

WATER SAMPLING AND REPORTING SERVICES

COLUMBIA PUBLIC SCHOOLS
LANGE MIDDLE SCHOOL
2201 EAST SMILEY LANE
COLUMBIA, MISSOURI

Prepared for:

COLUMBIA PUBLIC SCHOOLS
COLUMBIA, MISSOURI

Prepared by:

GEOTECHNOLOGY, LLC, DBA UES St. Louis, Missouri

Date:

DECEMBER 21, 2024

Project No.:

J044517.01

SAFETY TEAMWORK RESPONSIVENESS INTEGRITY VALUE EXCELLENCE



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

December 21, 2024

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

Re: Water Sampling and Reporting Services

Columbia Public Schools Lange Middle School 2201 East Smiley Lane 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 Lange Middle School, located North of the intersection of East Hunter Lane and East Smiley Lane in Columbia, Missouri. The purpose of the drinking water sampling was to identify potable water outlets that may require remediation in accordance with the State of Missouri's *Get the Lead out of School Drinking Water Act* (RSMo 160.077).

DRINKING WATER SAMPLING

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

In general conformance with the RSMo 160.077 requirements, and the Environmental Protection Agency's (EPA) 3Ts for Reducing Lead in Drinking Water in Schools and Child Care Facilities manual, initial water flushing and sampling activities were conducted on January 11 and 12, 2024, by Mr. Brad Lohrum, a Missouri-licensed lead risk assessor. Mr. Lohrum was assisted by Mr. Robert Haefner, a Missouri-licensed lead risk assessor, and Mr. Seth Lamble, a



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

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

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

RESULTS

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

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

| Sample Number / Location and Fixture Type | Results |
|---|----------|
| LMS-08 / Room 90 Sink | 6.9 ppb |
| LMS-58 / Room 122 Eye Wash Sink | 6.5 ppb |
| LMS-98 / Room 224 Right-hand Sink | 6.1 ppb |
| LMS-105 / Room 222 Eye Wash Sink | 15.2 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 have either been removed, marked as non-potable, or have otherwise been taken out of service. Should these fixtures be put back into service following remediation activities, or if replacement fixtures are to be put into service, further sampling and testing should be conducted.



* * * * * *

The following attachments are included in and complete this report:

Figure 1 - Drinking Water Sample Locations – First Floor
Figure 2 - Drinking Water Sample Locations – Second Floor

Appendix A - Certificates and Licenses of Environmental Professionals

Appendix B - Drinking Water Sampling Forms

Appendix C - Drinking Water Laboratory Data Sheets

Appendix D - Limitations of Report

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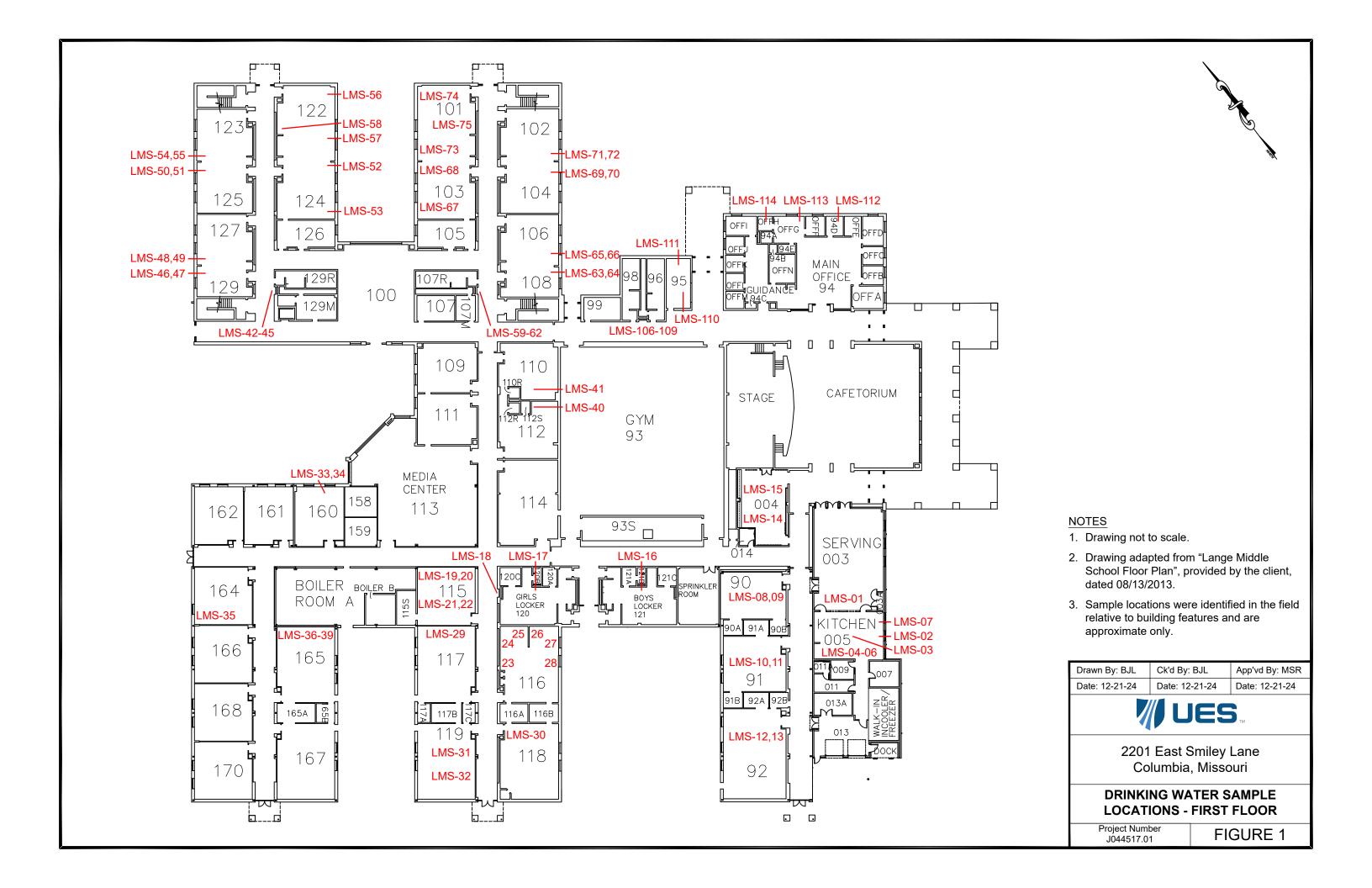
We appreciate the opportunity to provide our professional environmental consulting services to Columbia Public Schools on this project. If you have any questions or comments, please contact me at (314) 997-7440.

Very truly yours,

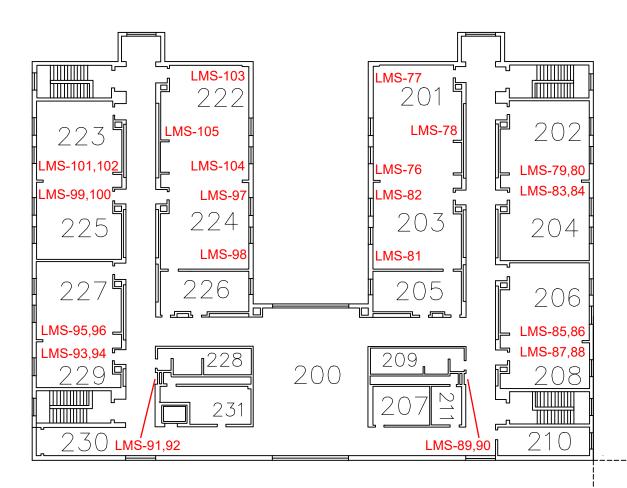
UES

Bradley J. Lohrum Project Manager

BJL/MSR:bjl/jsj







(GYM BELOW) 93

> 293

NOTES

- 1. Drawing not to scale.
- 2. Drawing adapted from "Lange Middle School Floor Plan", provided by the client, dated 08/13/2013.
- 3. Sample locations were identified in the field relative to building features and are approximate only.

| | | • | |
|---|----------------|----------------|----------------|
| | Date: 12-21-24 | Date: 12-21-24 | Date: 12-21-24 |
| ı | Drawn By: BJL | Ck'd By: BJL | App'vd By: MSR |



2201 East Smiley Lane Columbia, Missouri

DRINKING WATER SAMPLE LOCATIONS - SECOND FLOOR

Project Number J044517.01

FIGURE 2



APPENDIX A

CERTIFICATES AND LICENSES OF ENVIRONMENTAL PROFESSIONALS

PUBLIC HEALTH & SOCIAL JUSTICE

SAINT LOUIS UNIVERSITY

CENTER FOR ENVIRONMENTAL EDUCATION AND TRAINING

verifies that

Bradley Lohrum

817 S Sappington Road, Crestwood, MO 63126

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

Lead Risk Assessor Refresher

St. Louis, MO

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

Examination Date: 12/12/2022

CEUs: 0.8

Christopher C. King PhD

Director, Center for Environmental Education and Training

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

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

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

STATE OF MISSOURI DEPARTMENT OF HEALTH AND SENIOR SERVICES

LEAD OCCUPATION LICENSE REGISTRATION

Issued to:

Bradley J. Lohrum

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

Lead Risk Assessor
Category of License

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

License Number: 230120-300006460

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

Davea I. Nichel



SAINT LOUIS UNIVERSITY

CENTER FOR ENVIRONMENTAL EDUCATION AND TRAINING

verifies that

Robert Haefner

3951 Dover PI, St. Louis, MO 63116

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

Lead Risk Assessor Refresher

St. Louis, MO

Certificate #

CEET 325 3/6/2023

118035

Examination Date:

3/6/2023

CEUs: 0.8

)35

Rene Dulle, MBA, Director

Center for Environmental Education & Training

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

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

STATE OF MISSOURI DEPARTMENT OF HEALTH AND SENIOR SERVICES

LEAD OCCUPATION LICENSE REGISTRATION

Issued to

Robert J. Haefner

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

Lead Risk Assessor Category of License

Issuance Date: Expiration Date:

License Number:

3/28/2023

3/30/2025

150330-300004672

POPULI SUPREN

Paula F. Nickelson

Acting Director

Department of Health and Senior Services

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

COLLEGE FOR PUBLIC HEALTH & SOCIAL JUSTICE

SAINT LOUIS UNIVERSITY

CENTER FOR ENVIRONMENTAL EDUCATION AND TRAINING

verifies that

Seth Lamble

12040 Chaparral Drive, Bridgeton, Missouri 63044

contact hours of training and successfully passed an examination has attended

Lead Inspector Refresher

St. Louis, MO

Certificate #

CEET 315

1/4/2022

118633

Examination Date:

CEUs: 0.8

1/4/2022

Director, Center for Environmental **Education and Training**

Christopher C. King PhD

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

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

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

STATE OF MISSOURI DEPARTMENT OF HEALTH AND SENIOR SERVICES

LEAD OCCUPATION LICENSE REGISTRATION

Issued to:

Seth P. Lamble

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

Lead Inspector

Category of License

Issuance Date: 4/25/2022 Expiration Date: 4/25/2024

License Number: 160425-300004897

Paula F. Nickelson Acting Director

Daves I. Nichels

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

11816 Lackland Road, Suite 150 St. Louis, MO 63146

Issuance Date: 2/8/2022 Expiration Date: 2/8/2024

License Number: 060208-0095



Donald G. Kauerauf 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: Lange Middle School

Project Number: J044517.01

Address: 2201 East Smiley Lane

Columbia, Missouri

| Sample ID | Fixture Type | Location | Flushed By - Date - Time | Sampled By - Date - Time | |
|-----------|--------------|----------------------------|--------------------------|--------------------------|--|
| LMS-01 | S | Serving | SPL - 1/11/24 - 18:27 | RJH - 1/12/24 - 4:27 | |
| LMS-02 | S | Kitchen - Food Prep East | RJH - 1/11/24 - 18:30 | RJH - 1/12/24 - 4:28 | |
| LMS-03 | S | Kitchen - Food Prep Center | RJH - 1/11/24 - 18:30 | RJH - 1/12/24 - 4:28 | |
| LMS-04 | S | Kitchen Dish Wash - Left | SPL - 1/11/24 - 18:30 | RJH - 1/12/24 - 4:28 | |
| LMS-05 | S | Kitchen Dish Wash - Center | SPL - 1/11/24 - 18:30 | RJH - 1/12/24 - 4:28 | |
| LMS-06 | S | Kitchen Dish Wash - Right | SPL - 1/11/24 - 18:30 | RJH - 1/12/24 - 4:28 | |
| LMS-07 | ICE | Kitchen | SPL - 1/11/24 - 18:31 | SPL - 1/12/24 - 4:28 | |
| LMS-08 | S | Room 90 | RJH - 1/11/24 - 18:34 | RJH - 1/12/24 - 4:31 | |
| LMS-09 | WF | Room 90 | SPL - 1/11/24 - 18:34 | SPL - 1/12/24 - 4:31 | |
| LMS-10 | S | Room 91 | SPL - 1/11/24 - 18:35 | RJH - 1/12/24 - 4:32 | |
| LMS-11 | WF | Room 91 | SPL - 1/11/24 - 18:35 | SPL - 1/12/24 - 4:32 | |
| LMS-12 | S | Room 92 | RJH - 1/11/24 - 18:36 | RJH - 1/12/24 - 4:33 | |
| LMS-13 | WF | Room 92 | SPL - 1/11/24 - 18:36 | SPL - 1/12/24 - 4:33 | |
| LMS-14 | S | Room 4 - Left | RJH - 1/11/24 - 18:38 | RJH - 1/12/24 - 4:34 | |
| LMS-15 | S | Room 4 - Right | SPL - 1/11/24 - 18:38 | SPL - 1/12/24 - 4:34 | |
| LMS-16 | WF | Boy's Locker Room | RJH - 1/11/24 - 18:44 | RJH - 1/12/24 - 4:35 | |
| LMS-17 | WF | Girl's Locker Room | SPL - 1/11/24 - 18:45 | RJH - 1/12/24 - 4:35 | |
| LMS-18 | WF | Hallway at Room 115 - Left | SPL - 1/11/24 - 18:47 | RJH - 1/12/24 - 4:37 | |
| LMS-19 | S | Room 115 - Left | RJH - 1/11/24 - 18:49 | RJH - 1/12/24 - 4:38 | |
| LMS-20 | В | Room 115 - Left | RJH - 1/11/24 - 18:49 | RJH - 1/12/24 - 4:38 | |
| LMS-21 | S | Room 115 - Right | SPL - 1/11/24 - 18:49 | SPL - 1/12/24 - 4:38 | |
| LMS-22 | В | Room 115 - Right | SPL - 1/11/24 - 18:49 | SPL - 1/12/24 - 4:38 | |
| LMS-23 | S | Room 116 Red | RJH - 1/11/24 - 18:53 | RJH - 1/12/24 - 4:40 | |
| LMS-24 | S | Room 116 Orange | RJH - 1/11/24 - 18:53 | RJH - 1/12/24 - 4:40 | |
| LMS-25 | S | Room 116 Yellow | RJH - 1/11/24 - 18:53 | SPL - 1/12/24 - 4:40 | |

BF=Bottle Filling
B=Bubbler

FW=Filtered Water ICE=Ice Machine

S=Classroom/Other Sink WF=Water Fountain



Project Name: Columbia Public Schools Water

Sampling and Reporting Services

Building Name: Lange Middle School

Project Number: J044517.01

Address: 2201 East Smiley Lane

Columbia, Missouri

| Sample ID | Fixture Type | Location | Flushed By - Date - Time | Sampled By - Date - Time |
|-----------|--------------|-----------------------------|--------------------------|--------------------------|
| LMS-26 | S | Room 116 Green | SPL - 1/11/24 - 18:53 | SPL - 1/12/24 - 4:40 |
| LMS-27 | S | Room 116 Blue | SPL - 1/11/24 - 18:53 | RJH - 1/12/24 - 4:40 |
| LMS-28 | S | Room 116 Purple | SPL - 1/11/24 - 18:53 | RJH - 1/12/24 - 4:40 |
| LMS-29 | S | Room 117 | SPL - 1/11/24 - 18:56 | RJH - 1/12/24 - 4:42 |
| LMS-30 | S | Room 118 | SPL - 1/11/24 - 18:57 | RJH - 1/12/24 - 4:42 |
| LMS-31 | S | Room 119 - Left | RJH - 1/11/24 - 18:58 | SPL - 1/12/24 - 4:43 |
| LMS-32 | S | Room 119 - Right | SPL - 1/11/24 - 18:58 | RJH - 1/12/24 - 4:43 |
| LMS-33 | S | Room 160 | SPL - 1/11/24 - 19:00 | RJH - 1/12/24 - 4:45 |
| LMS-34 | В | Room 160 | SPL - 1/11/24 - 19:00 | RJH - 1/12/24 - 4:45 |
| LMS-35 | S | Room 164 | RJH - 1/11/24 - 19:02 | SPL - 1/12/24 - 4:46 |
| LMS-36 | S | Room 165 - Left | RJH - 1/11/24 -19:04 | RJH - 1/12/24 - 4:47 |
| LMS-37 | S | Room 165 - Left Center | RJH - 1/11/24 - 19:04 | RJH - 1/12/24 - 4:47 |
| LMS-38 | S | Room 165 - Right Center | SPL - 1/11/24 - 19:04 | SPL - 1/12/24 - 4:47 |
| LMS-39 | S | Room 165 - Right | SPL - 1/11/24 - 19:04 | SPL - 1/12/24 - 4:47 |
| LMS-40 | S | Room 112 | RJH - 1/11/24 - 19:09 | RJH - 1/12/24 - 4:51 |
| LMS-41 | S | Room 110 | SPL - 1/11/24 - 19:10 | SPL - 1/12/24 - 4:52 |
| LMS-42 | BF | Hallway at Room 129 - Left | RJH - 1/11/24 - 19:12 | RJH - 1/12/24 - 4:54 |
| LMS-43 | WF | Hallway at Room 129 - Left | RJH - 1/11/24 - 19:12 | RJH - 1/12/24 - 4:54 |
| LMS-44 | BF | Hallway at Room 129 - Right | SPL - 1/11/24 - 19:12 | SPL - 1/12/24 - 4:54 |
| LMS-45 | WF | Hallway at Room 129 - Right | SPL - 1/11/24 - 19:12 | SPL - 1/12/24 - 4:54 |
| LMS-46 | S | Room 129 | RJH - 1/11/24 - 19:13 | RJH - 1/12/24 - 4:55 |
| LMS-47 | В | Room 129 | RJH - 1/11/24 - 19:13 | RJH - 1/12/24 - 4:55 |
| LMS-48 | S | Room 127 | SPL - 1/11/24 - 19:14 | SPL - 1/12/24 - 4:56 |
| LMS-49 | В | Room 127 | SPL - 1/11/24 - 19:14 | SPL - 1/12/24 - 4:56 |
| LMS-50 | S | Room 125 | RJH - 1/11/24 - 19:15 | RJH - 1/12/24 - 4:57 |

BF=Bottle Filling
B=Bubbler

FW=Filtered Water ICE=Ice Machine

S=Classroom/Other Sink WF=Water Fountain



Project Name: Columbia Public Schools Water

Sampling and Reporting Services

Building Name: Lange Middle School

Project Number: J044517.01

Address: 2201 East Smiley Lane

Columbia, Missouri

| Sample ID | Fixture Type | Location | Flushed By - Date - Time | Sampled By - Date - Time |
|-----------|--------------|-----------------------------|--------------------------|--------------------------|
| LMS-51 | В | Room 125 | RJH - 1/11/24 - 19:15 | RJH - 1/12/24 - 4:57 |
| LMS-52 | S | Room 124 - Left | RJH - 1/11/24 - 19:17 | SPL - 1/12/24 - 4:58 |
| LMS-53 | В | Room 124 - Right | SPL - 1/11/24 - 19:17 | RJH - 1/12/24 - 4:58 |
| LMS-54 | S | Room 123 | SPL - 1/11/24 - 19:18 | RJH - 1/12/24 - 4:59 |
| LMS-55 | В | Room 123 | SPL - 1/11/24 - 19:18 | RJH - 1/12/24 - 4:59 |
| LMS-56 | S | Room 122 - Left | SPL - 1/11/24 - 19:20 | SPL - 1/12/24 - 5:00 |
| LMS-57 | S | Room 122 - Right | SPL - 1/11/24 - 19:20 | RJH - 1/12/24 - 5:00 |
| LMS-58 | S | Room 122 - Eyewash | RJH - 1/11/24 - 19:20 | BJL - 1/12/24 - 5:00 |
| LMS-59 | BF | Hallway at Room 108 - Left | RJH - 1/11/24 - 19:23 | RJH - 1/12/24 - 5:03 |
| LMS-60 | WF | Hallway at Room 108 - Left | RJH - 1/11/24 - 19:23 | RJH - 1/12/24 - 5:03 |
| LMS-61 | BF | Hallway at Room 108 - Right | RJH - 1/11/24 - 19:23 | RJH - 1/12/24 - 5:03 |
| LMS-62 | WF | Hallway at Room 108 - Right | RJH - 1/11/24 - 19:23 | RJH - 1/12/24 - 5:03 |
| LMS-63 | S | Room 108 | SPL - 1/11/24 - 19:24 | RJH - 1/12/24 - 5:03 |
| LMS-64 | В | Room 108 | SPL - 1/11/24 - 19:24 | RJH - 1/12/24 - 5:03 |
| LMS-65 | S | Room 106 | RJH - 1/11/24 - 19:25 | SPL - 1/12/24 - 5:04 |
| LMS-66 | В | Room 106 | RJH - 1/11/24 - 19:25 | SPL - 1/12/24 - 5:04 |
| LMS-67 | S | Room 103 - Left | SPL - 1/11/24 - 19:26 | RJH - 1/12/24 - 5:05 |
| LMS-68 | S | Room 103 - Right | SPL - 1/11/24 - 19:26 | RJH - 1/12/64 - 5:05 |
| LMS-69 | S | Room 104 | SPL - 1/11/24 - 19:27 | SPL - 1/12/24 - 5:06 |
| LMS-70 | В | Room 104 | SPL - 1/11/24 - 19:27 | SPL - 1/12/24 - 5:06 |
| LMS-71 | S | Room 102 | SPL - 1/11/24 - 19:28 | RJH - 1/12/24 - 5:07 |
| LMS-72 | В | Room 102 | SPL - 1/11/24 - 19:28 | RJH - 1/12/24 - 5:07 |
| LMS-73 | S | Room 101 - Left | SPL - 1/11/24 - 19:29 | SPL - 1/12/24 - 5:08 |
| LMS-74 | S | Room 101 - Right | RJH - 1/11/24 - 19:29 | SPL - 1/12/24 - 5:08 |
| LMS-75 | S | Room 101 - Eyewash | BJL - 1/11/24 - 19:29 | BJL - 1/12/24 - 5:08 |

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Project Name: Columbia Public Schools Water

Sampling and Reporting Services

Building Name: Lange Middle School

Project Number: J044517.01

Address: 2201 East Smiley Lane

Columbia, Missouri

| Sample ID | Fixture Type | Location | Flushed By - Date - Time | Sampled By - Date - Time | |
|-----------|--------------|-----------------------------|--------------------------|--------------------------|--|
| LMS-76 | S | Room 201 - Left | RJH - 1/11/24 - 19:33 | RJH - 1/12/24 - 5:11 | |
| LMS-77 | S | Room 201 - Right | SPL - 1/11/24 - 19:33 | RJH - 1/12/24 - 5:11 | |
| LMS-78 | S | Room 201 - Eyewash | BJL - 1/11/24 - 19:33 | BJL - 1/12/24 - 5:11 | |
| LMS-79 | S | Room 202 | SPL - 1/11/24 - 19:34 | RJH - 1/12/24 - 5:12 | |
| LMS-80 | В | Room 202 | SPL - 1/11/24 - 19:34 | RJH - 1/12/24 - 5:12 | |
| LMS-81 | S | Room 203 - Left | SPL - 1/11/24 - 19:35 | RJH - 1/12/24 - 5:13 | |
| LMS-82 | S | Room 203 - Right | RJH - 1/11/24 - 19:35 | SPL - 1/12/24 - 5:13 | |
| LMS-83 | S | Room 204 | RJH - 1/11/24 - 19:36 | SPL - 1/12/24 - 5:14 | |
| LMS-84 | В | Room 204 | RJH - 1/11/24 - 19:36 | SPL - 1/12/24 - 5:14 | |
| LMS-85 | S | Room 206 | SPL - 1/11/24 - 19:37 | RJH - 1/12/24 - 5:15 | |
| LMS-86 | В | Room 206 | SPL - 1/11/24 - 19:37 | RJH - 1/12/24 - 5:15 | |
| LMS-87 | S | Room 208 | RJH - 1/11/24 - 19:38 | SPL - 1/12/24 - 5:16 | |
| LMS-88 | В | Room 208 | RJH - 1/11/24 - 19:38 | SPL - 1/12/24 - 5:16 | |
| LMS-89 | BF | Hallway at Room 209 - Right | SPL - 1/11/24 - 19:39 | RJH - 1/12/24 - 5:17 | |
| LMS-90 | WF | Hallway at Room 209 - Right | SPL - 1/11/24 - 19:39 | RJH - 1/12/24 - 5:17 | |
| LMS-91 | BF | Hallway at Room 228 - Right | SPL - 1/11/24 - 19:41 | SPL - 1/12/24 - 5:18 | |
| LMS-92 | WF | Hallway at Room 228 - Right | SPL - 1/11/24 - 19:41 | SPL - 1/12/24 - 5:18 | |
| LMS-93 | S | Room 229 | SPL - 1/11/24 - 19:42 | RJH - 1/12/24 - 5:19 | |
| LMS-94 | В | Room 229 | SPL - 1/11/24 - 19:42 | RJH - 1/12/24 - 5:19 | |
| LMS-95 | S | Room 227 | RJH - 1/11/24 - 19:43 | SPL - 1/12/24 - 5:20 | |
| LMS-96 | В | Room 227 | RJH - 1/11/24 - 19:43 | SPL - 1/12/24 - 5:20 | |
| LMS-97 | S | Room 224 - Left | SPL - 1/11/24 - 19:44 | RJH - 1/12/24 - 5:20 | |
| LMS-98 | S | Room 224 - Right | SPL - 1/11/24 - 19:44 | RJH - 1/12/24 - 5:20 | |
| LMS-99 | S | Room 225 | RJH - 1/11/24 - 19:45 | SPL - 1/12/24 - 5:21 | |
| LMS-100 | В | Room 225 | RJH - 1/11/24 - 19:45 | SPL - 1/12/24 - 5:21 | |

BF=Bottle Filling
B=Bubbler

FW=Filtered Water ICE=Ice Machine

S=Classroom/Other Sink WF=Water Fountain





Project Name: Columbia Public Schools Water

Sampling and Reporting Services

Building Name: Lange Middle School

Project Number: J044517.01

Address: 2201 East Smiley Lane

Columbia, Missouri

| Sample ID | Fixture Type | Location | Flushed By - Date - Time | Sampled By - Date - Time |
|-----------|--------------|--------------------------------|--------------------------|--------------------------|
| LMS-101 | S Room 223 | | SPL - 1/11/24 - 19:46 | RJH - 1/12/24 - 5:23 |
| LMS-102 | В | Room 223 | SPL - 1/11/24 - 19:46 | RJH - 1/12/24 - 5:23 |
| LMS-103 | S | Room 222 - Left | SPL - 1/11/24 - 19:48 | SPL - 1/12/24 - 5:24 |
| LMS-104 | S | Room 222 - Right | RJH - 1/11/24 - 19:48 | RJH - 1/12/24 - 5:24 |
| LMS-105 | S | Room 222 - Eyewash | BJL - 1/11/24 - 19:48 | BJL - 1/12/24 - 5:24 |
| LMS-106 | BF | Hallway at Rooms 96/98 - Left | RJH - 1/11/24 - 19:51 | RJH - 1/12/24 - 5:26 |
| LMS-107 | WF | Hallway at Rooms 96/98 - Left | RJH - 1/11/24 - 19:51 | RJH - 1/12/24 - 5:26 |
| LMS-108 | BF | Hallway at Rooms 96/98 - Right | SPL - 1/11/24 - 19:51 | SPL - 1/12/24 - 5:26 |
| LMS-109 | WF | Hallway at Rooms 96/98 - Right | SPL - 1/11/24 - 19:51 | SPL - 1/12/24 - 5:26 |
| LMS-110 | S | Room 95 | RJH - 1/11/24 - 19:52 | RJH - 1/12/24 - 5:29 |
| LMS-111 | ICE | Room 95 | SPL - 1/11/24 - 19:52 | BJL - 1/12/24 - 5:29 |
| LMS-112 | S | Room 94D | RJH - 1/11/24 - 19:57 | SPL - 1/12/24 - 5:32 |
| LMS-113 | S | Office G | BJL - 1/11/24 - 19:57 | BJL - 1/12/24 - 5:32 |
| LMS-114 | S | Office H | BJL - 1/11/24 - 19:58 | SPL - 1/12/24 - 5:32 |
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APPENDIX C

DRINKING WATER LABORATORY DATA SHEETS



February 14, 2024

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

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

RE: J044517.01 **WorkOrder:** 24011314

Dear Brad Lohrum:

TEKLAB, INC received 60 samples on 1/19/2024 10:12:00 AM for the analysis presented in the following report.

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

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

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

Sincerely,

Shelly A. Hennessy

Shelly A Hennessy

Project Manager

(618)344-1004 ex 36

SHennessy@teklabinc.com



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



Report Contents

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Work Order: 24011314

Client Project: J044517.01

Report Date: 14-Feb-24

This reporting package includes the following:

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



Definitions

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Work Order: 24011314

Client Project: J044517.01 Report Date: 14-Feb-24

Abbr Definition

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



Definitions

http://www.teklabinc.com/

Client: Geotechnology, Inc. Work Order: 24011314

Client Project: J044517.01 Report Date: 14-Feb-24

Qualifiers

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

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



Case Narrative

http://www.teklabinc.com/

Work Order: 24011314

Report Date: 14-Feb-24

Client: Geotechnology, Inc.

Cooler Receipt Temp: N/A °C

Client Project: J044517.01

Locations

| | Collinsville | | Springfield | | Kansas City | | |
|---------|------------------------------------|---------|----------------------------|-------|-----------------------|--|--|
| Address | 3 5445 Horseshoe Lake Road Address | | 3920 Pintail Dr Addres | | 8421 Nieman Road | | |
| | Collinsville, IL 62234-7425 | | Springfield, IL 62711-9415 | | Lenexa, KS 66214 | | |
| Phone | (618) 344-1004 | Phone | (217) 698-1004 | Phone | (913) 541-1998 | | |
| Fax | (618) 344-1005 | Fax | (217) 698-1005 | Fax | (913) 541-1998 | | |
| Email | jhriley@teklabinc.com | Email | KKlostermann@teklabinc.com | Email | jhriley@teklabinc.com | | |
| | Collinsville Air | | Chicago | | | | |
| Address | 5445 Horseshoe Lake Road | Address | 1319 Butterfield Rd. | | | | |
| | Collinsville, IL 62234-7425 | | Downers Grove, IL 60515 | | | | |
| Phone | (618) 344-1004 | Phone | (630) 324-6855 | | | | |
| Fax | (618) 344-1005 | Fax | | | | | |
| Email | EHurley@teklabinc.com | Email | arenner@teklabinc.com | | | | |



Accreditations

http://www.teklabinc.com/

Client: Geotechnology, Inc. Work Order: 24011314

Client Project: J044517.01 Report Date: 14-Feb-24

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



Laboratory Results

http://www.teklabinc.com/

Client: Geotechnology, Inc. Work Order: 24011314

Client Project: J044517.01 Report Date: 14-Feb-24

Matrix: DRINKING WATER

| Sample ID | Client Sample ID | Certification Qual | RL | Result | Units | DF | Date Analyzed Date Collected | |
|-----------------------|--------------------|---------------------|-----|--------|-------|----|------------------------------|-----------------|
| EPA 600 4.1.4 Lead | , 200.8 R5.4, META | LS BY ICPMS (TOTAL) | | | | | | |
| 24011314-001 <i>A</i> | JMS-66 | NELAP | 1.0 | 1.1 | μg/L | 1 | 02/02/2024 22:24 | 01/11/2024 7:25 |
| 24011314-002A | A JMS-67 | NELAP | 1.0 | 1.1 | μg/L | 1 | 02/02/2024 22:53 | 01/11/2024 7:25 |
| 24011314-003A | A JMS-68 | NELAP | 1.0 | 19.1 | µg/L | 1 | 02/02/2024 22:57 | 01/11/2024 7:26 |
| 24011314-004 <i>A</i> | A AAB-14-2 | NELAP | 1.0 | < 1.0 | μg/L | 1 | 02/02/2024 23:01 | 01/11/2024 7:40 |
| 24011314-005A | A OMS-01 | NELAP | 1.0 | 2.7 | µg/L | 1 | 02/02/2024 23:22 | 01/12/2024 3:44 |
| 24011314-006A | A OMS-02 | NELAP | 1.0 | < 1.0 | μg/L | 1 | 02/02/2024 23:06 | 01/12/2024 3:44 |
| 24011314-007A | A OMS-03 | NELAP | 1.0 | < 1.0 | μg/L | 1 | 02/02/2024 23:10 | 01/12/2024 3:44 |
| 24011314-008A | A OMS-04 | NELAP | 1.0 | < 1.0 | µg/L | 1 | 02/02/2024 23:14 | 01/12/2024 3:44 |
| 24011314-009A | A OMS-05 | NELAP | 1.0 | < 1.0 | μg/L | 1 | 02/02/2024 23:18 | 01/12/2024 3:44 |
| 24011314-010A | A OMS-06 | NELAP | 1.0 | < 1.0 | µg/L | 1 | 02/02/2024 23:47 | 01/12/2024 3:44 |
| 24011314-011 <i>A</i> | A OMS-07 | NELAP | 1.0 | < 1.0 | µg/L | 1 | 02/02/2024 23:51 | 01/12/2024 3:44 |
| 24011314-012A | A OMS-08 | NELAP | 1.0 | 6.6 | µg/L | 1 | 02/02/2024 23:55 | 01/12/2024 3:47 |
| 24011314-013A | A OMS-09 | NELAP | 1.0 | 1.8 | µg/L | 1 | 02/02/2024 23:59 | 01/12/2024 3:47 |
| 24011314-014A | A OMS-10 | NELAP | 1.0 | 5.5 | µg/L | 1 | 02/03/2024 0:03 | 01/12/2024 3:47 |
| 24011314-015A | A OMS-11 | NELAP | 1.0 | 1.3 | µg/L | 1 | 02/03/2024 0:16 | 01/12/2024 3:47 |
| 24011314-016A | A OMS-12 | NELAP | 1.0 | 5.6 | µg/L | 1 | 02/03/2024 0:53 | 01/12/2024 3:49 |
| 24011314-017A | A OMS-13 | NELAP | 1.0 | < 1.0 | µg/L | 1 | 02/03/2024 0:57 | 01/12/2024 3:51 |
| 24011314-018A | A OMS-14 | NELAP | 1.0 | 1.9 | µg/L | 5 | 02/14/2024 7:18 | 01/12/2024 3:54 |
| 24011314-019A | OMS-15 | NELAP | 1.0 | < 1.0 | µg/L | 1 | 02/03/2024 1:01 | 01/12/2024 3:54 |
| 24011314-020A | A OMS-16 | NELAP | 1.0 | 3.6 | µg/L | 5 | 02/14/2024 7:22 | 01/12/2024 3:54 |
| 24011314-021 <i>A</i> | A OMS-17 | NELAP | 1.0 | 42.2 | µg/L | 5 | 02/14/2024 7:48 | 01/12/2024 3:54 |
| 24011314-022A | A OMS-18 | NELAP | 1.0 | 2.5 | µg/L | 1 | 02/03/2024 1:05 | 01/12/2024 3:54 |
| 24011314-023A | A OMS-19 | NELAP | 1.0 | 2.2 | µg/L | 5 | 02/14/2024 7:27 | 01/12/2024 3:54 |
| 24011314-024A | A OMS-20 | NELAP | 1.0 | 7.1 | µg/L | 1 | 02/03/2024 1:10 | 01/12/2024 3:56 |
| 24011314-025A | A OMS-21 | NELAP | 1.0 | 26.2 | µg/L | 1 | 02/03/2024 1:34 | 01/12/2024 3:57 |
| 24011314-026A | A OMS-22 | NELAP | 1.0 | 3.0 | µg/L | 1 | 02/03/2024 1:39 | 01/12/2024 3:58 |
| 24011314-027A | A OMS-23 | NELAP | 1.0 | 8.0 | µg/L | 5 | 02/14/2024 7:31 | 01/12/2024 4:00 |
| 24011314-028A | A OMS-24 | NELAP | 1.0 | 6.7 | µg/L | 5 | 02/14/2024 7:35 | 01/12/2024 4:00 |
| 24011314-029A | A OMS-25 | NELAP | 1.0 | 6.9 | µg/L | 5 | 02/14/2024 7:40 | 01/12/2024 4:00 |
| 24011314-030A | A OMS-26 | NELAP | 1.0 | 4.8 | μg/L | 5 | 02/14/2024 7:44 | 01/12/2024 4:00 |
| 24011314-031 <i>A</i> | A OMS-27 | NELAP | 1.0 | < 1.0 | μg/L | 1 | 02/03/2024 1:43 | 01/12/2024 4:02 |
| 24011314-032 <i>A</i> | A OMS-28 | NELAP | 1.0 | 2.5 | μg/L | 1 | 02/03/2024 1:47 | 01/12/2024 4:03 |
| 24011314-033 <i>A</i> | OMS-29 | NELAP | 1.0 | 5.3 | µg/L | 1 | 02/03/2024 2:03 | 01/12/2024 4:03 |
| 24011314-034 <i>A</i> | A OMS-30 | NELAP | 1.0 | 4.4 | μg/L | 1 | 02/03/2024 1:51 | 01/12/2024 4:04 |
| 24011314-035A | OMS-31 | NELAP | 1.0 | 1.9 | μg/L | 1 | 02/03/2024 1:55 | 01/12/2024 4:04 |
| 24011314-036A | A OMS-32 | NELAP | 1.0 | < 1.0 | μg/L | 1 | 02/03/2024 1:59 | 01/12/2024 4:07 |
| 24011314-037A | OMS-33 | NELAP | 1.0 | < 1.0 | μg/L | 1 | 02/03/2024 2:28 | 01/12/2024 4:07 |
| 24011314-038A | OMS-34 | NELAP | 1.0 | < 1.0 | μg/L | 1 | 02/03/2024 2:32 | 01/12/2024 4:07 |
| 24011314-039A | OMS-35 | NELAP | 1.0 | < 1.0 | μg/L | 1 | 02/03/2024 2:37 | 01/12/2024 4:09 |
| 24011314-040A | A OMS-36 | NELAP | 1.0 | < 1.0 | μg/L | 1 | 02/03/2024 2:57 | 01/12/2024 4:09 |
| 24011314-041 <i>A</i> | A OMS-37 | NELAP | 1.0 | < 1.0 | μg/L | 1 | 02/03/2024 2:41 | 01/12/2024 4:10 |
| 24011314-042A | A OMS-38 | NELAP | 1.0 | < 1.0 | μg/L | 1 | 02/03/2024 2:45 | 01/12/2024 4:10 |
| 24011314-043 <i>A</i> | A LMS-01 | NELAP | 1.0 | < 1.0 | μg/L | 1 | 02/03/2024 2:49 | 01/12/2024 4:27 |
| 24011314-044 | A LMS-02 | NELAP | 1.0 | < 1.0 | μg/L | 1 | 02/03/2024 2:53 | 01/12/2024 4:28 |
| 24011314-045A | | NELAP | 1.0 | < 1.0 | μg/L | 1 | 02/03/2024 3:30 | 01/12/2024 4:28 |
| 24011314-046 <i>A</i> | | NELAP | 1.0 | < 1.0 | μg/L | 1 | 02/03/2024 3:35 | 01/12/2024 4:28 |
| 24011314-047 <i>A</i> | | NELAP | 1.0 | < 1.0 | μg/L | 1 | 02/03/2024 3:39 | 01/12/2024 4:28 |
| 24011314-048 <i>A</i> | | NELAP | 1.0 | < 1.0 | μg/L | 1 | 02/03/2024 3:43 | 01/12/2024 4:28 |



Laboratory Results

http://www.teklabinc.com/

Client: Geotechnology, Inc. Work Order: 24011314

Client Project: J044517.01 Report Date: 14-Feb-24

Matrix: DRINKING WATER

| Sample ID | Client Sample ID | Certification Qua | l RL | Result | Units | DF | Date Analyzed | Date Collected | | |
|---------------|---|-------------------|------|--------|-------|----|-----------------|-----------------------|--|--|
| EPA 600 4.1.4 | PA 600 4.1.4, 200.8 R5.4, METALS BY ICPMS (TOTAL) | | | | | | | | | |
| Lead | | | | | | | | | | |
| 24011314-049/ | A LMS-07 | NELAP | 1.0 | < 1.0 | μg/L | 1 | 02/03/2024 3:47 | 01/12/2024 4:28 | | |
| 24011314-050 | A LMS-08 | NELAP | 1.0 | 6.9 | μg/L | 1 | 02/03/2024 3:59 | 01/12/2024 4:31 | | |
| 24011314-051 | A LMS-09 | NELAP | 1.0 | < 1.0 | μg/L | 1 | 02/03/2024 3:51 | 01/12/2024 4:31 | | |
| 24011314-052 | A LMS-10 | NELAP | 1.0 | < 1.0 | μg/L | 1 | 02/03/2024 3:55 | 01/12/2024 4:32 | | |
| 24011314-053/ | A LMS-11 | NELAP | 1.0 | < 1.0 | μg/L | 1 | 02/03/2024 4:24 | 01/12/2024 4:32 | | |
| 24011314-054 | A LMS-12 | NELAP | 1.0 | < 1.0 | μg/L | 1 | 02/03/2024 4:28 | 01/12/2024 4:33 | | |
| 24011314-055/ | A LMS-13 | NELAP | 1.0 | < 1.0 | μg/L | 1 | 02/03/2024 4:33 | 01/12/2024 4:33 | | |
| 24011314-056 | A LMS-14 | NELAP | 1.0 | < 1.0 | μg/L | 1 | 02/03/2024 4:37 | 01/12/2024 4:34 | | |
| 24011314-057 | A LMS-15 | NELAP | 1.0 | < 1.0 | μg/L | 1 | 02/03/2024 4:41 | 01/12/2024 4:34 | | |
| 24011314-058/ | A LMS-16 | NELAP | 1.0 | < 1.0 | μg/L | 1 | 02/03/2024 4:45 | 01/12/2024 4:35 | | |
| 24011314-059/ | A LMS-17 | NELAP | 1.0 | < 1.0 | μg/L | 1 | 02/03/2024 4:49 | 01/12/2024 4:35 | | |
| 24011314-060 | A LMS-18 | NELAP | 1.0 | < 1.0 | μg/L | 1 | 02/03/2024 4:53 | 01/12/2024 4:37 | | |



NPDES/CWA TCN interferences checked/treated in the field?

Receiving Check List

http://www.teklabinc.com/

Work Order: 24011314 Client: Geotechnology, Inc. Client Project: J044517.01 Report Date: 14-Feb-24 Carrier: Employee Received By: NR Completed by: Onton Oblacco Reviewed by: On: On: 19-Jan-24 19-Jan-24 Amber Dilallo Ellie Hopkins Extra pages included 0 Pages to follow: Chain of custody Shipping container/cooler in good condition? Yes **V** No 🗔 Not Present Temp °C N/A Type of thermal preservation? **V** Ice _ Blue Ice None Dry Ice Chain of custody present? **~** No L Yes Chain of custody signed when relinquished and received? **~** Yes No L **~** Chain of custody agrees with sample labels? No 🗀 Yes **~** No 🗌 Samples in proper container/bottle? Yes **V** No 🗌 Sample containers intact? Yes Sufficient sample volume for indicated test? Yes **~** No **~** No \square All samples received within holding time? Yes NA 🗸 Field Lab \square Reported field parameters measured: Yes 🗸 No 🗌 Container/Temp Blank temperature in compliance? When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected. Water - at least one vial per sample has zero headspace? Yes 🗌 No 🗀 No VOA vials 🗸 No TOX containers Water - TOX containers have zero headspace? Yes No 🗌 Yes 🗹 No 🗌 Water - pH acceptable upon receipt?

Samples were checked for turbidity and then preserved with nitric acid upon arrival in the laboratory. - amberdilallo - 1/19/2024 11:05:42 AM

Yes

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

No 🗀

NA 🗹

pg. 19 of 74 Work order #240 1314

| | | | | | | | | | | | | | | | / | (| -, | | | | | | |
|---|--|-----------------|---------------------|---|--------------|---|-----------------|---------|----------------|--|---------------|-------------|--|---------|------|-----------|------------|--------|---|---|--|--|--|
| Client: Geotechnology, LLC | | | | | | | | | | Samples on: ICE BLUE ICE NO ICE NA °C LTG# | | | | | | | | | | | | | |
| Address: | 11816 Lackland I | Road | | *************************************** | ****** | | | P | res | erv | ed i | n: | LAB | FIELD ' | F | OR LAE | USE | DNLY | | and the second | | | |
| City / State | / Zip St. Louis, MO 63 | 146 | | | | *************************************** | | - 8 | | Not | | / | ' | | | | , | | | See | | | |
| Contact: | Brad Lohrum | ******** | _ Phone | e: (i | 314) 99 | 7-7440 | *** | 1 | | | | | | | | | | | | | | | |
| E-Mail: | blohrum@teamues.com | | _ Fax: | | | | | | : | 4.0 | | | L | | \$ Y | | | - | | · . | | | |
| A = 4b = = = = = = = 1 | - 1 | | | | | 7 | ₹ | _ | ien | TUC | omn | nen | is; | | | | | | | | | | |
| | s known to be involved in li s known to be hazardous? | | , a surcnarge No | will app | l y L | Yes | X No | | | | | | | | | | | | | | | | |
| Are there any requ | uired reporting limits to be: | met on the real | | is?. If ye | s, plea | se provid | de | | | | | | | | | | | | | | | | |
| | nent section. 🗌 Yes | No | | | | | | | | | | | | | | | | | | | | | |
| Project Name/Number Sample Collector's Name | | | | | | | | | | MATRIX INDICATE ANALYSIS REQUESTED | | | | | | | | | | | | | |
| 1040 | 1517.01 | Pr | rd la | hru | m | | | 1 | ַם | | S | ٦ | Wa | | | | | | | | | | |
| Result | s Requested | Billing Ins | tructions | # and | Туре | of Conta | iners | ≥ | Drinking Water | اِ | Special Waste | Groundwater | - | | | | | | | | | | |
| ` | 1-2 Day (100% Surcharge) | | | | 1 1 | | | Aqueous | | Soil | a | ī | Lead | | | | | | | | | | |
| Other | 3 Day (50% Surcharge) | | | UNPRES | taO | НСТ НСТ | OTHER NaHSO4 | ŭ | ₹. | _ Je | Vas | Vat | E200.8 | | | | | ĺ | | | | | |
| Lab Use Only | Sample Identification | Date/Tim | e Sampled | ES 3 | 4 + | | ¥ 72 | 2 | Ē, | | ਰ | 12 | 0.8 | | | | | | | | | | |
| 24011314 | JUS-108 | 1/11/24 | 7:25 | | | | | | V | | | | X | | | - Company | | | | | | | |
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| (D) | AAB T-L | | 1.40 | | | | | | XI. | | - | - | X | | | | | | | | | | |
| - 300 | 01/15 - 01 | 1/12/24 | 3;44 | | | | | | XI. | | | | X | | | | | | | | | | |
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| ())() | Relinquished By | | l | Date | /Time | | | / | | | 1 | R | eceive | ed By | | | Date | e/Time | | | | | |
| Deal len | Sun | | 1/15/ | | | | | •• | • | • | 12 | اً بـ | 10 | 4 | | 1/18 | <i>i</i> - | 2 | a pak | | | | |
| 1900 | DA III | | 110 | 124 | | 0:00 | | | 7 | | - / | y | A STATE OF THE PARTY OF THE PAR | () | | -/ | 24 | | | | | | |
| , , , , , , , , , , , , , , , , , , , | 1 y m | | 1/17 | 127 | | 0.00 | | | <u></u> | ~2 | 7 | | | | | 1/19/ | 67 | 101 | <u> </u> | | | | |
| | | | <u> </u> | | | | | | | | | | ····· | | | | | | *************************************** | | | | |
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pg. 20 of 74 Work order #24011314

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

| Client: | Geotechnology, | LLC | | | Sam | oles on: | ICE | BLUE ICE 🔳 NO I | OICEOC LTG# | | | | | | | |
|------------------|--|------------------------------|--|-----------|------------------------|----------------------|------------------------------|---|--------------------|------|--|--|--|--|--|--|
| Address: | 11816 Lackland | Road | | | | erved in | | | FOR LAB USE ONLY | | | | | | | |
| City / State | / Zip St. Louis, MO 6 | 3146 | | | Lab | Votes | | | | | | | | | | |
| Contact: | Brad Lohrum | Phone | (314) 997-7440 | | | | | | | | | | | | | |
| E-Mail: | blohrum@teamues.com | Fax: | | | Client | Comm | ents: | 2 | | - 4. | | | | | | |
| Are these sample | s known to be hazardous? uired reporting limits to be | met on the requested analysi | | • | | | | | | | | | | | | |
| Project | Name/Number | Sample Col | lector's Name | | M | ATRIX | | INDICATE A | ANALYSIS REQUESTED | | | | | | | |
| JOHL | [5]7.0] | Brad L | dirum | | D | S | ତ୍ର MG | | | | | | | | | |
| Result | s Requested | Billing Instructions | # and Type of Cont | ainers | <u> </u> | SI | <u>_</u> | | | | | | | | | |
| Other | 1-2 Day (100% Surcharge) 3 Day (50% Surcharge) | | # and Type of Cont MeOH HCL UNPRES | NaHS | Drinking Water Aqueous | Special Waste Sludge | W - Lead E200 Groundwater | | | | | | | | | |
| Lab Use Only | Sample Identification | Date/Time Sampled | | 오 # | <u>fer</u> | िक्र | E200.8 water | | | | | | | | | |
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| alle | 17 | 3:49 | The second secon | | | | $\langle \rangle$ | | | | | | | | | |
| ŌI) | 13 | 3:51 | | | X | | <i>X</i> | 1000 | | | | | | | | |
| OF | 14 | 3:54 | | | X | | 1 | | | | | | | | | |
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| 020 | + 16 | 1 + - | | | X | | X | | | | | | | | | |
| - 80 | Relinquished By | | Date/Time | | | | Receive | d By | Date/Time | | | | | | | |
| Prodley | Malin | 1/18/2 | <u>, 4 </u> | | | <u> </u> | 14/ | <i>,</i> | 1/18/24 | | | | | | | |
| ` \ | Ky Mo | 1/12/ | 24 10:0 | <i>70</i> | | // | ne | & Reed | 1/19/24 1012 | | | | | | | |
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BottleOrder:

pg.21 of 74 Work order #24011314

| Client: | Geotechnology, I | LLC | | Samples on: 🗵 ICE | BLUE ICE NO ICE | 10 ICE °C LTG# | | | | | | | | | |
|---------------------------------------|--|---|--|--|-----------------|---|--|--|--|--|--|--|--|--|--|
| Address: | 11816 Lackland | Road | | - 1 | | OR LAB USE ONLY | | | | | | | | | |
| City / State | St. Louis, MO 63 | 3146 | | Lab Notes | | <u> </u> | | | | | | | | | |
| Contact: | Brad Lohrum | Phon | a• (314) 997-7440 | Lab Notes | | ** - New York | | | | | | | | | |
| E-Mail: | blohrum@teamues.com | Fax: | | Client Comments: | 4 4 | | | | | | | | | | |
| Are these sample Are there any red | s known to be hazardous? uired reporting limits to be | itigation? If yes, a surcharge Yes No met on the requested analys No | • | | | | | | | | | | | | |
| Project | Name/Number | Sample Co | llector's Name | MATRIX | INDICATE ANA | ALYSIS REQUESTED | | | | | | | | | |
| Joy | 1517.01 | Brad | Chron | Dw Sp | | | | | | | | | | | |
| Result | s Requested 1-2 Day (100% Surcharge) | Billing Instructions | # and Type of Containers | W - Lead E200 Groundwater Special Waste Sludge Sludge Soil rinking Wate Aqueous | | | | | | | | | | | |
| Standard | 3 Day (50% Surcharge) | | | Lead I bundw cial W Sludg Soil king V | | | | | | | | | | | |
| Lab Use Only | Sample Identification | Date/Time Sampled | # and Type of Containers NaHSO4 HCL H2SO4 HNO3 UNPRES | DW - Lead E200.8 Groundwater Special Waste Sludge Sludge Soil Drinking Water Aqueous | | | | | | | | | | | |
| 2401)314; | Sample Identification | | | σ | | | | | | | | | | | |
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| 02) | 0M5-18 | | | | | | | | | | | | | | |
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| Bally | Vann | - 1/18 | 124 | ROU.D. | | | | | | | | | | | |
| | VAD MX | 1/18 | 14 10:00 | 1 En | ich Ken | 1/19/24 1012 | | | | | | | | | |
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pg. 22 of 74 Work order # 2401/314

| Client: | Geotechnology, I | LC | | Samples on: 📓 IC | E BLUEICE NOIC | E°C LTG# | | | | | | | | | |
|--------------------|---|--------------------------------|---|--|----------------|--|--|--|--|--|--|--|--|--|--|
| Address: | 11816 Lackland I | | | Preserved in: | | FOR LAB USE ONLY | | | | | | | | | |
| City / State | St. Louis, MO 63 | 3146 | | Lab Notes | | | | | | | | | | | |
| Contact: | Brad Lohrum | Phone | . (314) 997-7440 | Lab Notes | | | | | | | | | | | |
| E-Mail: | blohrum@teamues.com | Fax: | | 0 | | | | | | | | | | | |
| Are these comple | a known to be involved in t | itigation? If yes, a surcharge | | Client Comments: | | | | | | | | | | | |
| | s known to be involved in r | | will apply 🗌 Yes 🙇 No | | | | | | | | | | | | |
| Are there any requ | uired reporting limits to be | met on the requested analys | is?. If yes, please provide | | | | | | | | | | | | |
| | nent section. Yes | | | | | | | | | | | | | | |
| 1 | Name/Number | | llector's Name | MATRIX INDICATE ANALYSIS REQUESTED | | | | | | | | | | | |
| | 4517-01 | Brad o | rum | Sp Gg | | | | | | | | | | | |
| Result | s Requested 1-2 Day (100% Surcharge) | Billing Instructions | # and Type of Containers NaHSO4 MeOH HCL HNO3 UNPRES | Groundwater Special Waste Sludge Soil Drinking Water Aqueous | | | | | | | | | | | |
| Other | 3 Day (50% Surcharge) | | | oundwa ecial Wa Sludge Sludge Soil hking W | | | | | | | | | | | |
| | | | OTHER NaHSO4 MeOH HCL H2SO4 NaOH NO3 | water Waste Je | | | | | | | | | | | |
| Lab Use Only | Sample Identification | Date/Time Sampled | | | 6 | | | | | | | | | | |
| 4901813 | OMS - 27 | 1/12/24 4:02 | | X | | | | | | | | | | | |
| 0.22 | OMS-28 | 4.03 | | | | | | | | | | | | | |
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| 035 | 31 | 1 4 | | X | | The state of the s | | | | | | | | | |
| 036 | 32 | 11-07 | | | | | | | | | | | | | |
| 037 | 33 | | | | | | | | | | | | | | |
| 028 | 34 | | | | | | | | | | | | | | |
| | | 11-10 | | | | | | | | | | | | | |
| 039 | 35 | 4,01 | | | | | | | | | | | | | |
| 040 | Relinquished By | T | 'Date/Time | | | | | | | | | | | | |
| B. M.A | Reiniquisited by | , 1/4/ | 1 | Rece | ved By | Date/Time | | | | | | | | | |
| HOLLIN | | / (18) | | 7-9/14 | 5-10 | 1/18/24 | | | | | | | | | |
| 1 V | by 49 | <u> </u> | 124 10:00 | | nich Reed | 1/19/24 1012 | | | | | | | | | |
| | <u> </u> | | | | | | | | | | | | | | |
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pg. 23 of 74 Work order # 2401314

| <u> </u> | | | | | | | | | | | | | _ | | | | | | | • | | | | | ``` | | - | *************************************** | *********** | | ···· |
|---|-----------|------------------------|-----------|----------|--------|-----------|-----------|---------|-----------|------------------------------------|----------|----------|--------------|----------------|------------------|---------------|-------------|------|----------------------|------|----|----|---------------|-----------------|------|--------|------|---|-------------|----------|--------------|
| Client: | | Geotechnology, L | LC | | | | | | | | | | | | - | | | | | ■ BL | | 88 | NO IC | E | | | °C | LT | G# | | |
| Address: | | 11816 Lackland F | Road | | | | | | | | | | Р | res | erv | ed i | n:[| XX L | AB | FIE | LD | | | <u>F0</u> | RLA | AB US | SE O | <u>NLY</u> | | | 20074-02-000 |
| City / State | / Zip | St. Louis, MO 63 | 146 | | | | | | | | | | L | ab | Not | es | | | | | | | | | | | | | | | 2 |
| Contact: | Brad L | ohrum | | | Phone | e: | (3 | 14) 9 | 97-7 | 440 | | | | | | | | | | | | | | | | | | | | | 70.03 |
| E-Mail: | blohrur | m@teamues.com | | | Fax: | | _ | | | | | _ | Ci | ion | t Co | m | 10 F | te. | | | | | | | | | | | A | | *** |
| Are these samples known to be involved in litigation? If yes, a surcharge will apply Yes X No | | | | | | | | | | | | ┨~ | :CII | · | / 113 11 | ::C1 | ILJ. | | | | | | | | | | | | | | |
| | | to be hazardous? | | | | WIII | appi | , | ۱۰ لید | es | | VQ | | | | | | | | | | | | | | | | | | | |
| Are there any requ | uired rec | oorting limits to be i | net on th | | | is?. | If ye | s, ple | ase | prov | ide | | | | | | | | | | | | | | | | | | | | |
| | | tion. Yes 🔀 | No | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Name/Number Sample Collector's Name | | | | | | | | | | MATRIX INDICATE ANALYSIS REQUESTED | | | | | | | | | | | | | | | | | | | | | |
| J044517.01 Brod Lawrum | | | | | | | | | | | | | ļ | <u> </u> | Open contract of | v | , , | , | DW | | | | | | | | | No. | | | |
| Daniel | | | | | | | | | | | | | | <u> </u> | | ှ ဗြိ | | 3 | | | | | | | | | | | | | |
| Standard | | | | J | | | | | | | | | Aqueous | | Soil | 2 3 | | 3 | Lead | | | | | | | | | | | | |
| Other | 3 Da | ay (50% Surcharge) | | | | R | 충 | 5 5 | 3 5 | 8 | NaHSO4 | Ĭ | S S | Drinking Water | - 4 | Special Waste | Glouliuwate | | E200. | | | | | | | | | | | | |
| Lab Use Only | Sam | ple Identification | Dat | e/Time S | ampled | 5 | 3 | _ | | I | 2 | ~ | 1 | <u> </u> | | ਵਿੱ | . 5 | | 0,8 | | | | | | | | | | | | |
| 24011314 | OM | 5-37 | 1/12 | 124 | 4:10 | П | | | | | | | | X | | | | × | | | | | | | | | | | | | |
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| 014 | | 15-02 | 11 | | 1:28 | H | H | 十 | \dagger | t | Н | 1 | | \downarrow | + | \dagger | \dagger | 1 | <u>}</u> | | | | | \dashv | | + | | + | + | \vdash | \top |
| CUS | 1 | 03 | | | 1 | H | \Box | \top | t | t | H | ┪ | | 7 | \top | \dagger | \dagger | ď | 5 | | | | | $\neg \uparrow$ | | | | | † | T | + |
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| | | | | | 1 | ${\sf H}$ | ╁╌╁ | ┪ | ╫ | +- | ╁ | ┪ | | + | | + | - | × | \circlearrowleft | _ | ╂ | | $\overline{}$ | \dashv | | + | | + | \vdash | \vdash | +- |
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| OUK | | <u>0b</u> | ++ | | | ₩ | \vdash | | | ╄- | - | | | Хļ | | - | + | 4 | $\rightarrow \vdash$ | | | | | _ | | _ | | | ╄ | - | |
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| ₩ | 4 | nquished By | 1-1 | l | 1:3 | | | | | | | | 7 | <u> </u> | | | | 7 | X | | | | | | | | | | | | |
| /\ 0 | 4 | _ |)ate/ | Tim | è | | | 4 | | | | | F | ece | eivec | Ву | | | | | | | , | Time | | | - 36 | | | | |
| Fredley 8 1/18/24 | | | | | | | | | 1 | | | 14 | | <u> </u> | h | | | | | _// | 1 | 11 | <u> 8</u> , | <u>/ 2</u> | 4 | | | | | | |
| <u> </u> | | My 4 | 7/ | <u> </u> | 1/19 | 2 | <u>-y</u> | 1 | D | 0 | <u> </u> | \perp | | | | | | | 20 | ich | | Ke | 20 | l | 1/19 | 1/2 | 4 | 10 | 12 | | |
| | | <i>U</i> | V | | | | | | | | | \perp | | | | | | | | | | | (| | | | | | | | |
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pg. 24 of 74 Work order # 24011314

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

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|---|---------|-------------------------|---------------------------------------|------------|--------|----------|---|-------|------|--|----------|---------|--|------|-------------|---------------|-------------|--------|-----|------|---------|--------------|--|-----|----|-----|--------------------|------------|------|---|--|-----------|
| Client: Geotechnology, LLC | | | | | | | | | | Samples on: ICE BLUE ICE NO ICE CC LTG# Preserved in: LAB FIELD FOR LAB USE ONLY | | | | | | | | | | | | | | 900 | | | | | | | | |
| Address: | | 11816 Lackland Ro | ad | | | | | | | | | | Pre | ser | ved | in | # | LAB | | FIEL | D | | | F | OR | LAB | US | <u>E 0</u> | NLY | , - | | ******* |
| City / State | / Zip | St. Louis, MO 6314 | 16 | | | ******** | | | | , | ******** | | Lab | No | tes | | | | | | | | | | | | | | | | | 1 |
| Contact: | Brad Lo | ohrum | | Phone | :: | (3 | 314) | 997- | 7440 |) | | | | | | | | | | | | | | | | | | | | | | 44.44.0Mg |
| E-Mail: | blohrun | n@teamues.com | | _ Fax: | | _ | | | | | | 1 | lie | nt C | om | me | nts | • | | | | | | š ~ | | • | | - | | | | |
| Are these sample | known | to be involved in litic | ration? If yes | a curchama | nálí . | anni | 1, | П | Vec | X | No | 4 | <i>,</i> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | · · · · · · | 1110 | | • | | | | | | | | | | | | | | |
| Are these samples known to be involved in litigation? If yes, a surcharge will apply \(\bigcap \) Yes \(\bigcap \) No Are these samples known to be hazardous? \(\bigcap \) Yes \(\bigcap \) No | | | | | | | | | | ı | | | | | | | | | | | | | | | | | | | | | | |
| Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. Yes No | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Name/Number Sample Collector's Name | | | | | | | | | | MATRIX INDICATE ANALYSIS REQUESTED | | | | | | | | | | | | | | | | | | | | | | |
| Jo44517.01 Brad Lahrum | | | | | | | | | | Г | ₽ | | | S | 6 | DW | | | | | | | | | T | | | | | | | |
| Result: | _ | | Billing Ins | tructions | # | and | Тур | e of | Con | tain | ers | ∂ | Ž, | | 2 | pec | ē | | | | | | | | | | | | | | | |
| <i>I</i> | | (100% Suicharge) | | | | | | | | , z | 0 | uec | DO. | Soil | Sludge | | μď | Lead | | | | | | | | | | | | *************************************** | | |
| Other | 3 Da | sy (50% Surcharge) | | | NPR. | NO | á | H2SO4 | HC I | 뙲 | 뚩 | Aqueous | Drinking Water | | ĕ | Special Waste | Groundwater | E200.8 | | | | | | | | | | | | | | |
| Lab Use Only | Sam | ple Identification | Date/Time | e Sampled | ES | ω | _ | 4 | | . 4 | 77 | | Ē | | | ਰੰ | 4 | 0.8 | | | | | | | | | <u> </u> | | | | | |
| 24011365 | LM | 5-09 | 1/12/24 | 4:31 | 1 | | | | | | | | X | | | | | X | | | | | | | | | | | | | | |
| 052 | LM | 15-10 | <u> </u> | 4:32 | | | | | | | | | X | | | | | X | | | | | | | | | \perp | | - | | | |
| 053 | 1 | (1 | | + | | | | | | | | | X | | | | | X | | | | | | | | | | | - | | | |
| ₩Y | | 12 | | 4:33 | | | | | | | | | X | | | | | X | | | | | | | | | | | | | | |
| 055 | | 13 | | + | | | | | | | | | X | | | | | X | | | | | | | | | | | | | | |
| 076 | | 14 | | 4:34 | | | | | | | | | X | | | | | X | | | | | | | | | | | | | | |
| 05) | | 15 | | + | | | | | | | | | X | | | | | X | | | | | | | | | | | | | | |
| Q | | 16 | | 4:35 | | | *************************************** | | | | | | X | | | | | X | | | | | | | | | $oldsymbol{\perp}$ | | | | | |
| GC | | 17 | | + | | | | | | | | | X | | | | | X | | | | | | | | | | | | | | |
| OW | | - 15 | | 4:37 | | | | | | | | Г | X | | | | | X | | | | | | | | | | | | | | |
| | | quished By | · · · · · · · · · · · · · · · · · · · | | Ì | ate | /Tir | ne | | | | | | | | | Re | ceive | d B | / | | | | | | | Γ |)ate/ | /Tim | e | | |
| Break Oak | A | <u>~</u> | | 1/19/2 | 4 | | | | | | | | PD GO | | | | | | | | 1/18/24 | | | | | | | | | | | |
| | Z | 2040 | | 11/9 | /2 | 4 | l | 10 | 18 | 7 | | | Min Red | | | | | | | d | | 1/19/24 10/2 | | | | | | | | | | |
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BottleOrder:



February 15, 2024

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

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

RE: J044517.01 **WorkOrder:** 24011319

Dear Brad Lohrum:

TEKLAB, INC received 60 samples on 1/19/2024 10:00:00 AM for the analysis presented in the following report.

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

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

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

Sincerely,

Shelly A. Hennessy

Shelly A Hennessy

Project Manager

(618)344-1004 ex 36

SHennessy@teklabinc.com



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



Report Contents

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Work Order: 24011319

Client Project: J044517.01

Report Date: 15-Feb-24

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| Chain of Custody | Appended |



Definitions

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Work Order: 24011319

Client Project: J044517.01 Report Date: 15-Feb-24

Abbr Definition

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



Definitions

http://www.teklabinc.com/

Client: Geotechnology, Inc. Work Order: 24011319

Client Project: J044517.01 Report Date: 15-Feb-24

Qualifiers

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

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



Case Narrative

http://www.teklabinc.com/

Work Order: 24011319

Report Date: 15-Feb-24

Client: Geotechnology, Inc.

Cooler Receipt Temp: NA °C

Client Project: J044517.01

Locations

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



Accreditations

http://www.teklabinc.com/

Client: Geotechnology, Inc. Work Order: 24011319

Client Project: J044517.01 Report Date: 15-Feb-24

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



Laboratory Results

http://www.teklabinc.com/

Client: Geotechnology, Inc. Work Order: 24011319

Client Project: J044517.01 Report Date: 15-Feb-24

Matrix: DRINKING WATER

| | Client Sample ID | Certification Qu | al RL | Result | Units | DF | Date Analyzed | Date Collected |
|---------------|------------------|-------------------|-------|--------|-------|----|------------------|-----------------|
| _ | - | LS BY ICPMS (TOTA | | | | | J | |
| Lead | | | , | | | | | |
| 24011319-001A | LMS-19 | NELAP | 1.0 | 1.5 | μg/L | 1 | 02/02/2024 16:50 | 01/12/2024 4:38 |
| 24011319-002A | LMS-20 | NELAP | 1.0 | < 1.0 | μg/L | 1 | 02/02/2024 16:54 | 01/12/2024 4:38 |
| 24011319-003A | LMS-21 | NELAP | 1.0 | < 1.0 | μg/L | 1 | 02/02/2024 17:32 | 01/12/2024 4:38 |
| 24011319-004A | LMS-22 | NELAP | 1.0 | < 1.0 | μg/L | 1 | 02/03/2024 7:59 | 01/12/2024 4:38 |
| 24011319-005A | LMS-23 | NELAP | 1.0 | 3.4 | μg/L | 5 | 02/14/2024 17:16 | 01/12/2024 4:40 |
| 24011319-006A | LMS-24 | NELAP | 1.0 | 1.6 | μg/L | 5 | 02/14/2024 17:21 | 01/12/2024 4:40 |
| 24011319-007A | LMS-25 | NELAP | 1.0 | 1.2 | μg/L | 1 | 02/07/2024 16:31 | 01/12/2024 4:40 |
| 24011319-008A | LMS-26 | NELAP | 1.0 | < 1.0 | μg/L | 5 | 02/14/2024 17:29 | 01/12/2024 4:40 |
| 24011319-009A | LMS-27 | NELAP | 1.0 | 1.7 | μg/L | 5 | 02/14/2024 17:38 | 01/12/2024 4:40 |
| 24011319-010A | LMS-28 | NELAP | 1.0 | 4.7 | μg/L | 5 | 02/14/2024 17:25 | 01/12/2024 4:40 |
| 24011319-011A | LMS-29 | NELAP | 1.0 | 3.4 | μg/L | 1 | 02/03/2024 9:00 | 01/12/2024 4:42 |
| 24011319-012A | LMS-30 | NELAP | 1.0 | < 1.0 | μg/L | 5 | 02/14/2024 17:34 | 01/12/2024 4:42 |
| 24011319-013A | LMS-31 | NELAP | 1.0 | < 1.0 | μg/L | 1 | 02/03/2024 8:34 | 01/12/2024 4:43 |
| 24011319-014A | LMS-32 | NELAP | 1.0 | 1.1 | μg/L | 1 | 02/03/2024 8:38 | 01/12/2024 4:43 |
| 24011319-015A | LMS-33 | NELAP | 1.0 | 2.0 | μg/L | 1 | 02/03/2024 8:42 | 01/12/2024 4:45 |
| 24011319-016A | LMS-34 | NELAP | 1.0 | 2.1 | μg/L | 5 | 02/14/2024 18:04 | 01/12/2024 4:45 |
| 24011319-017A | LMS-35 | NELAP | 1.0 | < 1.0 | μg/L | 1 | 02/03/2024 8:47 | 01/12/2024 4:46 |
| 24011319-018A | LMS-36 | NELAP | 1.0 | 1.0 | μg/L | 1 | 02/03/2024 8:51 | 01/12/2024 4:47 |
| 24011319-019A | LMS-37 | NELAP | 1.0 | 1.0 | μg/L | 5 | 02/14/2024 18:08 | 01/12/2024 4:47 |
| 24011319-020A | LMS-38 | NELAP | 1.0 | 2.0 | μg/L | 5 | 02/14/2024 18:13 | 01/12/2024 4:47 |
| 24011319-021A | LMS-39 | NELAP | 1.0 | < 1.0 | μg/L | 1 | 02/03/2024 10:05 | 01/12/2024 4:47 |
| 24011319-022A | LMS-40 | NELAP | 1.0 | < 1.0 | μg/L | 1 | 02/07/2024 16:34 | 01/12/2024 4:51 |
| 24011319-023A | LMS-41 | NELAP | 1.0 | < 1.0 | μg/L | 1 | 02/03/2024 9:35 | 01/12/2024 4:52 |
| 24011319-024A | LMS-42 | NELAP | 1.0 | 2.1 | μg/L | 5 | 02/14/2024 18:17 | 01/12/2024 4:54 |
| 24011319-025A | LMS-43 | NELAP | 1.0 | 1.7 | μg/L | 5 | 02/14/2024 18:21 | 01/12/2024 4:54 |
| 24011319-026A | LMS-44 | NELAP | 1.0 | 2.7 | μg/L | 5 | 02/14/2024 18:26 | 01/12/2024 4:54 |
| 24011319-027A | LMS-45 | NELAP | 1.0 | 2.0 | μg/L | 5 | 02/14/2024 18:30 | 01/12/2024 4:54 |
| 24011319-028A | LMS-46 | NELAP | 1.0 | 2.0 | μg/L | 1 | 02/07/2024 16:38 | 01/12/2024 4:55 |
| 24011319-029A | LMS-47 | NELAP | 1.0 | < 1.0 | μg/L | 1 | 02/03/2024 9:43 | 01/12/2024 4:55 |
| 24011319-030A | LMS-48 | NELAP | 1.0 | 4.8 | μg/L | 1 | 02/03/2024 9:47 | 01/12/2024 4:56 |
| 24011319-031A | LMS-49 | NELAP | 1.0 | < 1.0 | μg/L | 1 | 02/07/2024 16:42 | 01/12/2024 4:56 |
| 24011319-032A | LMS-50 | NELAP | 1.0 | < 1.0 | μg/L | 1 | 02/07/2024 17:04 | 01/12/2024 4:57 |
| 24011319-033A | LMS-51 | NELAP | 1.0 | < 1.0 | μg/L | 1 | 02/03/2024 9:56 | 01/12/2024 4:57 |
| 24011319-034A | LMS-52 | NELAP | 1.0 | 1.1 | μg/L | 1 | 02/03/2024 10:00 | 01/12/2024 4:58 |
| 24011319-035A | LMS-53 | NELAP | 1.0 | 1.1 | μg/L | 1 | 02/07/2024 17:08 | 01/12/2024 4:58 |
| 24011319-036A | LMS-54 | NELAP | 1.0 | < 1.0 | μg/L | 1 | 02/07/2024 17:11 | 01/12/2024 4:59 |
| 24011319-037A | LMS-55 | NELAP | 1.0 | < 1.0 | μg/L | 1 | 02/07/2024 17:15 | 01/12/2024 4:59 |
| 24011319-038A | LMS-56 | NELAP | 1.0 | 3.5 | μg/L | 1 | 02/07/2024 17:18 | 01/12/2024 5:00 |
| 24011319-039A | LMS-57 | NELAP | 1.0 | 1.3 | μg/L | 1 | 02/07/2024 17:29 | 01/12/2024 5:00 |
| 24011319-040A | LMS-58 | NELAP | 1.0 | 6.5 | μg/L | 1 | 02/07/2024 17:33 | 01/12/2024 5:00 |
| 24011319-041A | LMS-59 | NELAP | 1.0 | < 1.0 | μg/L | 1 | 02/07/2024 17:37 | 01/12/2024 0:00 |
| 24011319-042A | LMS-60 | NELAP | 1.0 | < 1.0 | μg/L | 1 | 02/07/2024 17:51 | 01/12/2024 0:00 |
| 24011319-043A | LMS-61 | NELAP | 1.0 | < 1.0 | μg/L | 1 | 02/07/2024 17:55 | 01/12/2024 0:00 |
| 24011319-044A | LMS-62 | NELAP | 1.0 | < 1.0 | μg/L | 1 | 02/07/2024 17:59 | 01/12/2024 0:00 |
| 24011319-045A | LMS-63 | NELAP | 1.0 | 1.5 | μg/L | 5 | 02/15/2024 11:21 | 01/12/2024 0:00 |
| 24011319-046A | LMS-64 | NELAP | 1.0 | < 1.0 | μg/L | 5 | 02/14/2024 18:34 | 01/12/2024 0:00 |
| 24011319-047A | LMS-65 | NELAP | 1.0 | 1.9 | μg/L | 5 | 02/14/2024 18:39 | 01/12/2024 0:00 |
| 24011319-048A | LMS-66 | NELAP | 1.0 | < 1.0 | μg/L | 1 | 02/07/2024 18:02 | 01/12/2024 0:00 |



Laboratory Results

http://www.teklabinc.com/

Client: Geotechnology, Inc. Work Order: 24011319

Client Project: J044517.01 Report Date: 15-Feb-24

Matrix: DRINKING WATER

| Sample ID | Client Sample ID | Certification Qual | RL | Result | Units | DF | Date Analyzed | Date Collected |
|---------------|---------------------|---------------------|-----|--------|-------|----|------------------|-----------------|
| EPA 600 4.1.4 | 4, 200.8 R5.4, META | LS BY ICPMS (TOTAL) | | | | | | |
| Lead | | | | | | | | |
| 24011319-049 | A LMS-67 | NELAP | 1.0 | 1.6 | μg/L | 1 | 02/07/2024 18:06 | 01/12/2024 0:00 |
| 24011319-050 | A LMS-68 | NELAP | 1.0 | 2.8 | μg/L | 5 | 02/14/2024 18:43 | 01/12/2024 0:00 |
| 24011319-051 | A LMS-69 | NELAP | 1.0 | < 1.0 | μg/L | 1 | 02/07/2024 18:17 | 01/12/2024 5:06 |
| 24011319-052 | A LMS-70 | NELAP | 1.0 | < 1.0 | μg/L | 1 | 02/07/2024 18:21 | 01/12/2024 5:06 |
| 24011319-053 | A LMS-71 | NELAP | 1.0 | < 1.0 | μg/L | 1 | 02/07/2024 18:24 | 01/12/2024 5:07 |
| 24011319-054 | A LMS-72 | NELAP | 1.0 | < 1.0 | μg/L | 1 | 02/07/2024 18:39 | 01/12/2024 5:07 |
| 24011319-055 | A LMS-73 | NELAP | 1.0 | 2.7 | μg/L | 1 | 02/07/2024 18:43 | 01/12/2024 5:08 |
| 24011319-056 | A LMS-74 | NELAP | 1.0 | 3.7 | μg/L | 1 | 02/07/2024 18:46 | 01/12/2024 5:08 |
| 24011319-057 | A LMS-75 | NELAP | 1.0 | 3.5 | μg/L | 1 | 02/07/2024 18:50 | 01/12/2024 5:08 |
| 24011319-058 | A LMS-76 | NELAP | 1.0 | 2.5 | μg/L | 1 | 02/07/2024 19:01 | 01/12/2024 5:11 |
| 24011319-059 | A LMS-77 | NELAP | 1.0 | 2.7 | μg/L | 1 | 02/07/2024 19:05 | 01/12/2024 5:11 |
| 24011319-060 | A LMS-78 | NELAP | 1.0 | 3.2 | μg/L | 1 | 02/07/2024 19:08 | 01/12/2024 5:11 |



Receiving Check List

http://www.teklabinc.com/

Work Order: 24011319 Client: Geotechnology, Inc. Client Project: J044517.01 Report Date: 15-Feb-24 Carrier: Employee Received By: MEK Completed by: Reviewed by: Mary E. Kemp On: On: 19-Jan-24 19-Jan-24 Mary E Kemp Ellie Hopkins Extra pages included 0 Pages to follow: Chain of custody Shipping container/cooler in good condition? Yes **✓** No 🗔 Not Present Temp °C NA Type of thermal preservation? **V** Ice _ Blue Ice None Dry Ice Chain of custody present? **~** No L Yes Chain of custody signed when relinquished and received? **~** Yes No L **~** Chain of custody agrees with sample labels? No 🗀 Yes **~** No 🗌 Samples in proper container/bottle? Yes **V** No 🗌 Sample containers intact? Yes Sufficient sample volume for indicated test? Yes **~** No **~** No \square All samples received within holding time? Yes NA 🗸 Field Lab Reported field parameters measured: Yes 🗸 No 🗌 Container/Temp Blank temperature in compliance? When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected. Water - at least one vial per sample has zero headspace? Yes 🗌 No 🗀 No VOA vials 🗸 No TOX containers Water - TOX containers have zero headspace? Yes No 🗌 Yes 🗹 No 🗌 Water - pH acceptable upon receipt? NA 🗹 NPDES/CWA TCN interferences checked/treated in the field? Yes No 🗀

Samples were checked for turbidity and then preserved with nitric acid upon arrival in the laboratory. - MaryKemp - 1/19/2024 10:54:20 AM

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

pg. 25 of 74 Work order # <u>a4011319</u>

| | | | | | | | | | | | | | | _ | | | | | | | | | | • | | | | | | - | | | | - |
|--------------|---------|--------------|----------------------------|--|----------|--|-------------------|--------------|--------|----------|------------|--------------|---------------|--------------|----------------------|--------------|------|---------------|----------------|--|--------------|---|-------|----------|--|--------------|---------------|--|----------|---------------|----------|------------|---|------------------|
| Client: | | | Geotechnology, L | LC | | | | | | | | | | _ [| Sa | mp | les | on | : [| ICE | | BLU | E ICI | X | NO | CE | \mathcal{L} | V± | 土。 | °C | LTG | # _ | | <u>.</u> |
| Addres | s: | | 11816 Lackland F | toad | | | | | | | | | | | Pre | ese | :rve | ed ir | ı:X | LAB | ፠ | FIE | .D | / | | <u>F</u> | OR I | LAB | USE | ON | LY | | | 4252 Dec |
| City / S | tate | / Zip | St. Louis, MO 63 | 146 | | | | | | | | | | | La | bΝ | lote | es | / | • | | | | | | | | | | | | | - | 300 |
| Contac | :t: | Brad L | ohrum | | | Phon | e: | (| 314) | 997 | -744 | 40 | | | | | | | | | | | | | | | | | | | | | | * Samples |
| E-Mail: | : | blohrur | m@teamues.com | | | Fax: | | | | | | | | _ | Clic | nt | Co | mm | a nt | e. | | | | | | | | | | | | | *************************************** | 3000 |
| Are these s | amples | knoum | to be involved in lif | igation? If | V00 0 01 | ırcharaa | neill | 000 | £., | П | Voo | 5 | Z' N. | _ | • | -111 | • | 116111 | CIIL | J. | | | | | | | | | | | | | | |
| | | | to be hazardous? | | | ai Grierye | AR111 | ahh | · y | | 163 | , , | 34 180 | 1 | | | | | | | | | | | | | | | | | | | | |
| Are there as | ny requ | ired rep | orting limits to be r | net on the | | d analys | sis?. | if ye | es, p | leas | e pr | ovide | ; | ı | | | | | | | | | | | | | | | | | | | | |
| | | | tion. Yes | -No | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | ****** |
| | | | /Number | | - | pie Co | | | | | | | | L | | MA | \TR | XIX | | | | | IN | DICA | TE. | ANA | LYS | IS R | EQU | EST | ED | | ********** | |
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| | | | uested (100% Surcharge) | Billing | Instru | ctions | # | and | Ту | pe o | f Co | ntair | ners |]≽ | Drinking Water | | 2 | Special Waste | Groundwater | | | | | | | | | | | | | | | |
| <u> </u> | | | 1 | _ | | | | 1 | | t I | - 1 | - 2 | ه اج | uec | 100 | Soil | de | <u>a</u> | γbα | Lead | | | | | | | | | | | | | | |
| Other _ | | 3 Da | sy (50% Surcharge) | | | | PR | HN03 | lao | 25 | 뒫 | 8 3 | OTHER | ŝ | ₩a | | e | Vas | vate | E200.8 | | | | | | | | | | | | | | |
| Lab Use (| Only | Sam | ple Identification | Date/ | Time Sa | mpled | S | " | _ | 4 | | <u> </u> | <u>~</u> [`` | | er Eer | | | िक | 14 | 0.8 | | | | | | | | | | | | | | |
| 24011319 | ÓC I | Ln | 15-19 | 1/12/ | 24 4 | :36 | | | | | | | | | X | | | | | X | | | | | | | | | | | | | | |
| (| 202 | LN | 15-20 | 1 , | | ì | | | | | | | | | X | | | | | $ \chi $ | | | | | | | | | | | | | | |
| 1 6 | 203 | 1 | 21 | | | | - | | | | | | | | X | Ţ | Τ | | | \nearrow | | | | | | | | | | | | | | |
| 1 | 04 | | 22 | | ب. | 1 | | | | | | | | T | K | T | T | T | | X | | | | | | | | | | \vdash | | | | |
| | 200 | | 23 | | L | (;40 | \parallel | T | | | 1 | 1 | T | T | X | 1 | 1 | T | Г | X | | | | | | | | \vdash | T | \Box | | | | _ |
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| | | Geotechnology, LI | C | | | | | | _ | | | Ť | 90. | | | | 826 | ICE | BL | IE ICI | = [557] | NO I | CE | | • | , | C. | . T.C | | No. |
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| Contact: E-Mail: | | m@teamues.com | | _ Phone | ∌: | | , 1 - 17 | | 1 1 1 1 | | | · | | | | | | | | | | | | : | | ; | | | | |
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| City / State | / Zip | St. Louis, MO 63 | 146 | | | | | | | | | _ | Ţ | _ab | No | ote | s | | | | | | | | | | | | | | *************************************** |
| Contact: | Brad Lo | hrum | | Phone | =:- ≥: | (| (314 | 997 (| 7-74 | 40 | | | | | | | | | | | | | | | | | | | | | |
| E-Mail: | biohrun | n@teamues.com | | Fax: | | _ | | | | | | | | منا | nt (| ^۸۲ | nm | onf | | | | | ν, | | - | | ż | | | 100000000000000000000000000000000000000 | |
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| | | | | | _ | | | | 7 | | irer | nt C | omi | me | nts | • | | | | | | | | | | | | |
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TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005

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| Address: | | 11816 Lackland F | Road | | | | | | | | | | Pre | se | rve | d in | 2 | LAB | ∭ FI | ELD | | | <u>F</u> | OR L | AB I | USE | ONL | <u>.Y</u> | | Authorities 12 |
| City / State | / Zip | St. Louis, MO 63 | 146 | | | | | | | | | | Lal | b N | ote | s | | | | | | | | | | | | | | i de la companya de l |
| Contact: | Brad L | | | Pho | ne: | | (314 | 997 (| -744 | 10 | | | | | | | | | | | | | | | | | | | | - Common of the |
| E-Mail: | blohrur | m@teamues.com | | Fax | : | - | | | | | | . | Clie | nf (| Cor | nm | ent | s: | | | | - · · · | | | | | | | | |
| Are these samples Are there any requilimits in the comm | s knowr uired rep ent sec | n to be involved in line to be hazardous? corting limits to be ton. Yes | Yes | No e requested ana | lysis' | ?. If y | es, į | oleas | e pro | Z ovide | ` | _ | | | | | | | | | | | | | | | | | | |
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| + 05D | Polin | りる equished By | | | | Dat | | <u></u> | | | | L | ĮΧ | <u> </u> | _ | | Pr | ceiye | d By | | | | <u> </u> | | | Da | te/Tir | | | |
| Branlla | A A | Iquisiled by | | 1/10 | | | e/ I I | HIE | | | | ļ | | | Ĩ | _ | 1 | Ille 2 | <u>и Бу</u> | | | | + | 1/1- | 23/ | ر ارسار | | HC | , | |
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BottleOrder:

pg. 30 of 74 Work order # 24011319

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| Client: | | Geotechnology, Li | .c | | | | | | | | | | Sar | mpl | es | on: | 驟 | ICE | S | BLUE | ICE | 靈 | NO | CE | _ | | | °C | | LTG | # | de facción de |
| Address: | | 11816 Lackland R | | | | | | | | | | | Рге | ser | ve | d in | · 🍇 | LAE | E F | FIELD |) | | | <u>F</u> | OR | LAE | US | <u>E 0</u> | <u>NL</u> | <u>Y</u> | | -2000 |
| City / State | / Zip | St. Louis, MO 631 | 46 | | | | | | | | | | Lat | o No | ote | s | | | | | | | | | | | | | | | | |
| Contact: | Brad Lo | ohrum | | Phon | e: | (| 314 | 997- | 744 | 0 | | | | | | | | | | | | | | | | | | | | | | The second second |
| E-Mail: | blohrun | n@teamues.com | | Fax: | | | | | | | | 1 | :lie | nf (| :or | nme | enf | e. | | | | | | | | | | | | | | |
| Are these samples | known | to be involved in lit | igation? If | voc a curchara | s sadill | ann | lv. | П | /oc | | No. | _ | 7 11C | | ,,,, | . 1. 1. 1. | | J. | | | | | | | | | | | | | | |
| Are these samples | known | to be hazardous? | Yes | √ No | | | | | | | , 140 | ı | | | | | | | | | | | | | | | | | | | | |
| Are there any requ | ired rep | oorting limits to be m tion. 🏻 Yes 😾 | et on the | requested analy | sis?. | If ye | es, p | lease | pro | vide | | ı | | | | | | | | | | | | | | | | | | | | |
| | | | No | | | | | | | | | Ļ | | | | | | | | | | | | | | | | | *************************************** | | *************************************** | |
| Project I | | . 1 | | Sample Co | 1 | • | | | | | | L | <u> </u> | MΑ | R | X | | <u> </u> | | | IND | NCA | TE | AN/ | ALY: | SIS | REQ | UES | STE | :D | | T *** |
| byg | | | | Bra | ما | <u>}\\</u> | () | \sqrt{N} | | | | | Dr. | | *************************************** | Sg | ବ୍ର | DW- | | | | | | | | | | | | | | |
| Results Standard | Requ | uested | Billing | Instructions | # | and | Ту | pe of | Cor | ntaine | ers | ₫ | | | SI | ecia | 5 | <u>-</u> Ге | | | | | | | | | | | | l | | |
| 1/ | | | | | Ιş | Ξ | z | 핅. | ╻┃┋ | Z a | 2 | DW - Lead E200.8 Groundwater Special Waste Sludge Soil Drinking Water Aqueous | | | | | | | | | | | | | | | | | THAT THE A | | | |
| | | ıy (50% Surcharge) | | | | NO3 | 오 | SO S | ֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֡֓֓֡֓֡֓֡֓֡֡֓֡֓֡֓֡ | SIS | 표 | S | Vat | | P | ast | ate | 200 | | | | | | | | | | | Maridanaha | | | |
| Lab Use Only | Sam | ple Identification | Date | Time Sampled | ľ | | | | | 4 | | L | 12 | | | rp | | 8. | | | | | | | | | | | | | | - |
| 24011319-651 | Im. | 5-69 | 1/12/ | 24 5:0b | Ц | | | | | | | | X | 1_ | | | | X | | | | | | | $oldsymbol{\perp}$ | | | \bot | | | | <u> </u> |
| 1 652 | LM | 5-70 | | + | | | | | | | | | K | | | | | \mathcal{K} | | | | | | | | | | | | | | |
| 053 | - | 71 | | 5:07 | | | | | | | | | X | | | | | χ^{\times} | | | | | | | | | | | | | | L. |
| 054 | | 77. | | 7 | | | | | | | | | X | | | | | X | | | | | | | | | | | | | | |
| 055 | | <u>73</u> | | 5:08 | | | | | | | | | 7 | | | | | χ | | | | | | | | | | | | | | |
| 056 | | 74 | | | \prod | | | | | | | | X | | | | | χ | | | | | | | | | | | | | | |
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| 058 | | 76 | | 5:11 | | | | | | | | | K | | | | | X | | | | | | | | | | | | | | |
| 059 | | 77 | | 1 | П | | | | T | | | | K | | | | | X | | | | | | | | | | | | | | |
| N 060 | | . 74 | | | П | | | | Τ | | | | X | | | | | X | | | | | | | | | T | | | | | |
| ^ | Relin | quished By | | | Í | Date | /Ti | me | | | | Received By | | | | | | | | | | | | | | | |)ate | /Tin | ne | | 198 |
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100226

E-10374

05002

05003

9978

Illinois

Kansas

Louisiana

Louisiana

Oklahoma



February 14, 2024

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

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

RE: J044517.01 **WorkOrder:** 24011320

Dear Brad Lohrum:

TEKLAB, INC received 60 samples on 1/19/2024 10:00:00 AM for the analysis presented in the following report.

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

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

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

Sincerely,

Shelly A. Hennessy

Shelly A Hennessy

Project Manager

(618)344-1004 ex 36

SHennessy@teklabinc.com



Report Contents

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Work Order: 24011320

Client Project: J044517.01

Report Date: 14-Feb-24

This reporting package includes the following:

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



Definitions

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Work Order: 24011320

Client Project: J044517.01 Report Date: 14-Feb-24

Abbr Definition

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



Definitions

http://www.teklabinc.com/

Client: Geotechnology, Inc. Work Order: 24011320

Client Project: J044517.01 Report Date: 14-Feb-24

Qualifiers

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

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



Case Narrative

http://www.teklabinc.com/

Work Order: 24011320

Report Date: 14-Feb-24

Client: Geotechnology, Inc.

Cooler Receipt Temp: NA °C

Client Project: J044517.01

Locations

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



Accreditations

http://www.teklabinc.com/

Client: Geotechnology, Inc. Work Order: 24011320

Client Project: J044517.01 Report Date: 14-Feb-24

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



Laboratory Results

http://www.teklabinc.com/

Client: Geotechnology, Inc. Work Order: 24011320

Client Project: J044517.01 Report Date: 14-Feb-24

Matrix: DRINKING WATER

| Sample ID | Client Sample ID | Certification Qual | RL | Result | Units | DF | Date Analyzed | Date Collected |
|---------------|--------------------|---------------------|-----|--------|-------|----|------------------|-----------------|
| EPA 600 4.1.4 | , 200.8 R5.4, META | LS BY ICPMS (TOTAL) | | | | | | |
| Lead | | | | | | | | |
| 24011320-001A | LMS-79 | NELAP | 1.0 | < 1.0 | μg/L | 1 | 02/09/2024 5:19 | 01/12/2024 5:12 |
| 24011320-002A | LMS-80 | NELAP | 1.0 | 2.3 | μg/L | 1 | 02/02/2024 20:27 | 01/12/2024 5:12 |
| 24011320-003A | LMS-81 | NELAP | 1.0 | 2.9 | μg/L | 1 | 02/02/2024 20:31 | 01/12/2024 5:13 |
| 24011320-004A | LMS-82 | NELAP | 1.0 | 3.0 | μg/L | 1 | 02/02/2024 20:35 | 01/12/2024 5:13 |
| 24011320-005A | LMS-83 | NELAP | 1.0 | 2.4 | μg/L | 1 | 02/02/2024 20:38 | 01/12/2024 5:14 |
| 24011320-006A | LMS-84 | NELAP | 1.0 | < 1.0 | μg/L | 1 | 02/02/2024 20:49 | 01/12/2024 5:14 |
| 24011320-007A | LMS-85 | NELAP | 1.0 | 2.2 | μg/L | 5 | 02/12/2024 16:18 | 01/12/2024 5:15 |
| 24011320-008A | LMS-86 | NELAP | 1.0 | < 1.0 | μg/L | 5 | 02/12/2024 16:52 | 01/12/2024 5:15 |
| 24011320-009A | LMS-87 | NELAP | 1.0 | 1.6 | μg/L | 5 | 02/12/2024 16:57 | 01/12/2024 5:16 |
| 24011320-010A | LMS-88 | NELAP | 1.0 | < 1.0 | μg/L | 1 | 02/03/2024 5:18 | 01/12/2024 5:16 |
| 24011320-011A | LMS-89 | NELAP | 1.0 | < 1.0 | μg/L | 1 | 02/03/2024 5:22 | 01/12/2024 5:17 |
| 24011320-012A | A LMS-90 | NELAP | 1.0 | < 1.0 | μg/L | 1 | 02/03/2024 5:26 | 01/12/2024 5:17 |
| 24011320-013A | LMS-91 | NELAP | 1.0 | < 1.0 | μg/L | 1 | 02/03/2024 5:31 | 01/12/2024 5:18 |
| 24011320-014A | LMS-92 | NELAP | 1.0 | 1.3 | μg/L | 1 | 02/03/2024 5:47 | 01/12/2024 5:18 |
| 24011320-015A | | NELAP | 1.0 | < 1.0 | μg/L | 5 | 02/12/2024 17:01 | 01/12/2024 5:19 |
| 24011320-016A | LMS-94 | NELAP | 1.0 | < 1.0 | μg/L | 1 | 02/03/2024 5:35 | 01/12/2024 5:19 |
| 24011320-017A | | NELAP | 1.0 | 1.1 | μg/L | 1 | 02/03/2024 5:39 | 01/12/2024 5:20 |
| 24011320-018A | | NELAP | 1.0 | < 1.0 | μg/L | 1 | 02/03/2024 5:43 | 01/12/2024 5:20 |
| 24011320-019A | | NELAP | 1.0 | 1.6 | μg/L | 1 | 02/03/2024 6:12 | 01/12/2024 5:20 |
| 24011320-020A | | NELAP | 1.0 | 6.1 | μg/L | 5 | 02/08/2024 12:41 | 01/12/2024 5:20 |
| 24011320-021A | | NELAP | 1.0 | < 1.0 | μg/L | 1 | 02/03/2024 6:16 | 01/12/2024 5:21 |
| 24011320-022A | | NELAP | 1.0 | < 1.0 | μg/L | 1 | 02/03/2024 6:20 | 01/12/2024 5:21 |
| 24011320-023A | | NELAP | 1.0 | 1.0 | μg/L | 1 | 02/03/2024 6:24 | 01/12/2024 5:23 |
| 24011320-024A | | NELAP | 1.0 | < 1.0 | μg/L | 1 | 02/06/2024 3:16 | 01/12/2024 5:23 |
| 24011320-025A | | NELAP | 1.0 | 4.4 | μg/L | 1 | 02/06/2024 3:19 | 01/12/2024 5:24 |
| 24011320-026A | | NELAP | 1.0 | 1.9 | μg/L | 5 | 02/08/2024 11:27 | 01/12/2024 5:24 |
| 24011320-027A | | NELAP | 1.0 | 15.2 | μg/L | 5 | 02/08/2024 11:32 | 01/12/2024 5:24 |
| 24011320-028A | | NELAP | 1.0 | < 1.0 | μg/L | 1 | 02/06/2024 3:23 | 01/12/2024 5:26 |
| 24011320-029A | | NELAP | 1.0 | < 1.0 | μg/L | 1 | 02/06/2024 3:27 | 01/12/2024 5:26 |
| 24011320-030A | | NELAP | 1.0 | < 1.0 | μg/L | 1 | 02/06/2024 3:30 | 01/12/2024 5:26 |
| 24011320-031A | | NELAP | 1.0 | < 1.0 | μg/L | 1 | 02/09/2024 4:55 | 01/12/2024 5:26 |
| 24011320-032A | | NELAP | 1.0 | 1.1 | μg/L | 1 | 02/06/2024 20:40 | 01/12/2024 5:29 |
| 24011320-033A | | NELAP | 1.0 | < 1.0 | μg/L | 1 | 02/09/2024 4:59 | 01/12/2024 5:29 |
| 24011320-034A | | NELAP | 1.0 | < 1.0 | µg/L | 1 | 02/06/2024 21:15 | 01/12/2024 5:32 |
| 24011320-035A | | NELAP | 1.0 | < 1.0 | μg/L | 1 | 02/09/2024 5:03 | 01/12/2024 5:32 |
| 24011320-036A | | NELAP | 1.0 | 4.3 | μg/L | 1 | 02/06/2024 21:23 | 01/12/2024 5:32 |
| 24011320-037A | | NELAP | 1.0 | < 1.0 | µg/L | 1 | 02/06/2024 21:28 | 01/12/2024 5:47 |
| 24011320-038A | | NELAP | 1.0 | < 1.0 | µg/L | 1 | 02/06/2024 21:32 | 01/12/2024 5:47 |
| 24011320-039A | | NELAP | 1.0 | 7.8 | µg/L | 5 | 02/08/2024 11:36 | 01/12/2024 5:47 |
| 24011320-040A | | NELAP | 1.0 | 1.3 | µg/L | 1 | 02/06/2024 21:36 | 01/12/2024 5:47 |
| 24011320-041A | | NELAP | 1.0 | < 1.0 | µg/L | 1 | 02/06/2024 21:45 | 01/12/2024 5:48 |
| 24011320-042A | | NELAP | 1.0 | < 1.0 | µg/L | 1 | 02/09/2024 5:16 | 01/12/2024 5:49 |
| 24011320-043A | | NELAP | 1.0 | < 1.0 | µg/L | 1 | 02/14/2024 9:15 | 01/12/2024 5:49 |
| 24011320-044A | | NELAP | 1.0 | < 1.0 | µg/L | 1 | 02/02/2024 17:36 | 01/12/2024 5:51 |
| 24011320-045A | | NELAP | 1.0 | < 1.0 | µg/L | 1 | 02/02/2024 18:01 | 01/12/2024 5:51 |
| 24011320-046A | | NELAP | 1.0 | < 1.0 | µg/L | 1 | 02/02/2024 17:40 | 01/12/2024 5:52 |
| 24011320-047A | | NELAP | 1.0 | < 1.0 | µg/L | 1 | 02/02/2024 17:44 | 01/12/2024 5:52 |
| 24011320-048A | A AHL-12 | NELAP | 1.0 | < 1.0 | µg/L | 1 | 02/02/2024 17:48 | 01/12/2024 5:53 |



Laboratory Results

http://www.teklabinc.com/

Client: Geotechnology, Inc. Work Order: 24011320

Client Project: J044517.01 Report Date: 14-Feb-24

Matrix: DRINKING WATER

| Sample ID | Client Sample ID | Certification Qual | RL | Result | Units | DF | Date Analyzed | Date Collected |
|---------------|---------------------|---------------------|-----|--------|-------|----|------------------|-----------------|
| EPA 600 4.1.4 | 4, 200.8 R5.4, META | LS BY ICPMS (TOTAL) | | | | | | |
| Lead | | | | | | | | |
| 24011320-049 | A AHL-13 | NELAP | 1.0 | < 1.0 | μg/L | 1 | 02/02/2024 17:52 | 01/12/2024 5:53 |
| 24011320-050 | A AHL-14 | NELAP | 1.0 | 1.7 | µg/L | 1 | 02/02/2024 17:56 | 01/12/2024 5:54 |
| 24011320-051 | A AHL-15 | NELAP | 1.0 | 1.2 | µg/L | 1 | 02/02/2024 18:25 | 01/12/2024 5:54 |
| 24011320-052 | 2A AHL-16 | NELAP | 1.0 | 3.0 | µg/L | 5 | 02/08/2024 11:40 | 01/12/2024 5:55 |
| 24011320-053 | BA AHL-17 | NELAP | 1.0 | 1.6 | µg/L | 1 | 02/02/2024 18:29 | 01/12/2024 5:56 |
| 24011320-054 | A AHL-18 | NELAP | 1.0 | 3.0 | µg/L | 1 | 02/02/2024 18:34 | 01/12/2024 5:57 |
| 24011320-055 | SA AHL-19 | NELAP | 1.0 | < 1.0 | µg/L | 1 | 02/02/2024 18:38 | 01/12/2024 5:57 |
| 24011320-056 | SA AHL-20 | NELAP | 1.0 | < 1.0 | µg/L | 1 | 02/02/2024 18:54 | 01/12/2024 5:57 |
| 24011320-057 | 'A AHL-21 | NELAP | 1.0 | 2.1 | µg/L | 5 | 02/08/2024 12:11 | 01/12/2024 5:58 |
| 24011320-058 | BA AHL-22 | NELAP | 1.0 | < 1.0 | µg/L | 1 | 02/02/2024 18:42 | 01/12/2024 5:59 |
| 24011320-059 | A AHL-23 | NELAP | 1.0 | < 1.0 | µg/L | 1 | 02/02/2024 18:46 | 01/12/2024 5:59 |
| 24011320-060 | A AHL-24 | NELAP | 1.0 | < 1.0 | µg/L | 1 | 02/02/2024 18:50 | 01/12/2024 5:59 |



Receiving Check List

http://www.teklabinc.com/

Work Order: 24011320

Client: Geotechnology, Inc. Client Project: J044517.01 Report Date: 14-Feb-24 Carrier: Employee Received By: MEK Completed by: Reviewed by: Mary E. Kemp On: On: 19-Jan-24 19-Jan-24 Mary E Kemp Ellie Hopkins Extra pages included 0 Pages to follow: Chain of custody Shipping container/cooler in good condition? Yes **✓** No 🗔 Not Present Temp °C NA Type of thermal preservation? **V** Ice _ Blue Ice None Dry Ice Chain of custody present? **~** No L Yes Chain of custody signed when relinquished and received? **~** Yes No L **~** Chain of custody agrees with sample labels? No 🗀 Yes **~** No 🗌 Samples in proper container/bottle? Yes **V** No 🗌 Sample containers intact? Yes Sufficient sample volume for indicated test? Yes **~** No **~** No \square All samples received within holding time? Yes NA 🗸 Field Lab Reported field parameters measured: Yes 🗸 No 🗌 Container/Temp Blank temperature in compliance? When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected. Water - at least one vial per sample has zero headspace? Yes 🗌 No 🗀 No VOA vials 🗸 No TOX containers Water - TOX containers have zero headspace? Yes No 🗌 Yes 🗹 No 🗌 Water - pH acceptable upon receipt? NA 🗹 NPDES/CWA TCN interferences checked/treated in the field? Yes No 🗀

Samples were checked for turbidity and then preserved with nitric acid upon arrival in the laboratory. - MaryKemp - 1/19/2024 11:07:48 AM

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

pg. 3) of 74 Work order # <u>2401(320</u>

| | | Geotechnology, LL | <u> </u> | | | | | | | | | | | T _e | | anla | - | | - 1888 | ICE | | RI LIF | ICE | V | NO | CE | | Ň. | A | 0,- | | LTC | # | | A COOP |
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| Client: | | 11816 Lackland Ro | | | | | | *************************************** | ************ | *************************************** | ************ | ···· | | | | | | | | | | | | 74 | | | _ | | E US | | | | # | | |
| Address: | | | | | | | | | | | | | - | | | serv No | | | X | LAD | [(ex.] | ILLL | • | | | * | VII | | <u>, , , , , , , , , , , , , , , , , , , </u> | / 1 \ | <u> </u> | <u></u> | | | States |
| City / State | I ZIP Brad L | | -10 | | Dt | | | 314 |) 997 | 7-74 | 40 | | - | ▮┕ | aD | ИО | tes | • | | | | | | | | | | | | | | | | | 2500000 |
| Contact: | | n@teamues.com | | | Phone | 9; | - | , V 1 ¬ | , | | | | - | | | | | | | | | | | | , | 7 . | | | | | | مجمعيي | | | |
| E-Mail: | Diolitical | nigicaniacs.com | | | Fax: | | - | | | | | | - | CI | ier | ıt C | om | me | ents | 5 : | | | | | | | | | | | | | | | |
| | | to be involved in liti | | | | will | app | ly | | Yes | <u>کر</u> : | ₹N | 0 | | | | | | | | | | | | | | | | | | | | | | |
| Are these samples | s known | to be hazardous? corting limits to be m | ∐ Yes | | No estad analys | i? | lf v | 00 F | Noor | | nvide | | | | | | | | | | | | | | | | | | | | | | | | |
| limits in the comm | ent sec | tion. Yes | No | ie reque | sieu analys | 15 1. | II y | es, j | леаз | se hi | OVIGE | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| | | /Number | | Sa | mple Co | llec | to | r's l | Nan | ne | | | T | | N | IAT | RI) | <u> </u> | | | | | INE |)IC/ | TE | AN/ | ALY: | SIS | REC | QUE | STI | ΞD | | | |
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| | | | | | ructions | / LV | and | d Tv | pe c | of Co | ntai | ners | 4 | P | <u> </u> | | ٨ | Special Waste | Groundwater | | | İ | | | | | | | | | | | ĺ | | |
| Result: | 1-2 Day | (100% Surcharge) | Biiiin | g inst | ructions | ٦ | T | T | | | 1. | | | QUE ! | ੇ | So | ᇤ | cial | bun | Lead | | | | | | | | | | | | | | | |
| Other | 3 Da | ay (50% Surcharge) | | | | Ž | Ιž | Nac | H2S(| 핅 | MeOH | 7 L | | Aqueous | إ≷ | ≕ | e e | ₩a | wat | 1 E2 | | | | | | | | | | | | | | | |
| Lab Use Only | Sam | ple Identification | Dat | te/Time | Sampled | ĒS | ۵ ا | Ì | 4 | | Ĭ Ş | 2 2 | | ! | Drinking Water | | | šte | ë | E200.8 | | | | | | | | | | | | | | | |
| 24011320-00i | LM | 5-79 | 1/12 | 124 | 5:12 | | | | | | | | I |) | | | | | | X | | | | | | | | | | | | | | | |
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| 007 | | 75 | | | 5:16 | | | | | | | | | λ | $\langle $ | | | | | X | | | | | | | | | | | | | | L. | |
| 800 | | 96 | | | + | | | | | | | | I |) | X.I | | | | | 1 | | | | | | | | | | | | | L | | |
| 009 | | 97 | | | 5:16 | | | Π | | | | | I | | χÌ | | | | | X | | | | | | | | T | T | | | | | | |
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| Λ. | Relin | quished By | | | | li | Date | e/Ti | me | 1 | | . * | İ | | | | | | Re | ceive | d By | | | | | 工 | | | | Dat | e/Tir | ne | | | - |
| 13/40V | an | | , | | 1/18/2 | -4 | - | | | | | | | | | <i>j</i> | 2 | رر- | U | 0 | | | | | | | 1/ | 12 | >/2 | >_ | -/ | | | | |
| 1,7, | OU | AS W | 1 | , | 1/19/ | 2 | 9 |) | 10 | 2:6 | 7 | | T | | | n. | ~ *11 | 0 | _ | 18 | ~~ | | | | | | ilic | 7/2 |) u { | ť | 00 | \Diamond | | | |
| | | V | U | | | | | | | | | | T | | | 14y | | D | • | | 1 | | | | | | | | | | | | | | |
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pg. 32 of 74 Work order # 24011320

| Client: | | Geotechnology, L | _C | | | | | | ·········· | | | | T | Sar | nol | es · | on: | | ICE | | BLU | EICE | | NO | ICE | | • | | ٥С | | LTG | # | | Participal Control of the Control of |
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| Address: | | 11816 Lackland F | oad | | *************************************** | | | | | | | | | | _ | | | | | | FIEL | | | | | OR | LAI | B U | SE (| ONL | | | | A ORTHON |
| City / State | / Zip | St. Louis, MO 63 | 46 | | | | ******* | | | | | | - 8 | Lat | | | | | | | | | | | - | | | | | | | | | 3.0 |
| Contact: | Brad L | ohrum | | | Phone | 2: | (: | 314 | 997 | -744 | 0 | | | | | | _ | | | | | | | | | | | | | | | | | MVNO. |
| E-Mail: | blohrur | n@teamues.com | | | _ Fax: | _ | | | | | | | <u> </u> | Clie | nt (| `^n | | nt | ~• | | • | | | | | | - | | | | | | | |
| Are these samples | knoum | to be involved in lit | ication' | 2 If yes | a curchanna | will | 200 | lv. | П | Vec | × | No | _ | OHE: | 111 | <i>,</i> ()11 | 31319 | 31 IE: | ٥. | | | | | | | | | | | | | | | |
| Are these sample: | s known | to be hazardous? | ☐ Ye | es 🗷 | No | | | | | | • | • | | | | | | | | | | | | | | | | | | | | | | |
| Are there any requ | ired rep | oorting limits to be r tion. Yes | jet on i | the requ | ested analysi | is?. | If ye | es, p | leas | e pro | vide | | | | | | | | | | | | | | | | | | | | | | | |
| | | Number | C IVO | 9. | ample Col | lor | tor | 'e ! | Jan | | | | ┰ | | MA. | ΓĐΙ | <u> </u> | | r | | | INI | NC/ | TE | ΔΝ | VI V | 212 | DE |) IE | STE | <u>-n</u> | | | |
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| لهط | | | | (5) | 120 10 | <u>/</u> \ | VV | \vee | <u>\</u> | | | | | | | | Spe | er. | DW. | | | | | | | | | | | | | | | |
| Result: | s Requ 1-2 Day | Jested (100% Surcharge) | Billi | ng Insi | tructions | # | and | lly | pe o | r Col | ntain | ers | ģ | E. | S | Slu | cia | unc | Lead | | | | | | | | | | | | | | | |
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| Lab Use Only | Sam | ple Identification | Da | ate/Time | Sampled | ES | ω | - | 4 | ` : | E Q | 7 | | er | | | te | Œ, | 0.8 | | | | | | | | | | | | ĺ | | | |
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| Branley | An | <i>^</i> | , | | 1/18/ | ZJ. | | | | | | | | | K | 2_ | 1 | M | 0 | | | | | | | 11 | 12 | 3 | /2 | 4 | ı | | | |
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pg. 33 of 74 Work order # 24011320

| | | .AB, 1110. 5-4- | .0 110 | - COOLIGO EUL | | | - | | _ | | | , | | | | | | | • | | | | | | | | | | ********* | | | |
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| Client: | | Geotechnology, LL | .c | | | | | | | | | | Sa | mp | les | on: | 88 | ICE | | LUE | ICE | ፠ | NO I | | _ | | | οС | | LTG/ | # | |
| Address: | | 11816 Lackland Ro | | | | | | | | | | ₋▮ | Pre | ese | rve | d ir | : 🛭 | LAE | F | IELD | | | | <u>F</u> | OR | LAB | US | E C | <u>'NL'</u> | <u>Y</u> | | |
| City / State | / Zip | St. Louis, MO 631 | 46 | | | | | | | | | ₋▮ | La | b N | ote | s | | | | | | | | | | | | | | | | |
| Contact: | Brad Lo | ohrum | | Phone | :: | (| 314) | 997 | -74 | 40 | | _ | | | | | | | | | | | | | | | | | | | | |
| E-Mail: | blohrun | n@teamues.com | | Fax: | | | | | | | ******** | _ [| Clie | nf | Cai | nm | enf | s: | | | | | | | | | | • | | | | |
| | | to be involved in liti to be hazardous? | | | will | app | y | | Yes | X | No | | | | | | | | | | | | | | | | | | | | | |
| Are there any requ | ired rep | orting limits to be milion. Yes | et on the | requested analysi | s?. | If ye | es, p | lease | e pr | ovide | | | | | | | | | | | | | | | | | | | | | | |
| Project I | Vame/ | Number | | Sample Col | | | | | ie | | | L | | MA | TR | X | | | | | ND | ICA | TE/ | ANA | LYS | IS F | ₹EQ | UE | STE | D | | |
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| Results | s Reau | ested | | Instructions | | anc | Ту | oe of | Co | ntain | ers | 1∂ | | | 2 | Jec. | 2 | - | | | | | | | | | | | | l | | |
| Standard | | I . | | • | | _ | _ | I | | - Z | 0 | Aqueous | Drinking Water | Soil | obu | Special Waste | ᅙ | DW - Lead E200.8 | | | - | | | | | | | | | | | |
| Other | 3 Da | y (50% Surcharge) | | | 8 | Ö | la Q | 250 | 티 | MeOH | OTHER | Ĕ | Wat | | e | Vas | Vate | E20 | | | | | | | | | | | | | | |
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| V 030 | Relin | quished By | 1 | -7 | <u> </u> | Date | /Ti | ne | | | 1 | ╀ | IΛ | Т | <u></u> | ı | Re | ceiv | ed By | | | | | Т | | | - | Date | e/Tim | ne l | | |
| to and I land | 1~ | <u> </u> | | 1/18/ | | | , , , | | | | | | | | Z | _/ | 1 | 10 | | | | | | ╈ | // | 1/6 | | 2 | | | | |
| y your | <u>~~</u> | 1/2/ | the . | | | _ / | _ | | <u></u> | 00 | , | T | | 11/ | 1,-, | u | | DA | ing | | | | | + | | <u>-</u> 9 5 | | | 00 | | | |
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pg. 34 of 74 Work order # <u>24011320</u>

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

| Client: | | Geotechn | ology, LL0 | | | | | | | | | | | T | Sai | npl | 25 (| n: | 襚 | ICE | ■ B | LUE | CÉ | ∭ N | OICE | | | | °C | L | .TG# | | |
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| Address: | | 11816 La | ckland Ro | ad | | | | | | | | | | | | | | | | | F | | | | | | LA | B US | SE O | <u>NLY</u> | • | | |
| City / State | / Z ip | St. Louis, | MO 6314 | 16 | | | | | | | | | | | Lai | No | tes | ; | | | | | | | | | | | | | | | |
| Contact: | Brad L | ohrum | | | | Phone | <u>:</u> | (; | 314) | 997- | 744 | ю | | | | | | | | | | | | | | | | | | | | | 7 |
| E-Mail: | blohrur | n@teamue | s.com | | | Fax: | | | | | | | | . [| Clie | nt C | on | me | nts | s: | | | | | | | | | | | 8 + | - , | |
| Are these samples Are these samples Are there any requ limits in the comm | known | to be haza orting limit | irdous? s to be me | Yes | ⊠ No equeste | d analys | is?. | lf y∈ | s, p | lease | e pro | ovide | 1 |)) | | : | | | | | | | | | | | | | | | | | |
| Project | | | | _ | | ple Co | | | | | e | | | L | | MA | RI | X | | | | | INDI | CAT | E AI | IALY | SIS | REC | QUES | STEL |) | | - 1 - 2 |
| J041 | | | | By: | <u>2d</u> | Loh | V(| įV | ~ | • | | | | 1 | D. | | | Sр | ଦ୍ | DW | | | | | | | | | | | | | |
| Result: | s Requ | uested | homo\ | Billing I | nstru | ctions | # | and | Ту | pe of | Co | ntain | ers | ₽ | <u> </u> | S | S | ecia | oun | - Lead | | | | | | | | | | | | | |
| | | (100% Suice | | | | | UNPR | HNO3 | NaOF | H2SO | 된 | ntain MeOH | OTHE | ieous | Drinking Water | <u>e</u> | Sludge | l Was | Groundwater | ad E200. | | | | | | | | | | | | | |
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pg. 35 of 74 Work order # 240(1320)

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

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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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pg. 36 of 74 Work order # 24011320

| Address: 1818 Lackland Road City / State / Zip St. Lords, Mo 63146 Contact: Brad Lohrum Phone: (314) 987-7440 E-Mail: blohrum@teanues.com Fax: The these samples known to be involved in litigation? If yes, a surcharge will apply Ves X No re these samples known to be involved in litigation? If yes, a surcharge will apply Ves X No re these samples known to be involved in litigation? If yes, a surcharge will apply Ves X No re these samples known to be involved in litigation? If yes, a surcharge will apply Ves X No re these any required reporting limits to be met on the requested analysis? . If yes, please provide ritis in the comment section. Yes X No Project Name/Number JOHUS Suncharge Results Requested Billing Instructions Sample Collector's Name Address: Institutions Sample Collector's Name Address: Institutions Sample Collector's Name Address: Institutions Sample Collector's Name Address: Institution Sampl | Address: City / State / Zip Contact: E-Mail: Brad Lohrum blohrum@teamues.com Are these samples known to be involved in litigation? I Are these samples known to be hazardous? Yes Are there any required reporting limits to be met on the limits in the comment section. Yes No Project Name/Number JOYYSIT.0 Results Requested Standard 1-2 Day (100% Surcharge) Cother 3 Day (50% Surcharge) Lab Use Only Sample Identification Date ATT 15 | Fax: If yes, a surcharge will apply Yes No No requested analysis?. If yes, please provide Sample Collector's Name Sample Collector's Name Wand Type of Containers UNPRES HINOS | Preserved in: LAB FIELD Lab Notes Client Comments: MATRIX INDICAT Soi Aque | FOR LAB USE ONLY |
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| City / State / Zip St. Louis, MO 63148 Contact: Brad Lohrum Phone: (314) 997-7440 E-Mail: biohnum@leames.com Fax: Client Comments: Te these samples known to be involved in litigation? If yes, a surcharge will apply | City / State / Zip Contact: E-Mail: Brad Lohrum | Fax: If yes, a surcharge will apply Yes No No requested analysis?. If yes, please provide Sample Collector's Name Sample Collector's Name Wand Type of Containers UNPRES HINOS | Client Comments: MATRIX INDICAT Soi Aque | E ANALYSIS REQUESTED |
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APPENDIX D

LIMITATIONS OF REPORT

ENVIRONMENTAL SAMPLING LIMITATIONS OF REPORT

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