL - 3/5/24 - 23:04	BJL - 3/6/24 - 7:04
BHS-133	S	Room D231 - Food Prep	BJL - 3/5/24 - 23:04	BJL - 3/6/24 - 7:04
BHS-134	S	Room D231 - Hot Table	BJL - 3/5/24 - 23:04	BJL - 3/6/24 - 7:04
BHS-135	ICE	Room D231	BJL - 3/5/24 - 23:04	BJL - 3/6/24 - 7:04
BHS-136	S	Room D231 - Eye Wash	BJL - 3/5/24 - 23:04	BJL - 3/6/24 - 7:04
BHS-137	S	Room D218	BJL - 3/5/24 - 23:07	BJL - 3/6/24 - 7:07
BHS-138	S	Room D220	BJL - 3/5/24 - 23:08	BJL - 3/6/24 - 7:08
BHS-139	ICE	Room D220	BJL - 3/5/24 - 23:08	BJL - 3/6/24 - 7:08
BHS-140	S	Room D221	BJL - 3/5/24 - 23:10	BJL - 3/6/24 - 7:10
BHS-141	S	Room D223	BJL - 3/5/24 - 23:10	BJL - 3/6/24 - 7:10
BHS-142	S	Room D227	BJL - 3/5/24 - 23:10	BJL - 3/6/24 - 7:10
BHS-143	S	Room D226	BJL - 3/5/24 - 23:10	BJL - 3/6/24 - 7:10
BHS-144	WF	Room F200 - Left	BJL - 3/5/24 - 23:14	BJL - 3/6/24 - 7:14
BHS-145	WF	Room F200 - Right	BJL - 3/5/24 - 23:14	BJL - 3/6/24 - 7:14
BHS-146	S	Room F215 - South	BJL - 3/5/24 - 23:15	BJL - 3/6/24 - 7:15
BHS-147	S	Room F215 - West Left	BJL - 3/5/24 - 23:15	BJL - 3/6/24 - 7:15
BHS-148	S	Room F215 - West Left Center	BJL - 3/5/24 - 23:15	BJL - 3/6/24 - 7:15
BHS-149	S	Room F215 - West Center	BJL - 3/5/24 - 23:15	BJL - 3/6/24 - 7:15
BHS-150	S	Room F215 - West Right Center	BJL - 3/5/24 - 23:15	BJL - 3/6/24 - 7:15

BF=Bottle Filling B=Bubbler

FW=Filtered Water ICE=Ice Machine S=Classroom/Other Sink WF=Water Fountain HW=Hand Washing



Project Number: J044517.01

Sampling and Reporting Services Building Name: Battle High School Address: 7575 East St. Charles Road Columbia, Missouri

Sample ID	Fixture Type	Location	Flushed By - Date - Time	Sampled By - Date - Time
BHS-151	S	Room F215 - West Right	BJL - 3/5/24 - 23:15	BJL - 3/6/24 - 7:15
BHS-152	S	Room F215 - North	BJL - 3/5/24 - 23:15	BJL - 3/6/24 - 7:15
BHS-153	S	Room F215 - Teacher	BJL - 3/5/24 - 23:15	BJL - 3/6/24 - 7:15
BHS-154	S	Room F216	BJL - 3/5/24 - 23:18	BJL - 3/6/24 - 7:18
BHS-155	S	Room F218 - North	BJL - 3/5/24 - 23:20	BJL - 3/6/24 - 7:20
BHS-156	S	Room F218 - East Left	BJL - 3/5/24 - 23:20	BJL - 3/6/24 - 7:20
BHS-157	S	Room F218 - East Left Center	BJL - 3/5/24 - 23:20	BJL - 3/6/24 - 7:20
BHS-158	S	Room F218 - East Center	BJL - 3/5/24 - 23:20	BJL - 3/6/24 - 7:20
BHS-159	S	Room F218 - East Right Center	BJL - 3/5/24 - 23:20	BJL - 3/6/24 - 7:20
BHS-160	S	Room F218 - East Right	BJL - 3/5/24 - 23:20	BJL - 3/6/24 - 7:20
BHS-161	S	Room F218 - South	BJL - 3/5/24 - 23:20	BJL - 3/6/24 - 7:20
BHS-162	S	Room F218 - Teacher	BJL - 3/5/24 - 23:20	BJL - 3/6/24 - 7:20
BHS-163	BF	Room G200	BJL - 3/5/24 - 23:24	BJL - 3/6/24 - 7:24
BHS-164	WF	Room G200 - Left	BJL - 3/5/24 - 23:24	BJL - 3/6/24 - 7:24
BHS-165	WF	Room G200 - Right	BJL - 3/5/24 - 23:24	BJL - 3/6/24 - 7:24
BHS-166	S	Room G215 - South	BJL - 3/5/24 - 23:26	BJL - 3/6/24 - 7:26
BHS-167	S	Room G215 - West Left	BJL - 3/5/24 - 23:26	BJL - 3/6/24 - 7:26
BHS-168	S	Room G215 - West Left Center	BJL - 3/5/24 - 23:26	BJL - 3/6/24 - 7:26
BHS-169	S	Room G215 - West Center	BJL - 3/5/24 - 23:26	BJL - 3/6/24 - 7:26
BHS-170	S	Room G215 - West Right Center	BJL - 3/5/24 - 23:26	BJL - 3/6/24 - 7:26
BHS-171	S	Room G215 - West Right	BJL - 3/5/24 - 23:26	BJL - 3/6/24 - 7:26
BHS-172	S	Room G215 - North	BJL - 3/5/24 - 23:26	BJL - 3/6/24 - 7:26
BHS-173	S	Room G215 - Teacher	BJL - 3/5/24 - 23:26	BJL - 3/6/24 - 7:26
BHS-174	S	Room G216	BJL - 3/5/24 - 23:30	BJL - 3/6/24 - 7:30
BHS-175	S	Room G218 - North	BJL - 3/5/24 - 23:31	BJL - 3/6/24 - 7:31

BF=Bottle Filling B=Bubbler

FW=Filtered Water ICE=Ice Machine



Project Number: J044517.01

Sampling and Reporting Services Building Name: Battle High School Address: 7575 East St. Charles Road Columbia, Missouri

Sample ID	Fixture Type	Location	Flushed By - Date - Time	Sampled By - Date - Time
BHS-176	S	Room G218 - East Left	BJL - 3/5/24 - 23:31	BJL - 3/6/24 - 7:31
BHS-177	S	Room G218 - East Left Center	BJL - 3/5/24 - 23:31	BJL - 3/6/24 - 7:31
BHS-178	S	Room G218 - East Center	BJL - 3/5/24 - 23:31	BJL - 3/6/24 - 7:31
BHS-179	S	Room G218 - Right Center	BJL - 3/5/24 - 23:31	BJL - 3/6/24 - 7:31
BHS-180	S	Room G218 - East Right	BJL - 3/5/24 - 23:31	BJL - 3/6/24 - 7:31
BHS-181	S	Room G218 - South	BJL - 3/5/24 - 23:31	BJL - 3/6/24 - 7:31
BHS-182	S	Room G218 - Teacher	BJL - 3/5/24 - 23:31	BJL - 3/6/24 - 7:31
BHS-183	WF	Room H200 - Left	BJL - 3/5/24 - 23:35	BJL - 3/6/24 - 7:35
BHS-184	WF	Room H200 - Right	BJL - 3/5/24 - 23:35	BJL - 3/6/24 - 7:35
BHS-185	S	Room H215 - South	BJL - 3/5/24 - 23:37	BJL - 3/6/24 - 7:37
BHS-186	S	Room H215 - West Left	BJL - 3/5/24 - 23:37	BJL - 3/6/24 - 7:37
BHS-187	S	Room H215 - West Left Center	BJL - 3/5/24 - 23:37	BJL - 3/6/24 - 7:37
BHS-188	S	Room H215 - West Center	BJL - 3/5/24 - 23:37	BJL - 3/6/24 - 7:37
BHS-189	S	Room H215 - West Right Center	BJL - 3/5/24 - 23:37	BJL - 3/6/24 - 7:37
BHS-190	S	Room H215 - West Right	BJL - 3/5/24 - 23:37	BJL - 3/6/24 - 7:37
BHS-191	S	Room H215 - North	BJL - 3/5/24 - 23:37	BJL - 3/6/24 - 7:37
BHS-192	S	Room H215 - Teacher	BJL - 3/5/24 - 23:37	BJL - 3/6/24 - 7:37
BHS-193	S	Room H216	BJL - 3/5/24 - 23:40	BJL - 3/6/24 - 7:40
BHS-194	S	Room H218 - North	BJL - 3/5/24 - 23:42	BJL - 3/6/24 - 7:42
BHS-195	S	Room H218 - East Left	BJL - 3/5/24 - 23:42	BJL - 3/6/24 - 7:42
BHS-196	S	Room H218 - East Left Center	BJL - 3/5/24 - 23:42	BJL - 3/6/24 - 7:42
BHS-197	S	Room H218 - East Center	BJL - 3/5/24 - 23:42	BJL - 3/6/24 - 7:42
BHS-198	S	Room H218 - East Right Center	BJL - 3/5/24 - 23:42	BJL - 3/6/24 - 7:42
BHS-199	S	Room H218 - East Right	BJL - 3/5/24 - 23:42	BJL - 3/6/24 - 7:42
BHS-200	S	Room H218 - South	BJL - 3/5/24 - 23:42	BJL - 3/6/24 - 7:42

BF=Bottle Filling B=Bubbler

FW=Filtered Water ICE=Ice Machine



Project Number: J044517.01

Sampling and Reporting Services Building Name: Battle High School Address: 7575 East St. Charles Road Columbia, Missouri

Sample ID	Fixture Type	Location	Flushed By - Date - Time	Sampled By - Date - Time
BHS-201	S	Room H218 - Teacher	BJL - 3/5/24 - 23:42	BJL - 3/6/24 - 7:42
BHS-202	BF	Hallway at Room J202	BJL - 3/5/24 - 23:48	BJL - 3/6/24 - 7:48
BHS-203	WF	Hallway at Room J202 - Left	BJL - 3/5/24 - 23:48	BJL - 3/6/24 - 7:48
BHS-204	WF	Hallway at Room J202 - Right	BJL - 3/5/24 - 23:48	BJL - 3/6/24 - 7:48
BHS-205	S	Room J215 - South	BJL - 3/5/24 - 23:51	BJL - 3/6/24 - 7:51
BHS-206	S	Room J215 - West Left	BJL - 3/5/24 - 23:51	BJL - 3/6/24 - 7:51
BHS-207	S	Room J215 - West Left Center	BJL - 3/5/24 - 23:51	BJL - 3/6/24 - 7:51
BHS-208	S	Room J215 - West Center	BJL - 3/5/24 - 23:51	BJL - 3/6/24 - 7:51
BHS-209	S	Room J215 - West Right Center	BJL - 3/5/24 - 23:51	BJL - 3/6/24 - 7:51
BHS-210	S	Room J215 - West Right	BJL - 3/5/24 - 23:51	BJL - 3/6/24 - 7:51
BHS-211	S	Room J215 - North	BJL - 3/5/24 - 23:51	BJL - 3/6/24 - 7:51
BHS-212	S	Room J215 - Teacher	BJL - 3/5/24 - 23:51	BJL - 3/6/24 - 7:51
BHS-213	S	Room J216	BJL - 3/5/24 - 23:55	BJL - 3/6/24 - 7:55
BHS-214	S	Room J218 - North	BJL - 3/5/24 - 23:57	BJL - 3/6/24 - 7:57
BHS-215	S	Room J218 - East Left	BJL - 3/5/24 - 23:57	BJL - 3/6/24 - 7:57
BHS-216	S	Room J218 - East Left Center	BJL - 3/5/24 - 23:57	BJL - 3/6/24 - 7:57
BHS-217	S	Room J218 - East Center	BJL - 3/5/24 - 23:57	BJL - 3/6/24 - 7:57
BHS-218	S	Room J218 - East Right Center	BJL - 3/5/24 - 23:57	BJL - 3/6/24 - 7:57
BHS-219	S	Room J218 - East Right	BJL - 3/5/24 - 23:57	BJL - 3/6/24 - 7:57
BHS-220	S	Room J218 - South	BJL - 3/5/24 - 23:57	BJL - 3/6/24 - 7:57
BHS-221	S	Room J218 - Teacher	BJL - 3/5/24 - 23:57	BJL - 3/6/24 - 7:57
BHS-83-2	S	Room B109 - Dish Wash	N/A*	BJL - 6/26/24 - 9:10
BHS-122-2	S	Room D237 - Food Prep East	BJL - 6/26/24 - 1:20	BJL - 6/26/24 - 9:20
BHS-125-2	S	Room D237 - Dish Wash Center	BJL - 6/26/24 - 1:20	BJL - 6/26/24 - 9:20
BHS-126-2	S	Room D237 Dish Wash - Right	BJL - 6/26/24 - 1:20	BJL - 6/26/24 - 9:20

BF=Bottle FillingFW=Filtered WaterB=BubblerICE=Ice Machine*Outlet was not made available for flushing prior to sampling.



Sampling and Reporting Services Building Name: Battle High School

Project Number: J044517.01

Address: 7575 East St. Charles Road Columbia, Missouri

Flushed By - Date - Time Sample ID Fixture Type Location Sampled By - Date - Time BHS-130-2 S Room D231 - Dish Rinse BJL - 6/26/24 - 1:26 BJL - 6/26/24 - 9:26 BHS-222 Exterior - Press Box Left BJL - 6/26/24 - 1:30 BJL - 6/26/24 - 9:30 WF Exterior - Press Box Left Center BJL - 6/26/24 - 1:30 BJL - 6/26/24 - 9:30 BHS-223 WF Exterior - Press Box Right Center BJL - 6/26/24 - 1:30 BJL - 6/26/24 - 9:30 **BHS-224** WF BHS-225 WF Exterior - Press Box Right BJL - 6/26/24 - 1:30 BJL - 6/26/24 - 9:30 BHS-226 WF **Exterior - Softball Left** N/A* BJL - 6/26/24 - 9:15 N/A* **BHS-227** WF Exterior - Softball Right BJL - 6/26/24 - 9:15

BF=Bottle Filling FW=Filtered Water B=Bubbler ICE=Ice Machine *Outlet was not made available for flushing prior to sampling.



APPENDIX C

DRINKING WATER LABORATORY DATA SHEETS



http://www.teklabinc.com/

March 28, 2024

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

RE: J044517.01



WorkOrder: 24030694

Dear Brad Lohrum:

TEKLAB, INC received 60 samples on 3/8/2024 4:11:00 PM for the analysis presented in the following report.

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

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

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

Sincerely,

Shelly A Hennessy

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



Report Contents

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Client Project: J044517.01

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

This reporting package includes the following:

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



Definitions

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Client Project: J044517.01

Work Order: 24030694

Report Date: 28-Mar-24

Abbr Definition

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



Definitions

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Client Project: J044517.01

Work Order: 24030694

Report Date: 28-Mar-24

Qualifiers

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

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



Case Narrative

http://www.teklabinc.com/

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

Client: Geotechnology, Inc.

Client Project: J044517.01

Cooler Receipt Temp: N/A °C

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



Accreditations

http://www.teklabinc.com/

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

Client: Geotechnology, Inc.

Client Project: J044517.01

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



Laboratory Results

http://www.teklabinc.com/

Work Order: 24030694

Report Date: 28-Mar-24

Client: Geotechnology, Inc.

Client Project: J044517.01

Matrix: DRINKING WATER

Sample ID	Client Sample ID	Certification Qual	RL	Result	Units	DF	Date Analyzed	Date Collected
	, 200.8 R5.4, META	LS BY ICPMS (TOTAL)						
Lead								
24030694-001		NELAP	1.0	< 1.0	µg/L	1	03/27/2024 11:59	03/06/2024 3:32
24030694-002	A CACC-16	NELAP	1.0	1.9	µg/L	1	03/27/2024 12:03	03/06/2024 3:52
24030694-003	A JMS-05	NELAP	1.0	< 1.0	µg/L	1	03/27/2024 12:06	03/06/2024 4:12
24030694-004	A JMS-44	NELAP	1.0	< 1.0	µg/L	1	03/19/2024 9:52	03/06/2024 4:16
24030694-005	A JMS-48	NELAP	1.0	1.7	µg/L	1	03/19/2024 9:56	03/06/2024 4:18
24030694-006	A JMS-49	NELAP	1.0	< 1.0	µg/L	1	03/19/2024 9:59	03/06/2024 4:20
24030694-007	A BHS-01	NELAP	1.0	3.8	µg/L	1	03/19/2024 10:03	03/06/2024 4:46
24030694-008	A BHS-02	NELAP	1.0	1.2	µg/L	1	03/19/2024 10:07	03/06/2024 4:48
24030694-009	A BHS-03	NELAP	1.0	< 1.0	µg/L	1	03/19/2024 10:18	03/06/2024 4:51
24030694-010	A BHS-04	NELAP	1.0	1.2	µg/L	1	03/21/2024 14:06	03/06/2024 4:55
24030694-011	A BHS-05	NELAP	1.0	1.2	µg/L	1	03/19/2024 10:28	03/06/2024 5:00
24030694-012	A BHS-06	NELAP	1.0	1.4	μg/L	1	03/19/2024 10:59	03/06/2024 5:00
24030694-013	A BHS-07	NELAP	1.0	11.4	μg/L	1	03/19/2024 11:03	03/06/2024 5:06
24030694-014	A BHS-08	NELAP	1.0	5.0	μg/L	1	03/19/2024 11:08	03/06/2024 5:10
24030694-015	A BHS-09	NELAP	1.0	3.8	µg/L	1	03/19/2024 11:11	03/06/2024 5:12
24030694-016	A BHS-10	NELAP	1.0	< 1.0	μg/L	1	03/19/2024 11:16	03/06/2024 5:15
24030694-017	A BHS-11	NELAP	1.0	< 1.0	μg/L	1	03/19/2024 11:19	03/06/2024 5:15
24030694-018	A BHS-12	NELAP	1.0	< 1.0	μg/L	1	03/19/2024 11:23	03/06/2024 5:15
24030694-019	A BHS-13	NELAP	1.0	5.0	μg/L	1	03/19/2024 11:34	03/06/2024 5:17
4030694-020	A BHS-14	NELAP	1.0	13.1	μg/L	1	03/19/2024 11:49	03/06/2024 5:17
4030694-021	A BHS-15	NELAP	1.0	9.9	µg/L	1	03/19/2024 11:52	03/06/2024 5:17
4030694-022	A BHS-16	NELAP	1.0	14.4	μg/L	1	03/19/2024 11:56	03/06/2024 5:17
24030694-023	A BHS-17	NELAP	1.0	25.9	µg/L	1	03/19/2024 12:00	03/06/2024 5:17
24030694-024	A BHS-18	NELAP	1.0	5.2	µg/L	1	03/19/2024 12:03	03/06/2024 5:20
24030694-025	A BHS-19	NELAP	1.0	9.4	µg/L	1	03/21/2024 14:10	03/06/2024 5:20
24030694-026	A BHS-20	NELAP	1.0	17.1	µg/L	1	03/19/2024 12:11	03/06/2024 5:20
24030694-027	A BHS-21	NELAP	1.0	16.4	µg/L	1	03/19/2024 12:14	03/06/2024 5:20
24030694-028	A BHS-22	NELAP	1.0	14.6	µg/L	1	03/21/2024 14:13	03/06/2024 5:20
24030694-029	A BHS-23	NELAP	1.0	26.8	µg/L	1	03/19/2024 12:40	03/06/2024 5:20
24030694-030		NELAP	1.0	8.1	µg/L	1	03/19/2024 12:44	03/06/2024 5:20
24030694-031		NELAP	1.0	3.5	μg/L	1	03/19/2024 12:47	03/06/2024 5:25
24030694-032		NELAP	1.0	< 1.0	μg/L	1	03/19/2024 12:51	03/06/2024 5:25
24030694-033		NELAP	1.0	6.5	µg/L	1	03/19/2024 12:55	03/06/2024 5:27
24030694-034		NELAP	1.0	9.3	µg/L	1	03/19/2024 12:58	03/06/2024 5:27
24030694-035		NELAP	1.0	7.3	µg/L	1	03/19/2024 13:02	03/06/2024 5:27
24030694-036		NELAP	1.0	8.1	µg/L	1	03/19/2024 13:06	03/06/2024 5:27
24030694-037		NELAP	1.0	9.3	µg/L	1	03/19/2024 13:09	03/06/2024 5:27
24030694-038		NELAP	1.0	5.7	µg/L	1	03/19/2024 13:24	03/06/2024 5:27
24030694-039		NELAP	1.0	12.5	µg/L	1	03/19/2024 13:35	03/06/2024 5:27
24030694-040		NELAP	1.0	24.1	µg/L	1	03/19/2024 13:39	03/06/2024 5:27
24030694-041		NELAP	1.0	1.2	μg/L	1	03/19/2024 13:42	03/06/2024 5:33
24030694-041/ 24030694-042/		NELAP	1.0	1.2	μg/L	1	03/19/2024 13:46	03/06/2024 5:33
24030694-042/ 24030694-043/		NELAP	1.0	6.6	μg/L	1	03/19/2024 13:50	03/06/2024 5:35
24030694-043/ 24030694-044/		NELAP	1.0		μg/L μg/L	1	03/23/2024 3:48	03/06/2024 5:35
24030694-044/ 24030694-045/		NELAP	1.0	5.1			03/23/2024 3.48	03/06/2024 5:35
				5.8	µg/L	1		
24030694-046			1.0	6.0	µg/L	1	03/19/2024 17:51	03/06/2024 5:35
24030694-047		NELAP	1.0	4.5	µg/L	1	03/19/2024 17:55	03/06/2024 5:35
24030694-048	A BHS-42	NELAP	1.0	5.9	µg/L	1	03/19/2024 18:10	03/06/2024



Laboratory Results

http://www.teklabinc.com/

Work Order: 24030694

Report Date: 28-Mar-24

Client: Geotechnology, Inc.

Client Project: J044517.01

Matrix: DRINKING WATER

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



Receiving Check List

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Client Project: J044517.01

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

Carrier: John Duarte Completed by: On: 08-Mar-24 Nick Reed]	eceived By: WAG Reviewed by: On: 1-Mar-24 H	O Elled Hopkens Ellie Hopkins							
Pages to follow: Chain of custody 6	Extra pages inclu	uded 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 🗌	7							
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 r	nust be detailed	below or on the	COC.							

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

CHAIN OF CUSTODY

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: St. Are these samples known to be involved in litigation? If yes, a surcharge will apply 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							Pr La	ese ab N ent	rve lote Cor	d in s nme		ICE LAB	FIELD			FOI		Southanne	Z		G#					
-	Name/Number	Sa	mple Col			Nam	le		┢				X T		-		NDICA		NAL			1053		—	Τ	-
	4517.01		Brad Lo				Con	aina					Spe	Gro	DW -											
🕅 Standard 🗌	s Requested 1-2 Day (100% Surcharge)	Billing Inst	ructions	- E	HNO3		HCL		» OTHER	Aqueous	Soll	Sludge	Special Waste	Groundwater	Lead E200.8											
Lab Use Only	Sample Identification	Date/Time	Sampled	ES	ωI	Ă	· I	94	77	ler			fē	er	0.8											
1030694-001	SMS-OK	3/6/24	3:32	1)	X				Х											
-062		Negatility and	3:52	1)	X				X											
-003	JMS 05		4:12	1						2	X				Х											
-0614	1 - 44		4:16	1							X				Х						_					
- 005	48		4:18	1)	X				X											
- 006	49		4:20	1)	X				Х											
-007	BHS OI		4:46	1							X			<u> </u>	Х		_						_			└──┃
-008	02		<u>4:48</u>	1							X	_		ļ	Х								_			
- 009	03		4:51	1							X				X			 			_				_	
GIG_	1- 04		4:55	1.)	X				X							Data			<u> </u>	
	Relinquished By		-14		ate/T		* ^		-	1		1		Re	iseiv //	ed By			51	6/0	1	Date/ イミ	51)			
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The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions.

BottleOrder: 80481

pg. 1 of 23 Work order # 24630.94



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

Contact: E-Mail: Are these samples Are these samples Are there any requiring the comm	Geotechnology, LI 11816 Lackland R St. Louis, MO 631 Brad Lohrum blohrum@teamues.com s known to be involved in lit s known to be hazardous? tired reporting limits to be n ent section. Yes Name/Number	oad 46 igation? If yes, a s ☐ Yes X No net on the requeste No)	apply If yes,	pleas	e provi	N Mate	- - - 0	Pre Lal Clie	eser b No ent (ved	in:		LAB	I BL	≞LD	 	FO				NLY	G#	
J04 Result : X Standard	4517.01 s Requested 1-2 Day (100% Surcharge) 3 Day (50% Surcharge)		Brad Loh	rum	ype o	f Cont	1	È	Dri	1	1	Special Waste	Groundwa	DW - Lead E										
Lab Use Only	Sample Identification	Date/Time Sa		╇┉╄╸	S04	MeOH HCL	NaHSO4	i, ii		-		aste	ater	IE200.8							_			
4630694-081 -012	00		5:00 1 + 1 5:06 1							:				X X X									<u> </u>	
-013 -014	07 08 09	5	5:10 1						X	<u>í</u>				× X X									<u> </u>	
-015 -016			5:15 1							:				X X X									†	
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The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions.

BottleOrder: 80481

pg. Z of 23 Work order # 2403004



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 limits in the comm	Address: 11816 Lackland Road Sity / State / Zip St. Louis, MO 63146 St. Louis, MO 63146 Phone: (314) Contact: Brad Lohrum blohrum@teamues.com Fax: e these samples known to be involved in litigation? If yes, a surcharge will apply e these samples known to be hazardous? Yes e there any required reporting limits to be met on the requested analysis?. If yes, plits in the comment section. Yes Project Name/Number Sample Collector's N J044517.01 Brad Lohrum Results Requested Billing Instructions Standard 1-2 Day (100% Surcharge) Other 3 Day (50% Surcharge) ab Use Only Sample Identification Date/Time Sampled BHS 1 5 3/6/24 5.17													Pre Lat	ser No	vec ote: Con	d in s nme	:			BLU FIE	LD			<u>F</u>						¥		
-				Ja	•					5			┝──	-	-				DW -	1		T						T	T	T	Τ	I	
Result	J044517.01 Brad Lohrum Results Requested Billing Instructions # and Type of Constructions Standard 1-2 Day (100% Surcharge) U H													rinki		SIC	pecia	Grout	V - Lead														
						UNPRE	EONH	NaOH	H2SO		NaHSO	OTHER	leous	Drinking Water	Soil	ıdge	Special Waste	Groundwater	ad E200.8														
Lab Use Only	San	ple Identification				ŝ			<u>.</u>		· [ž	Ĺ		÷	-		Ĩ.							<u> </u>			_	4					
4030694-021	BH	515		_	_	4		-		X	-	<u> </u>			X		-	ļ	<u> </u>			_		<u> </u>		<u> </u>	<u> </u>						
-022	Brad Lohrum Phone: (31) Mail: blohrum@teamues.com Fax: (31) Mail: blohrum@teamues.com Fax: (31) hese samples known to be involved in litigation? If yes, a surcharge will apply hese samples known to be hazardous? Yes No here any required reporting limits to be met on the requested analysis?. If yes in the comment section. Yes No Project Name/Number Sample Collector's J044517.01 Brad Lohrum Results Requested Billing Instructions # and T J044517.01 Brad Lohrum Image: sample section in the requested analysis? Image													X	_				X				-					<u> </u>		_	_		<u> </u>
	Tax. Tax. trax. tray. <tr< td=""><td>Ļ</td><td></td><td>_</td><td>_</td><td></td><td></td><td>X</td><td>ļ</td><td>╂</td><td> </td><td>_</td><td><u> </u></td><td></td><td>+</td><td></td><td>+</td><td></td><td>+</td><td>–</td><td><u> </u></td><td>\square</td></tr<>												Ļ		_	_			X	ļ	╂	 	_	<u> </u>		+		+		+	–	<u> </u>	\square
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BottleOrder: 80481

pg. 3 of 23 Work order # 24030094



pg. 4 of 23 Work order # 24030 94

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

Contact: E-Mail: Are these samples Are these samples Are there any requ	known to be hazar	Iand Road AO 63146 com ed in litigation? If yes dous? Yes X to be met on the requ	No	will a	pply		7-744 Yes	X	No			ser No	ved otes	l in:		LAB) BLU FIEL	D	4.		E			USE	C ON		₩		
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BottleOrder: 80481



24030694 pg. 5 of 23 Work order # 2403694 TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005

Client:	Geotechr	nology, LL(С									5	San	ple	s o	n:		ICE		BLUE	E ICE	NO IO)E			0	С	LTG	#	
Address:	11816 La	ckland Ro	ad									F	^o re:	serv	/ed	in:		LAB	*	FIELI	D		<u>F</u> (<u>or L</u>	AB	USE	ONI	<u> </u>		
City / State	/ Zip St. Louis	, MO 6314	46									L	.ab	No	tes															
Contact:	Brad Lohrum			Phor	ie:	(3	14)	997-1	7440																					
	blohrum@teamue	es.com		Fax:								С	lier	nt C	om	me	nts	:												
Are these samples	known to be invo	lved in litic	ation? If	ves, a surcharg	e will	appl	v		/es	X	No																			
Are these samples	known to be haza	ardous?	Yes	X No																										
Are there any requi				requested analy	sis?.	lf ye	s, pl	ease	prov	ide																				
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-				Brad I					-									Ū							1					
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BottleOrder: 80481



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

Client:		Geotechnology, LL	LC										Sar	npl	es	on:		ICE	<u>8</u>	BLU	e ice		NO I	CE	_		0	,C	LTG	#		
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City / State	/ Zip	St. Louis, MO 631	146										Lab) No	otes	5																
Contact:	Brad L	ohrum		Phone	9:	(3	14) 9	97-7	440																							
E-Mail:	blohrur	m@teamues.com		Fax:								6	lie	nt C	Con	nme	ent	s:														
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BottleOrder: 80481

pg. 6 of 23 Work order # 24030694





http://www.teklabinc.com/

April 01, 2024

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

RE: J044517.01



WorkOrder: 24030696

Dear Brad Lohrum:

TEKLAB, INC received 60 samples on 3/8/2024 4:11:00 PM for the analysis presented in the following report.

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

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

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

Sincerely,

Elizabeth & Hurley

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



Report Contents

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Client Project: J044517.01

Work Order: 24030696 Report Date: 01-Apr-24

This reporting package includes the following:

1
2
3
5
6
7
9
Appended



Definitions

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Client Project: J044517.01

Work Order: 24030696

Report Date: 01-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 Project: J044517.01

Definitions

http://www.teklabinc.com/

Work Order: 24030696

Report Date: 01-Apr-24

Qualifiers

- Unknown hydrocarbon

Client: Geotechnology, Inc.

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

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



Case Narrative

http://www.teklabinc.com/

Work Order: 24030696 Report Date: 01-Apr-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		



Client: Geotechnology, Inc.

Accreditations

http://www.teklabinc.com/

Work Order: 24030696 Report Date: 01-Apr-24

Client Project: J044517.01

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



Laboratory Results

http://www.teklabinc.com/

Work Order: 24030696

Report Date: 01-Apr-24

Client: Geotechnology, Inc.

Client Project: J044517.01

Matrix: DRINKING WATER

Sample ID	Client Sample ID	Certification Qual	RL	Result	Units	DF	Date Analyzed	Date Collected
EPA 600 4.1.4	I, 200.8 R5.4, META	LS BY ICPMS (TOTAL)						
Lead								
24030696-001	A BHS-55	NELAP	1.0	< 1.0	µg/L	1	03/19/2024 19:23	03/06/2024 5:48
24030696-002	A BHS-56	NELAP	1.0	< 1.0	μg/L	1	03/19/2024 19:27	03/06/2024 5:48
24030696-003	A BHS-57	NELAP	1.0	9.7	µg/L	1	03/19/2024 19:30	03/06/2024 5:50
24030696-004	A BHS-58	NELAP	1.0	4.1	μg/L	1	03/19/2024 19:45	03/06/2024 5:50
24030696-005	A BHS-59	NELAP	1.0	7.9	µg/L	1	03/19/2024 19:49	03/06/2024 5:50
24030696-006	A BHS-60	NELAP	1.0	5.8	µg/L	1	03/19/2024 19:52	03/06/2024 5:50
24030696-007	A BHS-61	NELAP	1.0	6.9	µg/L	1	03/19/2024 19:56	03/06/2024 5:50
24030696-008	A BHS-62	NELAP	1.0	5.1	µg/L	1	03/19/2024 20:00	03/06/2024 5:50
24030696-009	A BHS-63	NELAP	1.0	3.7	µg/L	1	03/19/2024 20:11	03/06/2024 5:50
24030696-010	A BHS-64	NELAP	1.0	< 1.0	µg/L	1	03/19/2024 20:14	03/06/2024 5:56
24030696-011	A BHS-65	NELAP	1.0	1.2	µg/L	1	03/19/2024 20:18	03/06/2024 5:56
24030696-012	A BHS-66	NELAP	1.0	< 1.0	µg/L	1	03/19/2024 20:33	03/06/2024 5:56
24030696-013	A BHS-67	NELAP	1.0	< 1.0	µg/L	1	03/19/2024 20:36	03/06/2024 5:56
24030696-014	A BHS-68	NELAP	1.0	2.6	µg/L	1	03/19/2024 20:40	03/06/2024 5:56
24030696-015	A BHS-69	NELAP	1.0	1.2	μg/L	1	03/19/2024 20:44	03/06/2024 5:56
24030696-016	A BHS-70	NELAP	1.0	< 1.0	μg/L	1	03/19/2024 20:47	03/06/2024 6:00
24030696-017	A BHS-71	NELAP	1.0	< 1.0	μg/L	1	03/19/2024 20:51	03/06/2024 6:00
24030696-018	A BHS-72	NELAP	1.0	< 1.0	μg/L	1	03/19/2024 20:55	03/06/2024 6:03
24030696-019		NELAP	1.0	< 1.0	μg/L	1	03/19/2024 21:13	03/06/2024 6:03
24030696-019		NELAP	1.0	1.4	μg/L	1	03/21/2024 14:50	03/06/2024 6:03
24030696-020		NELAP	1.0	< 1.0	μg/L	1	03/28/2024 21:58	03/06/2024 6:07
24030696-021		NELAP	1.0	< 1.0	μg/L	1	03/19/2024 21:31	03/06/2024 6:07
24030696-022		NELAP	1.0	< 1.0	μg/L	1	03/19/2024 21:35	03/06/2024 6:08
24030696-023		NELAP	1.0	< 1.0	μg/L	1	03/19/2024 21:39	03/06/2024 6:11
24030696-024	A BHS-78	NELAP	1.0	< 1.0	μg/L	1	03/19/2024 13:53	03/06/2024 6:11
24030696-025	A BHS-79	NELAP	1.0	1.5	μg/L	1	03/19/2024 13:57	03/06/2024 6:13
24030696-026		NELAP	1.0	1.5	μg/L	1	03/19/2024 14:12	03/06/2024 6:13
24030696-027		NELAP	1.0	9.0	µg/L	1	03/19/2024 14:15	03/06/2024 6:15
24030696-028		NELAP	1.0	< 1.0	μg/L	1	03/19/2024 14:19	03/06/2024 6:15
24030696-029		NELAP	1.0	11.9	µg/L	1	03/19/2024 14:30	03/06/2024 6:21
24030696-030		NELAP	1.0	2.2	μg/L	1	03/19/2024 14:34	03/06/2024 6:21
24030696-031		NELAP	1.0	< 1.0	μg/L	1	03/19/2024 14:37	03/06/2024 6:24
24030696-032		NELAP	1.0	< 1.0	μg/L	1	03/19/2024 14:41	03/06/2024 6:24
24030696-033		NELAP	1.0	4.2	μg/L	1	03/19/2024 14:45	03/06/2024 6:28
24030696-034		NELAP	1.0	2.5	μg/L	1	03/19/2024 14:59	03/06/2024 6:28
24030696-035		NELAP	1.0	3.3	μg/L	1	03/19/2024 15:03	03/06/2024 6:28
24030696-036		NELAP	1.0	3.5	μg/L	1	03/19/2024 15:07	03/06/2024 6:28
24030696-037		NELAP	1.0	4.2	μg/L	1	03/19/2024 15:10	03/06/2024 6:32
24030696-038		NELAP	1.0	2.6	μg/L	1	03/19/2024 15:14	03/06/2024 6:32
24030696-039		NELAP	1.0	3.5	μg/L	1	03/19/2024 15:25	03/06/2024 6:32
24030696-040		NELAP	1.0	2.8	μg/L	1	03/19/2024 15:29	03/06/2024 6:32
24030696-041		NELAP	1.0	4.8	µg/L	1	03/19/2024 15:32	03/06/2024 6:35
24030696-042		NELAP	1.0	4.4	μg/L	1	03/19/2024 15:47	03/06/2024 6:35
24030696-043		NELAP	1.0	4.6	µg/L	1	03/19/2024 15:51	03/06/2024 6:35
24030696-044		NELAP	1.0	3.7	μg/L	1	03/19/2024 15:54	03/06/2024 6:35
24030696-045		NELAP	1.0	< 1.0	μg/L	1	03/19/2024 15:58	03/06/2024 6:37
24030696-046		NELAP	1.0	< 1.0	μg/L	1	03/19/2024 16:02	03/06/2024 6:37
24030696-047		NELAP	1.0	5.6	μg/L	1	03/19/2024 16:05	03/06/2024 6:39
					1 3			



Laboratory Results

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Client Project: J044517.01

Matrix: DRINKING WATER

Sample ID	Client Sample ID	Certification Qual	RL	Result	Units	DF	Date Analyzed	Date Collected
EPA 600 4.1.4	4, 200.8 R5.4, META	LS BY ICPMS (TOTAL)						
Lead								
24030696-048	A BHS-102	NELAP	1.0	3.3	µg/L	1	03/19/2024 16:09	03/06/2024 6:39
24030696-049	A BHS-103	NELAP	1.0	3.0	µg/L	1	03/19/2024 16:20	03/06/2024 6:39
24030696-050	A BHS-104	NELAP	1.0	4.9	µg/L	1	03/19/2024 16:35	03/06/2024 6:39
24030696-051	A BHS-105	NELAP	1.0	4.6	µg/L	1	03/19/2024 16:38	03/06/2024 6:42
24030696-052	A BHS-106	NELAP	1.0	5.0	µg/L	1	03/19/2024 16:42	03/06/2024 6:42
24030696-053	A BHS-107	NELAP	1.0	9.0	µg/L	1	03/19/2024 16:46	03/06/2024 6:42
24030696-054	A BHS-108	NELAP	1.0	3.3	µg/L	1	03/19/2024 16:49	03/06/2024 6:42
24030696-055	A BHS-109	NELAP	1.0	1.5	µg/L	1	03/19/2024 16:53	03/06/2024 6:44
24030696-056	A BHS-110	NELAP	1.0	1.4	µg/L	1	03/19/2024 16:57	03/06/2024 6:44
24030696-057	A BHS-111	NELAP	1.0	5.2	µg/L	1	03/19/2024 17:00	03/06/2024 6:44
24030696-058	A BHS-112	NELAP	1.0	< 1.0	µg/L	1	03/19/2024 17:04	03/06/2024 6:49
24030696-059	A BHS-113	NELAP	1.0	< 1.0	µg/L	1	03/19/2024 17:26	03/06/2024 6:49
24030696-060	A BHS-114	NELAP	1.0	< 1.0	µg/L	1	03/19/2024 17:29	03/06/2024 6:51

Report Date: 01-Apr-24



Receiving Check List

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Client Project: J044517.01

Work Order: 24030696 Report Date: 01-Apr-24

Carrier: John Duarte Completed by: On: 08-Mar-24 Lindsey Maddox	R	eceived By: WA Reviewed by: On: L-Mar-24	0 TILLE Hopi Ellie Hopkins	cens
Pages to follow:Chain of custody6Shipping container/cooler in good condition?Type of thermal preservation?Chain of custody present?Chain of custody signed when relinquished and received?Chain of custody agrees with sample labels?Samples in proper container/bottle?	Extra pages inclus Yes V None V Yes V Yes V Yes V Yes V	ded 0 No 1 Ice 1 No 1 No 1 No 1 No 1 No 1	Not Present Blue Ice] Temp °C NA] Dry Ice □
Sample containers intact? Sufficient sample volume for indicated test? All samples received within holding time? Reported field parameters measured: Container/Temp Blank temperature in compliance? When thermal preservation is required, samples are compliant	Yes ✔ Yes ✔ Yes ✔ Field ↓ Yes ✔	No No No Lab No Ure between	NA 🗹	9
0.1°C - 6.0°C, or when samples are received on ice the same Water – at least one vial per sample has zero headspace?	e day as collected. Yes	No 🗔	No VOA vials 🗸]
Water - TOX containers have zero headspace?	Yes 🗌	No	No TOX containers]
Water - pH acceptable upon receipt?	Yes 🗹	No 🗌	NA 🗌]
NPDES/CWA TCN interferences checked/treated in the field?	Yes 🗌	No 🗌	NA 🗹]
Any No responses n	nust be detailed t	pelow or on the	COC.	

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

24030696 pg. 7 of 23 Work order #<u>24030699</u>

CHAIN OF CUSTODY

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

Are these sample Are there any req limits in the comm	Brad blohn s know s know uired re ent se	Lohrum um@teamues.com m to be involved in liti m to be hazardous? eporting limits to be m ction. Yes X	ad 46 igation? II	N 🕅 reques	lo sted analys	will is?.	apply	/ s, pl	lease	e prov	X	No	F L C	Pres _ab	ser No nt C	ved otes Com	in S	:) 			BLU	D			E		Vireseus Vireseus				G#		
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Result X Standard Other														Drinking Water	Soil	Sludge	Special Waste	oundwate	Lead E200.8														
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BottleOrder: 80481



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

Client:	ay a si ay	Geotechnology, Ll	_C											Sar	npl	es	on:	78	ICE	5% }}	BLU	E ICE	2	NO I	CE				'C	LTG	#]
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City / State	/ Zip	St. Louis, MO 631	46											Lat	o No	ote	s																
Contact:	Brad Lo	hrum			Phone	e:	(3	14) 9	997-	7440																							
E-Mail:	blohrum	n@teamues.com			Fax:								C	lie	nt (Con	nme	ent	s:													-	
Are these samples	s known	to be involved in liti	gation?	lfyes, a	surcharge	will	apply	,	<u>ر</u> []	(es	X	No																					
		to be hazardous?				· •	17 .																										
Are there any requirements in the common	ired rep ent sect	orting limits to be m ion. 🗌 Yes 🕅	iet on ti No	ne reques	ted analys	157.	If yes	s, pk	ease	prov	lide																						
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BottleOrder: 80481

24030696 pg. 8 of 23 Work order # 24030696



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

Contact: E-Mail: Are these sample Are these sample Are there any req limits in the com	B b es k es k quin mer	Zip rad Lol lohrum known t known t ed repo nt sectio	@teamues.com o be involved in li o be hazardous? orting limits to be r on. Yes 2	igatior	es 🛛 the regu	No lested analys	will is?.	apply	/ s, pl	eas		×	n No	_	Pr La	res ab I ent	erva Nota t Co	ed in es mm	n: [<u> </u>	AB		BLU FIEL		 	<u>F</u>					ONL	<u>Y</u>	¥		· · · · · ·
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BottleOrder: 80481

pg. 9 of z^3 Work order # 2403069



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	Geotechnology, LL 11816 Lackland Ro / Zip St. Louis, MO 631 Brad Lohrum blohrum@teamues.com known to be involved in liti known to be hazardous? ired reporting limits to be m	igation? If yes, a surchary	ge will a	apply	, [97-744] Yes	Ď				ser No	vec	l in:		LAB	BLUE ICE	NO NO		OR L	<u>.AB l</u>	°(LTG# Y		
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BottleOrder: 80481

pg. 10 of 73 Work order # 24030696



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

Client:	Geotechnology, Ll	_C										San	nple	es c	on:	38	ICE) BLU	E ICE	355	NO I	CE			Ċ	°c	LTG	#		<u></u>
Address:	11816 Lackland R	oad											-] FIEL						AB	USE	E ON	LY			
	/ Zip St. Louis, MO 63	46								_			No			. —															
Contact:	Brad Lohrum		Phone	<u>e:</u>	(3	14)	997-7	440		_	1	Lav			•																
E-Mail:	blohrum@teamues.com		_ Fax:		_							lior	nt C	om	me	nte														استنساس ا	
Are these samples	s known to be involved in lit	igation? If yes	a curobarga	witt	annlı	,	[] Y	20	X	No	-	AICI	πv	VII	11116	22763	2.														
	s known to be hazardous?			AAHI	գիիլյ	<i>,</i>	ا ا	50	23	NO																					
Are there any requ	ired reporting limits to be n	net on the requ	ested analys	is?.	lf yes	s, pl	ease	prov	ide																						
	ent section. Yes	· Carlor and a constraint of																													
Project I	Name/Number	S	ample Col	llec	tor	s N	ame					N T	ΙΑΤ	RL	X				T	INI	DICA	TE /	ANA		IS RI	EQU	JEST	ED]
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BottleOrder: 80481

pg. 11 of 23 Work order #24030696



240306alo pg. [Z of Z3 Work order<u>24403069</u>4 TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005

Contact: E-Mail: Are these sample: Are these sample: Are there any requiring in the comm	Brad Lo blohrun s known s known uired rep eent sect	to be involved in lit to be hazardous? orting limits to be n ion. Yes	toad 146 igation? If yes Yes X net on the requ No	No Jested analys	will is?.	apply	/ s, pl		/es : pro	X	No		Pre Lab	ser No	vec ote: Con	d in s nme	X	LAE		BLL FIE	LD			F			USE		<u>LY</u>	#	
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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





http://www.teklabinc.com/

March 28, 2024

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

RE: J044517.01



WorkOrder: 24030697

Dear Brad Lohrum:

TEKLAB, INC received 60 samples on 3/8/2024 4:11:00 PM for the analysis presented in the following report.

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

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

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

Sincerely,

Shelly A Hennessy

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



Report Contents

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Client Project: J044517.01

Work Order: 24030697 Report Date: 28-Mar-24

This reporting package includes the following:

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



Definitions

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Client Project: J044517.01

Work Order: 24030697

Report Date: 28-Mar-24

Abbr Definition

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



Definitions

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Client Project: J044517.01

Work Order: 24030697

Report Date: 28-Mar-24

Qualifiers

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

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



Case Narrative

http://www.teklabinc.com/

Work Order: 24030697 Report Date: 28-Mar-24

Client: Geotechnology, Inc.

Client Project: J044517.01

Cooler Receipt Temp: N/A °C

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



Client: Geotechnology, Inc.

Accreditations

http://www.teklabinc.com/

Work Order: 24030697 Report Date: 28-Mar-24

Client Project: J044517.01

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



Laboratory Results

http://www.teklabinc.com/

Work Order: 24030697

Report Date: 28-Mar-24

Client: Geotechnology, Inc.

Client Project: J044517.01

Matrix: DRINKING WATER

Sample ID	Client Sample ID	Certification Qual	RL	Result	Units	DF	Date Analyzed	Date Collected
EPA 600 4.1.4	, 200.8 R5.4, META	LS BY ICPMS (TOTAL)						
Lead								
24030697-001	A BHS-115	NELAP	1.0	< 1.0	µg/L	1	03/19/2024 17:33	03/06/2024 6:51
24030697-002	A BHS-116	NELAP	1.0	< 1.0	µg/L	1	03/19/2024 17:37	03/06/2024 6:51
24030697-003	A BHS-117	NELAP	1.0	1.1	µg/L	1	03/19/2024 17:40	03/06/2024 6:55
24030697-004	A BHS-118	NELAP	1.0	1.1	µg/L	1	03/23/2024 5:59	03/06/2024 6:55
24030697-005	A BHS-119	NELAP	1.0	< 1.0	µg/L	1	03/23/2024 6:03	03/06/2024 6:55
24030697-006	A BHS-120	NELAP	1.0	< 1.0	µg/L	1	03/23/2024 6:06	03/06/2024 6:55
24030697-007	A BHS-121	NELAP	1.0	< 1.0	µg/L	1	03/23/2024 6:10	03/06/2024 6:55
24030697-008	A BHS-128	NELAP	1.0	4.2	µg/L	1	03/23/2024 6:14	03/06/2024 7:04
24030697-009	A BHS-129	NELAP	1.0	1.4	µg/L	1	03/23/2024 6:25	03/06/2024 7:04
24030697-010	A BHS-130	NELAP	5.0	8.1	µg/L	10	03/23/2024 6:40	03/06/2024 7:04
24030697-011	A BHS-131	NELAP	1.0	< 1.0	µg/L	1	03/23/2024 6:44	03/06/2024 7:04
24030697-012	A BHS-132	NELAP	1.0	< 1.0	µg/L	1	03/23/2024 6:48	03/06/2024 7:04
24030697-013	A BHS-133	NELAP	1.0	1.0	µg/L	1	03/23/2024 6:51	03/06/2024 7:04
24030697-014	A BHS-134	NELAP	1.0	2.7	µg/L	1	03/23/2024 6:55	03/06/2024 7:04
24030697-015	A BHS-135	NELAP	1.0	< 1.0	µg/L	1	03/23/2024 6:59	03/06/2024 7:04
24030697-016	A BHS-136	NELAP	1.0	35.7	µg/L	1	03/23/2024 7:03	03/06/2024 7:04
24030697-017	A BHS-137	NELAP	1.0	1.0	µg/L	5	03/22/2024 23:07	03/06/2024 7:07
24030697-018	A BHS-138	NELAP	1.0	1.5	µg/L	5	03/23/2024 0:00	03/06/2024 7:08
24030697-019	A BHS-139	NELAP	1.0	< 1.0	µg/L	1	03/23/2024 7:06	03/06/2024 7:08
24030697-020	A BHS-140	NELAP	1.0	2.5	µg/L	1	03/27/2024 12:17	03/06/2024 7:10
24030697-021	A BHS-141	NELAP	1.0	< 1.0	µg/L	1	03/23/2024 7:33	03/06/2024 7:10
24030697-022	A BHS-142	NELAP	1.0	7.8	µg/L	1	03/23/2024 7:36	03/06/2024 7:10
24030697-023	A BHS-143	NELAP	1.0	10.0	µg/L	5	03/25/2024 12:34	03/06/2024 7:10
24030697-024	A BHS-144	NELAP	1.0	< 1.0	µg/L	1	03/20/2024 9:22	03/06/2024 7:14
24030697-025	A BHS-145	NELAP	1.0	< 1.0	µg/L	1	03/20/2024 9:25	03/06/2024 7:14
24030697-026	A BHS-146	NELAP	1.0	7.5	µg/L	1	03/20/2024 9:29	03/06/2024 7:15
24030697-027	A BHS-147	NELAP	1.0	7.5	µg/L	1	03/20/2024 9:33	03/06/2024 7:15
24030697-028	A BHS-148	NELAP	1.0	6.5	µg/L	1	03/20/2024 9:36	03/06/2024 7:15
24030697-029	A BHS-149	NELAP	1.0	6.9	µg/L	1	03/20/2024 9:47	03/06/2024 7:15
24030697-030	A BHS-150	NELAP	1.0	7.5	µg/L	1	03/20/2024 9:51	03/06/2024 7:15
24030697-031	A BHS-151	NELAP	1.0	7.8	µg/L	1	03/20/2024 9:54	03/06/2024 7:15
24030697-032	A BHS-152	NELAP	1.0	5.8	µg/L	1	03/20/2024 10:09	03/06/2024 7:15
24030697-033	A BHS-153	NELAP	1.0	9.1	µg/L	1	03/20/2024 10:13	03/06/2024 7:15
24030697-034	A BHS-154	NELAP	1.0	9.8	µg/L	1	03/20/2024 10:16	03/06/2024 7:18
24030697-035	A BHS-155	NELAP	1.0	6.9	µg/L	1	03/20/2024 10:20	03/06/2024 7:20
24030697-036	A BHS-156	NELAP	1.0	10.7	µg/L	1	03/20/2024 10:24	03/06/2024 7:20
24030697-037	A BHS-157	NELAP	1.0	12.9	µg/L	1	03/20/2024 10:27	03/06/2024 7:20
24030697-038	A BHS-158	NELAP	1.0	9.0	µg/L	1	03/26/2024 19:02	03/06/2024 7:20
24030697-039	A BHS-159	NELAP	1.0	9.8	µg/L	1	03/20/2024 10:42	03/06/2024 7:20
24030697-040	A BHS-160	NELAP	1.0	5.7	µg/L	1	03/20/2024 10:57	03/06/2024 7:20
24030697-041	A BHS-161	NELAP	1.0	3.9	µg/L	1	03/20/2024 11:01	03/06/2024 7:20
24030697-042	A BHS-162	NELAP	1.0	68.8	µg/L	5	03/25/2024 12:22	03/06/2024 7:20
24030697-043	A BHS-163	NELAP	1.0	< 1.0	µg/L	1	03/20/2024 11:04	03/06/2024 7:24
24030697-044	A BHS-164	NELAP	1.0	< 1.0	µg/L	1	03/20/2024 11:08	03/06/2024 7:24
24030697-045	A BHS-165	NELAP	1.0	< 1.0	µg/L	1	03/20/2024 11:11	03/06/2024 7:24
24030697-046	A BHS-166	NELAP	1.0	7.0	µg/L	1	03/20/2024 11:15	03/06/2024 7:26
24030697-047	A BHS-167	NELAP	1.0	17.0	µg/L	1	03/20/2024 11:19	03/06/2024 7:26
24030697-048	A BHS-168	NELAP	1.0	7.9	µg/L	1	03/20/2024 11:22	03/06/2024 7:26



Laboratory Results

http://www.teklabinc.com/

Work Order: 24030697

Report Date: 28-Mar-24

Client: Geotechnology, Inc.

Client Project: J044517.01

Matrix: DRINKING WATER

Sample ID	Client Sample ID	Certification Qual	RL	Result	Units	DF	Date Analyzed	Date Collected
EPA 600 4.1.4	4, 200.8 R5.4, META	LS BY ICPMS (TOTAL)						
Lead								
24030697-049	A BHS-169	NELAP	1.0	10.6	µg/L	1	03/20/2024 11:45	03/06/2024 7:26
24030697-050	A BHS-170	NELAP	1.0	8.5	µg/L	1	03/20/2024 11:57	03/06/2024 7:26
24030697-051	A BHS-171	NELAP	1.0	16.6	µg/L	1	03/26/2024 19:13	03/06/2024 7:26
24030697-052	A BHS-172	NELAP	1.0	10.7	µg/L	1	03/20/2024 12:04	03/06/2024 7:26
24030697-053	A BHS-173	NELAP	1.0	8.8	µg/L	1	03/20/2024 12:08	03/06/2024 7:26
24030697-054	A BHS-174	NELAP	1.0	4.2	µg/L	1	03/20/2024 12:11	03/06/2024 7:30
24030697-055	A BHS-175	NELAP	1.0	5.3	µg/L	1	03/20/2024 12:15	03/06/2024 7:31
24030697-056	A BHS-176	NELAP	1.0	7.6	µg/L	1	03/20/2024 12:19	03/06/2024 7:31
24030697-057	A BHS-177	NELAP	1.0	7.6	µg/L	1	03/20/2024 12:22	03/06/2024 7:31
24030697-058	A BHS-178	NELAP	1.0	7.2	µg/L	1	03/20/2024 12:26	03/06/2024 7:31
24030697-059	A BHS-179	NELAP	1.0	4.8	µg/L	1	03/20/2024 12:48	03/06/2024 7:31
24030697-060	A BHS-180	NELAP	1.0	8.0	µg/L	1	03/20/2024 12:52	03/06/2024 7:31



Receiving Check List

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Client Project: J044517.01

Work Order: 24030697 Report Date: 28-Mar-24

Carrier: John Duarte Completed by: On: 08-Mar-24 Nick Reed	R	ceived By: WAC deviewed by: On: -Mar-24 E) FILLO Hopke Ellie Hopkins	nd
Shipping container/cooler in good condition? Type of thermal preservation?	Extra pages inclue Yes ♥ None ♥	No 🗌 Ice 📃	Not Present Blue Ice	Temp °C N/A Dry Ice
Chain of custody present? Chain of custody signed when relinquished and received? Chain of custody agrees with sample labels? Samples in proper container/bottle?	Yes ✔ Yes ✔ Yes ✔ Yes ✔	No No No		
Sample containers intact? Sufficient sample volume for indicated test? All samples received within holding time? Reported field parameters measured:	Yes ✔ Yes ✔ Yes ✔ Field □	No No Lab	NA 🔽	
Container/Temp Blank temperature in compliance? When thermal preservation is required, samples are compliant 0.1°C - 6.0°C, or when samples are received on ice the same Water – at least one vial per sample has zero headspace?	,		No VOA vials ✔	
Water - TOX containers have zero headspace?	Yes		No TOX containers \checkmark	
Water - pH acceptable upon receipt?	Yes 🗸		NA	
NPDES/CWA TCN interferences checked/treated in the field?	Yes	No 🗌	NA 🗹	
Any No responses mu	ust be detailed t	elow or on the	coc.	

Samples were checked for turbidity and then preserved with nitric acid upon arrival in the laboratory. - ehopkins - 3/11/2024 10:04:07 AM

CHAIN OF CUSTODY	pg. 13	of 23 Work order #240300
TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone:	(618) 344	-1004 - Fax: (618) 344-1005

Are these sample: Are there any requiring the common sector of the commo	Geotechnology, L 11816 Lackland F / Zip St. Louis, MO 63 Brad Lohrum blohrum@teamues.com s known to be involved in lift s known to be hazardous? uired reporting limits to be r tent section. Yes X Name/Number	Road 146 tigation? If yes, Yes X net on the requ No	No lested analys	will a is?. If	pply yes,	pleas	-	X	No		Pre Lab	ser No	vec otes Com	l in	·汝	LAB] BLU	D	<u></u>			Contract. N Records: y records: y	s avera	USE			#		
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And the second se	4517.01 s Requested	Billing Ins	Brad Lo			vpe o	f Cor	taine	ers	Þ	Drink			Spe	Gro	DW -														
X Standard	1-2 Day (100% Surcharge)	Drining ins			1	1	HCL	-	OTHE	Aqueous	Drinking Water	Soil	Sludge	Special Waste	Groundwater	Lead E200,8						:								
Lab Use Only	Sample Identification		^		4	~		ē,			ie I	ïr	0,8		•															
1030694-001	BHS-115	3/6/24	6:51	1					ļ		X					Х														
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-009	129			1				_			X					Х											\square			
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																	<u> </u>													

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

BottleOrder: 80481



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

Client:	Geotechnology, Ll	LC									Sa	mp	les	on:	1	ICE	B	LUE IC	;E		CE			°c	2	LTG#		
Address:	11816 Lackland R										Pr	esei	rve	d in:		LAB	🚿 F	ELD			<u>F</u>	<u>OR L</u>	<u>.AB I</u>	USE	ONL	<u>.Y</u>		
City / State	/ Zip St. Louis, MO 631	146								_	La	b N	ote	s														
Contact:	Brad Lohrum		Phone	:	(314	4) 997	7-744	0																				
E-Mail:	blohrum@teamues.com		Fax:							_	Cli	ent	Con	nme	ents	:												
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BottleOrder: 80481



pg. 14 of 23 Work order # 204300

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

Contact: E-Mail:	Brad Lo blohrum s known s known aired rep	@teamues.com to be involved in lit to be hazardous? orting limits to be n	igation? If yes,	No	will	apply	/	997-7	es	X	No		Pre Lab		/ed	l in:				BLUI			NOIO		ORL	.AB		C ON		;;;	
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The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions.

BottleOrder: 80481

pg. 15 of 23 Work order # 204301



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

Are these samples Are there any requ	Geotechnology, L 11816 Lackland R St. Louis, MO 63 Brad Lohrum blohrum@teamues.com s known to be involved in lit s known to be hazardous? uired reporting limits to be n ient section. Yes X	Road 146 igation? If yes, i Yes X net on the reque	No	will a	pply		7-744 Yes	Ā	No		Pre Lat	-	/ed tes	l in:	• (%)	LAB		BLUE FIELD		8 N			<u></u>	∖B U	_ °C	; ONL		¥		
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BottleOrder: 80481



pg. 16 of 23 Work order # 24030694

97

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

Client: Address: City / State Contact: E-Mail: Are these samples Are these samples	Brad Lo blohrun s known s known	@teamues.com to be involved in li to be hazardous? orting limits to be r	Road 146 tigation? If ye Yes met on the re	X No	will	apply		[] Y	es	X	No	l l c	Pre Lab	ser No	vec ote:	d in	:	LAB					NO IO			AB		°C E ONI	LTG <u>LY</u>	#	~~	
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BottleOrder: 80481

pg. $|7 \text{ of } \mathbb{Z}^3 \text{ Work order } \# 240300$



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 required limits in the comm	Geotechnology, L 11816 Lackland R St. Louis, MO 63 Brad Lohrum blohrum@teamues.com s known to be involved in lift s known to be hazardous? tired reporting limits to be r ent section. Yes	toad 146 tigation? If yes, a Yes X M net on the reques	lo sted analys	will ap	oply yes, j	pleas		X	No	F L C	ore: _ab	serv No nt C	ved tes om	me	84	LAB		BLU FIEL	D		E			USE		<u>.Y</u>	#	
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BottleOrder: 80481

pg. 18 of 23 Work order # 24030





http://www.teklabinc.com/

March 28, 2024

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

RE: J044517.01



WorkOrder: 24030698

Dear Brad Lohrum:

TEKLAB, INC received 41 samples on 3/8/2024 4:11:00 PM for the analysis presented in the following report.

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

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

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

Sincerely,

Shelly A Hennessy

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



Report Contents

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Client Project: J044517.01

Work Order: 24030698 Report Date: 28-Mar-24

This reporting package includes the following:

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



Definitions

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Client Project: J044517.01

Work Order: 24030698

Report Date: 28-Mar-24

Abbr Definition

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



Definitions

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Client Project: J044517.01

Work Order: 24030698

Report Date: 28-Mar-24

Qualifiers

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

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



Case Narrative

http://www.teklabinc.com/

Work Order: 24030698 Report Date: 28-Mar-24

Client: Geotechnology, Inc.

Client Project: J044517.01

Cooler Receipt Temp: N/A °C

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



Accreditations

http://www.teklabinc.com/

Work Order: 24030698 Report Date: 28-Mar-24

Client: Geotechnology, Inc.

Client Project: J044517.01

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



Laboratory Results

http://www.teklabinc.com/

Work Order: 24030698

Report Date: 28-Mar-24

Client: Geotechnology, Inc.

Client Project: J044517.01

Matrix: DRINKING WATER

Sample ID	Client Sample ID	Certification Qual	RL	Result	Units	DF	Date Analyzed	Date Collected
EPA 600 4.1.4	4, 200.8 R5.4, META	LS BY ICPMS (TOTAL)						
Lead								
24030698-001	A BHS-181	NELAP	1.0	3.0	µg/L	1	03/20/2024 12:55	03/06/2024 7:31
24030698-002	A BHS-182	NELAP	1.0	17.2	µg/L	1	03/20/2024 12:59	03/06/2024 7:31
24030698-003	A BHS-183	NELAP	1.0	< 1.0	µg/L	1	03/20/2024 13:03	03/06/2024 7:35
24030698-004	A BHS-184	NELAP	1.0	< 1.0	µg/L	1	03/20/2024 13:06	03/06/2024 7:35
24030698-005	A BHS-185	NELAP	1.0	20.9	µg/L	1	03/20/2024 13:10	03/06/2024 7:37
24030698-006	A BHS-186	NELAP	2.0	516	µg/L	10	03/25/2024 12:59	03/06/2024 7:37
24030698-007	A BHS-187	NELAP	1.0	8.6	µg/L	1	03/20/2024 13:14	03/06/2024 7:37
24030698-008	A BHS-188	NELAP	1.0	12.4	µg/L	1	03/23/2024 3:51	03/06/2024 7:37
24030698-009	A BHS-189	NELAP	1.0	10.5	µg/L	1	03/20/2024 13:32	03/06/2024 7:37
24030698-010	A BHS-190	NELAP	1.0	58.5	µg/L	1	03/20/2024 13:43	03/06/2024 7:37
24030698-011	A BHS-191	NELAP	1.0	13.4	µg/L	1	03/20/2024 13:46	03/06/2024 7:37
24030698-012	A BHS-192	NELAP	1.0	12.8	µg/L	1	03/20/2024 13:50	03/06/2024 7:37
24030698-013	A BHS-193	NELAP	1.0	7.2	µg/L	1	03/20/2024 13:54	03/06/2024 7:40
24030698-014	A BHS-194	NELAP	1.0	5.9	µg/L	1	03/20/2024 13:57	03/06/2024 7:42
24030698-015	A BHS-195	NELAP	1.0	9.1	µg/L	1	03/20/2024 14:01	03/06/2024 7:42
24030698-016	A BHS-196	NELAP	1.0	8.1	µg/L	1	03/20/2024 14:16	03/06/2024 7:42
24030698-017	A BHS-197	NELAP	1.0	12.1	µg/L	1	03/20/2024 14:19	03/06/2024 7:42
24030698-018	A BHS-198	NELAP	1.0	7.2	µg/L	1	03/20/2024 14:23	03/06/2024 7:42
24030698-019	A BHS-199	NELAP	1.0	13.1	µg/L	1	03/20/2024 14:27	03/06/2024 7:42
24030698-020	A BHS-200	NELAP	1.0	5.0	µg/L	1	03/20/2024 14:38	03/06/2024 7:42
24030698-021	A BHS-201	NELAP	1.0	5.1	µg/L	1	03/20/2024 14:41	03/06/2024 7:42
24030698-022	A BHS-202	NELAP	1.0	< 1.0	µg/L	1	03/20/2024 14:45	03/06/2024 7:48
24030698-023	A BHS-203	NELAP	1.0	< 1.0	µg/L	1	03/20/2024 14:49	03/06/2024 7:48
24030698-024	A BHS-204	NELAP	1.0	< 1.0	µg/L	1	03/20/2024 15:11	03/06/2024 7:48
24030698-025	A BHS-205	NELAP	1.0	4.4	µg/L	1	03/20/2024 15:14	03/06/2024 7:51
24030698-026	A BHS-206	NELAP	1.0	9.1	µg/L	1	03/20/2024 15:18	03/06/2024 7:51
24030698-027	A BHS-207	NELAP	1.0	9.4	µg/L	1	03/20/2024 15:29	03/06/2024 7:51
24030698-028	A BHS-208	NELAP	1.0	8.4	µg/L	1	03/20/2024 15:33	03/06/2024 7:51
24030698-029	A BHS-209	NELAP	1.0	11.9	µg/L	1	03/20/2024 15:36	03/06/2024 7:51
24030698-030	A BHS-210	NELAP	1.0	14.6	µg/L	1	03/20/2024 15:51	03/06/2024 7:51
24030698-031	A BHS-211	NELAP	1.0	7.9	µg/L	1	03/20/2024 15:55	03/06/2024 7:51
24030698-032	A BHS-212	NELAP	1.0	5.4	µg/L	1	03/20/2024 15:58	03/06/2024 7:51
24030698-033	A BHS-213	NELAP	1.0	9.7	µg/L	1	03/20/2024 16:02	03/06/2024 7:55
24030698-034	A BHS-214	NELAP	1.0	14.5	µg/L	1	03/20/2024 16:06	03/06/2024 7:57
24030698-035	A BHS-215	NELAP	1.0	7.7	μg/L	1	03/20/2024 16:09	03/06/2024 7:57
24030698-036	A BHS-216	NELAP	1.0	6.5	µg/L	1	03/20/2024 16:13	03/06/2024 7:57
24030698-037	A BHS-217	NELAP	1.0	7.4	µg/L	1	03/20/2024 16:24	03/06/2024 7:57
24030698-038	A BHS-218	NELAP	1.0	7.9	μg/L	1	03/21/2024 8:54	03/06/2024 7:57
24030698-039	A BHS-219	NELAP	1.0	5.3	μg/L	1	03/21/2024 8:58	03/06/2024 7:57
24030698-040	A BHS-220	NELAP	1.0	11.5	μg/L	1	03/21/2024 9:02	03/06/2024 7:57
24030698-041	A BHS-221	NELAP	1.0	5.2	μg/L	1	03/21/2024 9:05	03/06/2024 7:57



Receiving Check List

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Client Project: J044517.01

Work Order: 24030698 Report Date: 28-Mar-24

Carrier: John Duarte Completed by: On: 08-Mar-24 Nick Reed	Rev	vived By: WAC viewed by: On: Mar-24 F) FILLO Hog Ellie Hopkins	pheno
Shipping container/cooler in good condition? Type of thermal preservation? Chain of custody present? Chain of custody signed when relinquished and received?	Extra pages include Yes 🖌 None 🖌 Yes 🖌 Yes 🗸	No Ice No No	Not Present Blue Ice	Temp °C N/A Dry Ice
Chain of custody agrees with sample labels? Samples in proper container/bottle? Sample containers intact? Sufficient sample volume for indicated test? All samples received within holding time? Reported field parameters measured:	Yes ✔ Yes ✔ Yes ✔ Yes ✔ Yes ✔ Field □	No No No No Lab	NA	
Container/Temp Blank temperature in compliance? When thermal preservation is required, samples are complian 0.1°C - 6.0°C, or when samples are received on ice the same Water – at least one vial per sample has zero headspace?		No e between No	No VOA vials	
Water - TOX containers have zero headspace? Water - pH acceptable upon receipt?	Yes □ Yes ✔	No 🗌 No 🗌	No TOX containers NA	_
NPDES/CWA TCN interferences checked/treated in the field? Any No responses m	Yes 🗌 ust be detailed be	No 🗌 Iow or on the	NA COC.	

Samples were checked for turbidity and then preserved with nitric acid upon arrival in the laboratory. - ehopkins - 3/11/2024 10:35:54 AM

CHAIN OF CUSTODY pg. 19 of 23 Work order #240300

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

Are these samples Are there any requirements in the comm	Brad Lohrum blohrum@teamues.com s known to be involved in li s known to be hazardous? uired reporting limits to be r ient section. Yes	tigation? If yes, Yes X net on the requ No	No ested analysi	will a is?. I	ipply f yes,	pleas		X	No	F	Pres _ab	No No	ved tes	in: me	內 一	LAB		BLUE FIELI	D				No.	yanoma Samar Samar S		ONI		#		
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Other	3 Day (50% Surcharge)			UNPRES	HNO3	H2SO4	H	NaHSO4	OTHER	Aqueous	Drinking Water	Ĕ	ge	Special Waste	Wat	d E2														
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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



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

Client:		·	Geotechnology, Ll	LC												-						BLU		NO IC					С		#	
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City / Stat	e /	Zip	St. Louis, MO 63	146											Lab	No	otes	5														
Contact:	8	Brad L	ohrum			Phone	9 :	(3	14) 9	997-	7440																					
E-Mail:	2	lohru	m@teamues.com			Fax:								C	lieı	nt C	Con	nme	nts	5:					-							
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BottleOrder: 80481

pg. 2.0 of 23 Work order # 24030



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

Client:		Geotechnology, Ll											T] BLU		泷	NO IO					Ċ		#	
Address:		11816 Lackland R												Pre	se	rve	d in		LAB] FIEL	D			<u>F</u>	or L	.AB I	USE	ON	<u>_Y</u>		
City / State	e / Z	ip St. Louis, MO 631	146											Lal	o N	ote	s															
Contact:	Bra	ad Lohrum			Phone	e:	(3	14)	997-	744()																					
E-Mail:	bloi	hrum@teamues.com			Fax:									Clie	nt	Cor	nme	ente	s:								, in the second se					
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The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions.

BottleOrder: 80481

pg. 21 of 23 Work order # 24030



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

Contact: E-Mail: Are these samples Are these samples Are there any requ	Geotechnology, LI T1816 Lackland R St. Louis, MO 631 Brad Lohrum blohrum@teamues.com known to be involved in lit known to be hazardous? ired reporting limits to be n ent section. Yes X	oad I46 Pho Fax igation? If yes, a surcha Yes X No net on the requested ana	rge will	apply		7-744 Yes se pro	X	No	F L C	ore: _ab		red tes	in:		ICE LAB							ORI	LAB		°C E OI		LTG# / -		
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The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions.

BottleOrder: 80481

pg. 22-of 23 Work order # 240.306



\rightarrow (10) $(10$	TEKLAB, INC. 5445 Horseshoe Lake Road -	Collinsville, IL 62234 - Phone:	(618) 344-1004	- Fax: (618) 344-100
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Client:	Geotechnology, L	LC									San	npl	es (on:	饑	ICE	1] BLU	E ICE		NO IC	CE			C	°C	LTG	#		
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City / State	/ Zip St. Louis, MO 63	146					<u> </u>		_		Lab	No	otes	5																
Contact:	Brad Lohrum	Phone	e:	(3	14)	997-7	440																							
E-Mail:	blohrum@teamues.com	Fax:									tiot	nt C	:on	nme	nt	c.														
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The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions.

BottleOrder: 80481

pg. 23 of 23 Work order # 240308





http://www.teklabinc.com/

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 & Hurley

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



Report Contents

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Client Project: J044517.01

Work Order: 24031315 Report Date: 02-Apr-24

This reporting package includes the following:

1
2
3
5
6
7
9
Appended



Definitions

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Client Project: J044517.01

Work Order: 24031315

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.

Client Project: J044517.01

Work Order: 24031315

Report Date: 02-Apr-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: 24031315 Report Date: 02-Apr-24

Client: Geotechnology, Inc.

Client Project: J044517.01

Cooler Receipt Temp: N/A °C

			Locations					
	Collinsville		Springfield	Kansas City				
Address	Address 5445 Horseshoe Lake Road Add		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

Client: Geotechnology, Inc.

Client Project: J044517.01

http://www.teklabinc.com/

Work Order: 24031315 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/

Work Order: 24031315

Report Date: 02-Apr-24

Client: Geotechnology, Inc.

Client Project: J044517.01

Matrix: DRINKING WATER

Sample ID	Client Sample ID	Certification Qual	RL	Result	Units	DF	Date Analyzed	Date Collected
	4, 200.8 R5.4, META	LS BY ICPMS (TOTAL)						
Lead 24031315-001	A BHS-122	NELAP	1.0	5.0	µg/L	1	03/28/2024 9:11	03/15/2024 3:43
24031315-001 24031315-002		NELAP	1.0	1.8	μg/L	1	03/27/2024 9:03	03/15/2024 3:43
24031315-002 24031315-003		NELAP	1.0	2.1	μg/L	1	03/27/2024 9:03	03/15/2024 3:43
24031315-003		NELAP	1.0	6.7		1	03/27/2024 9:33	03/15/2024 3:43
24031315-004 24031315-005			1.0		µg/L	1	03/27/2024 9:37	03/15/2024 3:43
24031315-008 24031315-006			1.0	<mark>5.2</mark>	µg/L	1	03/27/2024 9:41	03/15/2024 3:43
		NELAP		< 1.0	µg/L			
4031315-007		NELAP	1.0	2.7	µg/L	1	03/26/2024 15:15	03/15/2024 4:27
4031315-008		NELAP	1.0	1.5	µg/L	1	03/26/2024 15:20	03/15/2024 4:27
4031315-009		NELAP	1.0	2.3	µg/L	1	03/26/2024 15:24	03/15/2024 4:27
4031315-010		NELAP	1.0	2.1	µg/L	1	03/26/2024 15:28	03/15/2024 4:27
4031315-011		NELAP	1.0	3.1	µg/L	1	03/26/2024 15:33	03/15/2024 4:27
4031315-012		NELAP	1.0	4.9	µg/L	1	03/26/2024 15:37	03/15/2024 4:27
4031315-013		NELAP	1.0	< 1.0	µg/L	1	03/26/2024 15:41	03/15/2024 4:27
4031315-014		NELAP	1.0	1.9	µg/L	1	03/27/2024 9:50	03/15/2024 4:33
4031315-015		NELAP	1.0	< 1.0	µg/L	1	03/27/2024 9:54	03/15/2024 4:36
4031315-016		NELAP	1.0	< 1.0	µg/L	1	03/27/2024 9:59	03/15/2024 4:36
4031315-017		NELAP	1.0	< 1.0	µg/L	1	03/27/2024 10:37	03/15/2024 4:38
4031315-018		NELAP	1.0	< 1.0	µg/L	1	03/27/2024 10:42	03/15/2024 4:38
4031315-019		NELAP	1.0	< 1.0	µg/L	1	03/27/2024 10:46	03/15/2024 4:40
4031315-020	A RBH-14	NELAP	1.0	13.1	µg/L	1	03/28/2024 7:28	03/15/2024 4:41
4031315-021		NELAP	1.0	61.0	µg/L	5	03/27/2024 15:07	03/15/2024 4:47
4031315-022		NELAP	1.0	9.5	µg/L	5	03/27/2024 15:12	03/15/2024 4:47
4031315-023	A RBH-17	NELAP	1.0	13.3	µg/L	5	03/27/2024 15:17	03/15/2024 4:47
4031315-024	A RBH-18	NELAP	1.0	19.4	µg/L	5	03/27/2024 16:46	03/15/2024 4:47
4031315-025	A RBH-19	NELAP	1.0	4.4	µg/L	5	03/27/2024 15:22	03/15/2024 4:47
4031315-026	A RBH-20	NELAP	1.0	17.1	µg/L	5	03/27/2024 15:27	03/15/2024 4:47
4031315-027	A RBH-21	NELAP	1.0	1.6	µg/L	1	03/27/2024 10:50	03/15/2024 4:51
4031315-028	A RBH-22	NELAP	1.0	2.3	µg/L	1	03/27/2024 10:54	03/15/2024 4:51
4031315-029	A RBH-23	NELAP	1.0	2.5	µg/L	1	03/28/2024 7:45	03/15/2024 4:54
4031315-030	A RBH-24	NELAP	1.0	1.4	µg/L	1	03/27/2024 10:59	03/15/2024 4:54
4031315-031	A RBH-25	NELAP	1.0	1.4	µg/L	1	03/27/2024 11:03	03/15/2024 4:54
4031315-032	A RBH-26	NELAP	1.0	< 1.0	µg/L	1	03/27/2024 11:50	03/15/2024 5:00
4031315-033	A RBH-27	NELAP	1.0	< 1.0	µg/L	1	03/27/2024 11:55	03/15/2024 5:00
4031315-034	A RBH-28	NELAP	1.0	< 1.0	µg/L	1	03/27/2024 11:59	03/15/2024 5:00
4031315-035	A RBH-29	NELAP	1.0	2.5	µg/L	1	03/27/2024 12:03	03/15/2024 5:04
4031315-036	A RBH-30	NELAP	1.0	5.1	µg/L	1	03/26/2024 18:05	03/15/2024 5:04
4031315-037	A RBH-31	NELAP	1.0	< 1.0	µg/L	1	03/26/2024 18:09	03/15/2024 5:06
4031315-038		NELAP	1.0	< 1.0	µg/L	1	03/26/2024 18:13	03/15/2024 5:11
4031315-039		NELAP	1.0	< 1.0	µg/L	1	03/27/2024 12:07	03/15/2024 5:11
4031315-040		NELAP	1.0	< 1.0	µg/L	1	03/26/2024 18:18	03/15/2024 5:11
4031315-041		NELAP	1.0	4.9	µg/L	1	03/26/2024 18:22	03/15/2024 5:13
4031315-042		NELAP	1.0	3.3	µg/L	1	03/26/2024 18:26	03/15/2024 5:13
4031315-043		NELAP	1.0	1.4	µg/L	1	03/26/2024 18:31	03/15/2024 5:16
4031315-044		NELAP	1.0	1.4	µg/L	1	03/26/2024 18:35	03/15/2024 5:16
4031315-044		NELAP	1.0	1.0		1	03/26/2024 18:39	03/15/2024 5:16
4031315-046					µg/L		03/27/2024 12:51	
		NELAP	1.0	< 1.0	µg/L	1		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	A RBH-42	NELAP	1.0	1.5	µg/L	1	03/27/2024 13:00	03/15/2024 5:20



Laboratory Results

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Client Project: J044517.01

Matrix: DRINKING WATER

Sample ID	Client Sample ID	Certification Qual	RL	Result	Units	DF	Date Analyzed	Date Collected
EPA 600 4.1.	4, 200.8 R5.4, META	LS BY ICPMS (TOTAL)						
Lead								
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

Work Order: 24031315 Report Date: 02-Apr-24



Receiving Check List

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Client Project: J044517.01

Work Order: 24031315 Report Date: 02-Apr-24

Carrier: Employee	Rec	eived By: LEH		
Completed by: On: 18-Mar-24 Amber Dilallo	U.	eviewed by: On: Mar-24 F	Elled Hope Ellie Hopkins	sens
Pages to follow: Chain of custody 6	Extra pages includ	ed 0		
Shipping container/cooler in good condition?	Yes 🗸	No	Not Present] Temp °C N/A
Type of thermal preservation?	None 🔽		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 complian 0.1° C - 6.0° C, or when samples are received on ice the same		re between		
Water – at least one vial per sample has zero headspace?	Yes 🗌	No	No VOA vials 🖌]
Water - TOX containers have zero headspace?	Yes 🗌	No	No TOX containers]
Water - pH acceptable upon receipt?	Yes 🗹	No 🗌	NA]
NPDES/CWA TCN interferences checked/treated in the field?	Yes	No 🗌	NA 🗹]
Any No responses n	nust be detailed be	elow or on the	coc.	

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

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 requiring in the comm	Address: 11816 Lackland Road City / State / Zip St. Louis, MO 63146 Contact: Brad Lohrum blohrum@teamues.com Fax: e these samples known to be involved in litigation? If yes, a surcharge will apply Yes re these samples known to be hazardous? Yes No re there any required reporting limits to be met on the requested analysis?. If yes, please provide nits in the comment section. Yes No Project Name/Number Sample Collector's Name J044517.01 Brad Lohrum							a na	-	Pro La Clie	ese bN ent	erve lote Co	ed in es mm	h:∦X		8	BLU				<u>F</u>		NA _AB I	USE	ONL	<u>.</u> Y	#						
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X Standard	1-2 Day (100% Su	1					HNO3	NaOH	H2SO4	HCL	MeOH		Muneons	Drinking Water		Sludge	Special Waste	Groundwater	Lead E200.														
Lab Use Only	Sample Ident	tification	Dat	e/Time \$	Sampled	ŝ			4					_			ē		°.			ļ				<u> </u>		⊢					<u> </u>
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The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions.

BottleOrder: 80481

pg. [of [] Work order # <u>2483(315</u>





http://www.teklabinc.com/

July 11, 2024

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

RE: J044517.01



WorkOrder: 24062353

Dear Brad Lohrum:

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

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

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

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

Sincerely,

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



Report Contents

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Client Project: J044517.01

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

This reporting package includes the following:

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Chain of Custody	Appended



Definitions

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Client Project: J044517.01

Work Order: 24062353

Report Date: 11-Jul-24

Abbr Definition

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



Client Project: J044517.01

Definitions

http://www.teklabinc.com/

Work Order: 24062353

Report Date: 11-Jul-24

Qualifiers

- Unknown hydrocarbon

Client: Geotechnology, Inc.

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

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



Case Narrative

http://www.teklabinc.com/

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

Client: Geotechnology, Inc.

Client Project: J044517.01

Cooler Receipt Temp: NA °C

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



Accreditations

http://www.teklabinc.com/

Work Order: 24062353

Report Date: 11-Jul-24

Client: Geotechnology, Inc.

Client Project: J044517.01

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



Laboratory Results

http://www.teklabinc.com/

Work Order: 24062353

Report Date: 11-Jul-24

Client: Geotechnology, Inc.

Client Project: J044517.01

Matrix: DRINKING WATER

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

Work Order: 24062353

Report Date: 11-Jul-24

Client: Geotechnology, Inc.

Client Project: J044517.01

Matrix: DRINKING WATER

Sample ID	Client Sample ID	Certification Q	ual RL	Result	Units	DF	Date Analyzed	Date Collected			
EPA 600 4.1.	EPA 600 4.1.4, 200.8 R5.4, METALS 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	IA BHS-130-2	NELAP	1.0	< 1.0	µg/L	1	07/03/2024 22:13	06/26/2024 21:26			
24062353-052	2A 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	IA BHS-224	NELAP	1.0	< 1.0	µg/L	1	07/03/2024 22:24	06/26/2024 21:30			
24062353-055	5A BHS-225	NELAP	1.0	1.3	µg/L	1	07/03/2024 22:27	06/26/2024 21:30			
24062353-056	BA BHS-226	NELAP	1.0	3.0	µg/L	1	07/03/2024 22:31	06/26/2024 21:15			
24062353-057	7A BHS-227	NELAP	1.0	2.8	µg/L	1	07/03/2024 22:35	06/26/2024 21:15			



Receiving Check List

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Client Project: J044517.01

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

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

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

Client:	Client: Geotechnology, LLC											oles	on:	<u>88</u>	ICE	BLUE ICE IN NO ICE °C LTG#											
Address:	11816 Lackle	11816 Lackland Road													LAB	B FIELD FOR LAB USE ONLY											
City / State	/ Zip St. Louis, MC	St. Louis, MO 63146												Lab Notes													
Contact:	Brad Lohrum		Phone	Phone: (314) 997-7440																							
E-Mail:	blohrum@teamues.c	om	Fax:								Client Comments:																
Are these samples	s known to be involved	I in litigation? If yes,	, a surcharge	will ap	ply		Yes	X	No	1																	
Are these sample:	s known to be hazardo	ous? 🗌 Yes 🛛 🕅	No																								
	uired reporting limits to nent section.		lested analysi	s?. If y	/es, p	lease	e prov	/ide																			
	Name/Number		ampie Col	lecto	r's i	Nam	e				M	ATR	IX			INDICATE ANALYSIS REQUESTED											
	4517.01		Brad Lo								2		s	6	DW												
Result	s Requested	Billing Ins	structions			pe of	Con	taine	rs	Aqueous	rinki	<u>د</u>	Special Waste	Groundwater													
X Standard] 1-2 Day (100% Surchard	je)		ç ,		Γ		, Na	0	ueo		Sludge		ndw	Lead												
Other	3 Day (50% Surchar	ge)		UNPRES		2SO	티흐	HISO	5 OTHER	S	Nat	e	Vast	/ate	E200.												
Lab Use Only	Sample Identifica	tion Date/Tim	e Sampled	s S		4		4	Â	<u>c</u>	P		ñ	~	0,8												
24062353-04	0MS-40	6/2/0/2	24 5:10	1							X		_		X												
-012	0 MS-2:	3-2 1	8:11	1							X				Х												
-043			t	1							X				Х												
-044	6MS-29	-2	8:13	1							X				X												
-045	EBE-35	-3	8:39	1							X				Х												
-046	EBE-63	5	8:43	1							X				X												
-047	BHS -83	-2	9:10	1							X				X												
-048	BHS-122	2	9:20	1							X				Х												
-049	125	-2	1	1							x				Х												
~ 050	126	-2 7	-	1	Τ						X				Х												
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<u> </u>	ayoon			/···/																							

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 6 Work order # 24062353



pg. 6 of Work order # 2406 2353

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

Client:			Geotechnology, L	LC											Т	Sar	mpl	les	on:	1	ICE	Ŵ	BLU			NOI	CE			C	°C	LTO	¥		
Address			11816 Lackland Road												Preserved in: LAB FIELD FOR LAB USE ONLY																				
		Zip	St. Louis, MO 63146													Lat	b N	ote	s															1	
Contact: Brad Lohrum Phone: (314) 997-7440																																			
E-Mail:	÷	blohrun	@teamues.com	Fax:									Client Comments:																						
Are these sa	e 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 limits in the c	Are there any required reporting limits to be met on the requested analysis?. If yes, please provide imits in the comment section. \Box Yes \overline{X} No																																		
														┯┶	MATRIX INDICATE ANALYSIS REQUESTED																				
											┝		1	T	T T					314							T			Ì					
		Brad Lohrum									Drin			Spe	19	DW -																			
Results Requested				Billing Instructions					# and Type of Container H2SO4 HN03 UNPRES					ers	ê	kin	Soil	Slu	cia	· [ŭ	Lead		1	Í						[
Other 3 Day (50% Surcharge)										Na	H2S	Ŧ	MeOH	[9	eou	NB	Ne le	Sludge	Special Waste	Groundwater	д П	ב ת													
Lab Use O		Date/Time Sampled					HNO3	말	Ö 4	님	ŦĮţ	Į۵	S	Drinking Water			Iste	 ē	E200.8									1							
1		_	ple Identification									_	-+-	+	╋	_		+																	+
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<u></u>	53		2.23		1			1		ļ					_	X	+	┶	<u> </u>	<u> </u>	X	L	<u> </u>			 	ļ		<u> </u>	<u> </u>		ļ	_	ļ	<u> </u>
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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.

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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.