

WATER SAMPLING AND REPORTING SERVICES

COLUMBIA PUBLIC SCHOOLS
WEST BOULEVARD ELEMENTARY SCHOOL
319 WEST BOULEVARD NORTH
COLUMBIA, MISSOURI

Prepared for:

COLUMBIA PUBLIC SCHOOLS
COLUMBIA, MISSOURI

Prepared by:

GEOTECHNOLOGY, LLC, DBA UES St. Louis, Missouri

Date:

AUGUST 27, 2024

Project No.:

J044517.01







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

August 27, 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

West Boulevard Elementary School

319 West Boulevard North

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 West Boulevard Elementary School, located southwest of the intersection of Again Street and West Boulevard North 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 3 and 4, 2024, by Mr. Brad Lohrum, a Missouri-licensed lead risk assessor. Mr. Lohrum was assisted by Mr. Seth Lamble, a Missouri-licensed lead inspector. Copies of training certificates and lead licenses for Messrs. Lohrum and Lamble are included in Appendix A.



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

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

RESULTS

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

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

Sample Number / Location and Fixture Type	Results
WBE-03 / Media Center Sink	430 ppb
WBE-04 / Media Center Bubbler	308 ppb
WBE-06 / Room 109 Sink	25.5 ppb
WBE-08 / Room 108 Sink	6.5 ppb
WBE-37 / Room 45 Right Sink	14.1 ppb
WBE-64 / Room 22 Bubbler	13.1 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 – Ground 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

* * * * * *

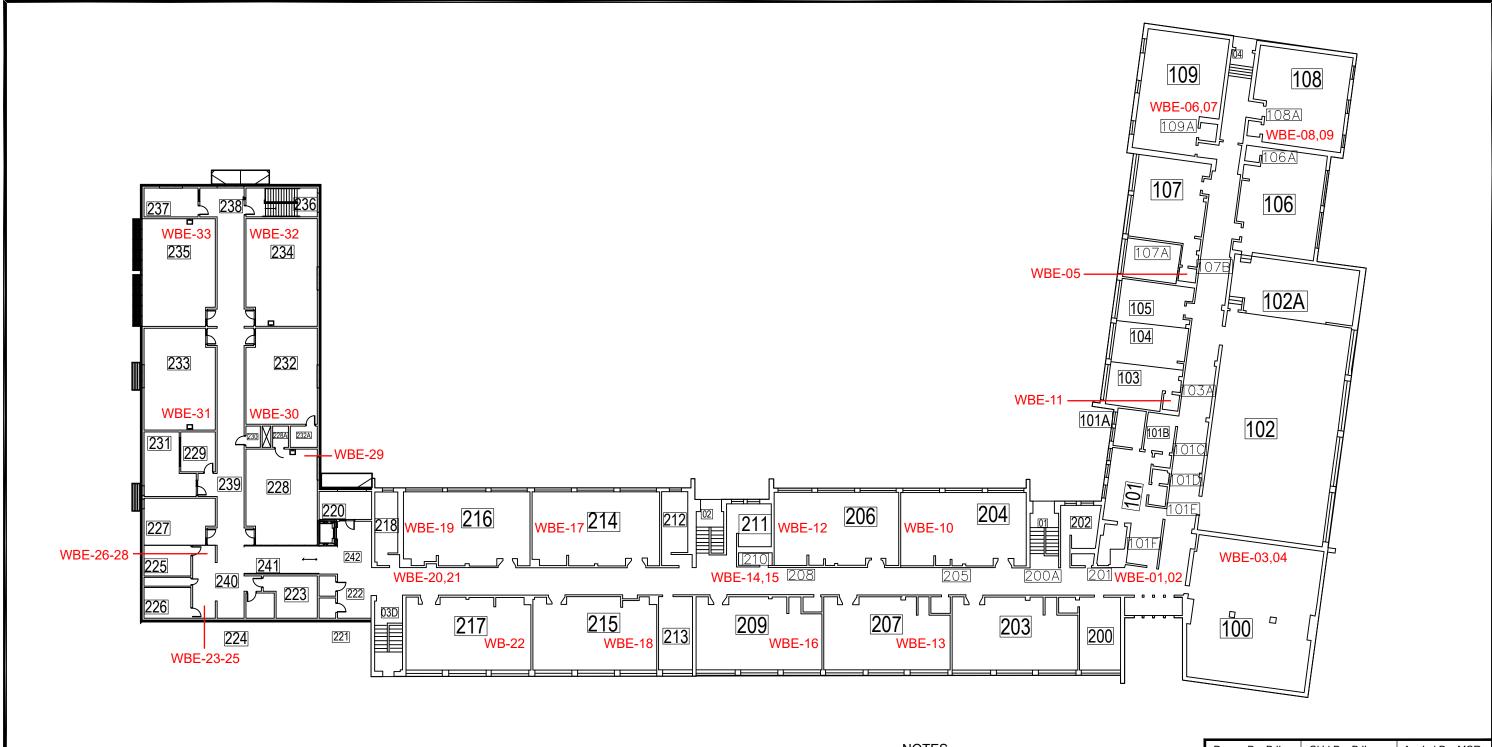
We appreciate the opportunity to provide our professional environmental consulting services to Columbia Public Schools on this project. If you have any questions or comments, please contact me at (314) 997-7440.

Very truly yours,

UES

Bradley J. Lohrum Project Manager

BJL/MSR:bjl/jsj



NOTES

- 1. Drawing not to scale.
- 2. Drawing adapted from "West Boulevard Elementary First Floor Plan", provided by the client, dated 08/12/2015.
- 3. Sample locations were identified in the field relative to building features and are approximate only.

Drawn By: BJL	Ck'd By: BJL	App'vd By: MSR
Date: 8-27-24	Date: 8-27-24	Date: 8-27-24



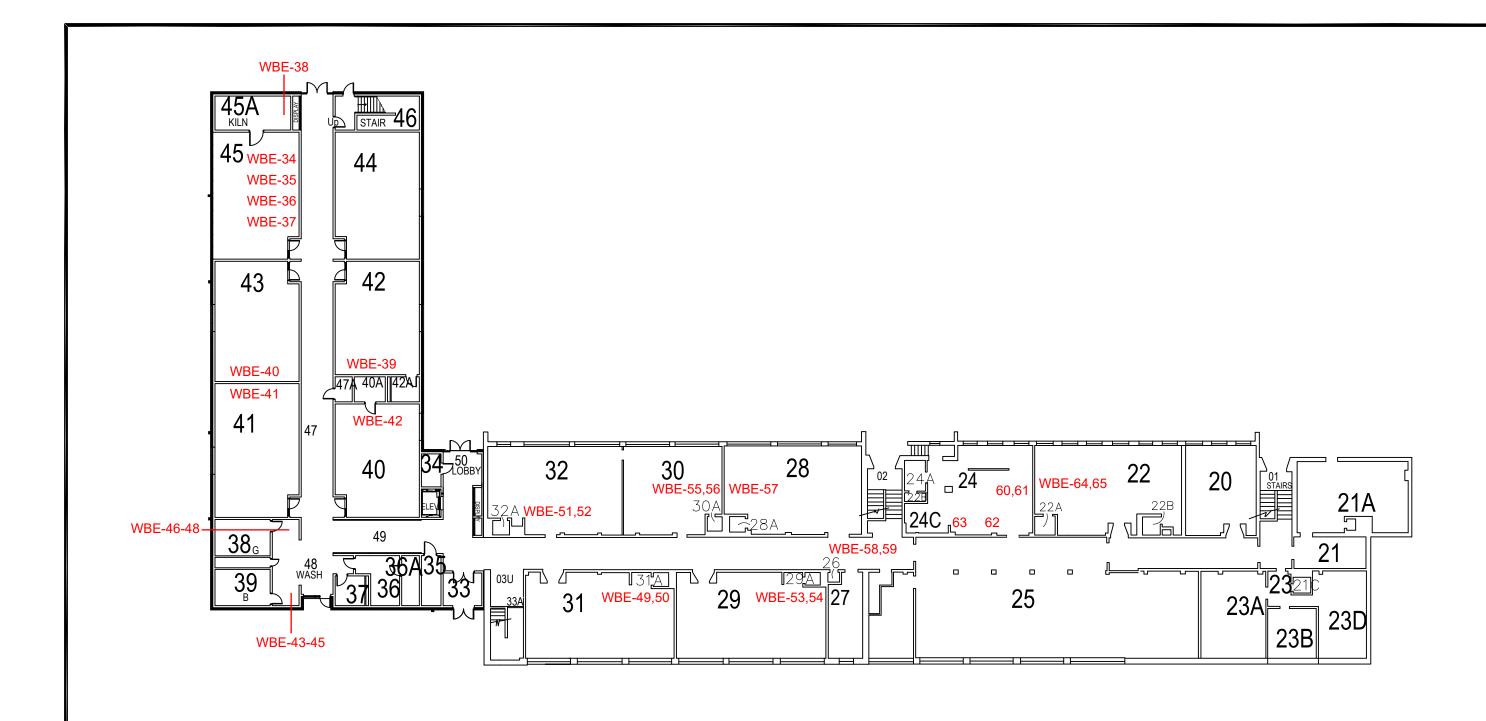
319 West Boulevard North Columbia, Missouri

DRINKING WATER SAMPLING LOCATIONS - FIRST FLOOR

Project Number J044517.01

FIGURE 1





NOTES

- 1. Drawing not to scale.
- 2. Drawing adapted from "West Boulevard Elementary Ground Floor Plan", provided by the client, dated 06/25/2021.
- 3. Sample locations were identified in the field relative to building features and are approximate only.

Drawn By: BJL	Ck'd By: BJL	App'vd By: MSR					
Date: 8-27-24	Date: 8-27-24	Date: 8-27-24					



319 West Boulevard North Columbia, Missouri

DRINKING WATER SAMPLING LOCATIONS - GROUND 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

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



DRINKING WATER SAMPLING FORM

Project Name: Columbia Public Schools Water

Sampling and Reporting Services

Building Name: West Boulevard Elementary

Project Number: J044517.01

Address: 319 West Boulevard North

Columbia, Missouri

Sample ID	Fixture Type	Location	Flushed By - Date - Time	Sampled By - Date - Time
WBE-01	WF	Hallway at Room 201 - Left	SPL - 1/3/24 - 19:05	SPL - 1/4/24 - 5:23
WBE-02	WF	Hallway at Room 201 - Right	SPL - 1/3/24 - 19:05	SPL - 1/4/24 - 5:23
WBE-03	S	Media Center	SPL - 1/3/24 - 19:11	SPL - 1/4/24 - 5:25
WBE-04	В	Media Center	SPL - 1/3/24 - 19:11	SPL - 1/4/24 - 5:25
WBE-05	S	Room 107 - Restroom	SPL - 1/3/24 - 19:22	SPL - 1/4/24 - 5:33
WBE-06	S	Room 109	SPL - 1/3/24 - 19:23	SPL - 1/4/24 - 5:34
WBE-07	В	Room 109	SPL - 1/3/24 - 19:23	SPL - 1/4/24 - 5:34
WBE-08	S	Room 108	SPL - 1/3/24 - 19:25	SPL - 1/4/24 - 5:35
WBE-09	В	Room 108	SPL - 1/3/24 - 19:25	SPL - 1/4/24 - 5:35
WBE-10	S	Room 204	SPL - 1/3/24 - 19:27	BJL - 1/4/24 - 5:38
WBE-11	S	Room 103 - Restroom	SPL - 1/3/24 - 19:29	SPL - 1/4/24 - 5:38
WBE-12	S	Room 206	SPL - 1/3/24 - 19:32	SPL - 1/4/24 - 5:40
WBE-13	S	Room 207	SPL - 1/3/24 - 19:33	SPL - 1/4/24 - 5:41
WBE-14	WF	Hallway at Room 210 - Left	SPL - 1/3/24 - 19:34	SPL - 1/4/24 - 5:41
WBE-15	WF	Hallway at Room 210 - Right	SPL - 1/3/24 - 19:34	SPL - 1/4/24 - 5:41
WBE-16	S	Room 209	SPL - 1/3/24 - 19:36	SPL - 1/4/24 - 5:43
WBE-17	S	Room 214	SPL - 1/3/24 - 19:37	SPL - 1/4/24 - 5:44
WBE-18	S	Room 215	SPL - 1/3/24 - 19:38	SPL - 1/4/24 - 5:44
WBE-19	S	Room 216	SPL - 1/3/24 - 19:39	SPL - 1/4/24 - 5:46
WBE-20	WF	Hallway at Room 216 - Left	SPL - 1/3/24 - 19:40	SPL - 1/4/24 - 5:46
WBE-21	WF	Hallway at Room 216 - Right	SPL - 1/3/24 - 19:40	SPL - 1/4/24 - 5:46
WBE-22	S	Room 217	SPL - 1/3/24 - 19:41	SPL - 1/4/24 - 5:48
WBE-23	WF	Room 240 East - Left	SPL - 1/3/24 - 19:44	SPL - 1/4/24 - 5:49
WBE-24	BF	Room 240 East - Right	SPL - 1/3/24 - 19:44	SPL - 1/4/24 - 5:49
WBE-25	WF	Room 240 East - Right	SPL - 1/3/24 - 19:44	SPL - 1/4/24 - 5:49



DRINKING WATER SAMPLING FORM

Project Name: Columbia Public Schools Water

Sampling and Reporting Services

Building Name: West Boulevard Elementary

Project Number: J044517.01

Address: 319 West Boulevard North

Columbia, Missouri

Sample ID	Fixture Type	Location	Flushed By - Date - Time	Sampled By - Date - Time
WBE-26	WF	Room 240 West - Left	SPL - 1/3/24 - 19:46	SPL - 1/4/24 - 5:51
WBE-27	BF	Room 240 West - Right	SPL - 1/3/24 - 19:46	SPL - 1/4/24 - 5:51
WBE-28	WF	Room 240 West - Right	SPL - 1/3/24 - 19:46	SPL - 1/4/24 - 5:51
WBE-29	S	Room 228	SPL - 1/3/24 - 19:48	SPL - 1/4/24 - 5:53
WBE-30	S	Room 232	SPL - 1/3/24 - 19:50	SPL - 1/4/24 - 5:54
WBE-31	S	Room 233	SPL - 1/3/24 - 19:51	SPL - 1/4/24 - 5:56
WBE-32	S	Room 234	SPL - 1/3/24 - 19:52	SPL - 1/4/24 - 5:57
WBE-33	S	Room 235	SPL - 1/3/24 - 19:53	SPL - 1/4/24 - 5:58
WBE-34	S	Room 45 - Left	SPL - 1/3/24 - 19:56	SPL - 1/4/24 - 6:00
WBE-35	S	Room 45 - Left Center	SPL - 1/3/24 - 19:56	SPL - 1/4/24 - 6:00
WBE-36	S	Room 45 - Right Center	SPL - 1/3/24 - 19:56	SPL - 1/4/24 - 6:00
WBE-37	S	Room 45 - Right	SPL - 1/3/24 - 19:56	SPL - 1/4/24 - 6:00
WBE-38	S	Room 45A	SPL - 1/3/24 - 19:56	SPL - 1/4/24 - 6:01
WBE-39	S	Room 42	SPL - 1/3/24 - 19:59	SPL - 1/4/24 - 6:04
WBE-40	S	Room 43	SPL - 1/3/24 - 20:00	SPL - 1/4/24 - 6:05
WBE-41	S	Room 41	SPL - 1/3/24 - 20:02	SPL - 1/4/24 - 6:07
WBE-42	S	Room 40	SPL - 1/3/24 - 20:03	SPL - 1/4/24 - 6:07
WBE-43	WF	Room 48 East - Left	SPL - 1/3/24 - 20:05	SPL - 1/4/24 - 6:08
WBE-44	BF	Room 48 East - Right	SPL - 1/3/24 -20:05	SPL - 1/4/24 - 6:08
WBE-45	WF	Room 48 East - Right	SPL - 1/3/24 - 20:05	SPL - 1/4/24 - 6:08
WBE-46	WF	Room 48 West - Left	BJL - 1/3/24 - 20:05	SPL - 1/4/24 - 6:09
WBE-47	BF	Room 48 West - Right	BJL - 1/3/14 - 20:05	SPL - 1/4/24 - 6:09
WBE-48	WF	Room 48 West - Right	BJL - 1/3/24 - 20:05	SPL - 1/4/24 - 6:09
WBE-49	S	Room 31	SPL - 1/3/24 - 20:09	SPL - 1/4/24 - 6:11
WBE-50	В	Room 31	SPL - 1/3/24 - 20:09	SPL - 1/4/24 - 6:11

BF=Bottle Filling
B=Bubbler

FW=Filtered Water ICE=Ice Machine

S=Classroom/Other Sink WF=Water Fountain



DRINKING WATER SAMPLING FORM

Project Name: Columbia Public Schools Water

Sampling and Reporting Services

Building Name: West Boulevard Elementary

Project Number: J044517.01

Address: 319 West Boulevard North

Columbia, Missouri

Sample ID	Fixture Type	Location	Flushed By - Date - Time	Sampled By - Date - Time
WBE-51	S	Room 32	SPL - 1/3/24 - 20:11	SPL - 1/4/24 - 6:13
WBE-52	В	Room 32	SPL - 1/3/24 - 20:11	SPL - 1/4/24 - 6:13
WBE-53	S	Room 29	SPL - 1/3/24 - 20:12	SPL - 1/4/24 - 6:14
WBE-54	В	Room 29	SPL - 1/3/24 - 20:12	SPL - 1/4/24 - 6:14
WBE-55	S	Room 30	SPL - 1/3/24 - 20:13	SPL - 1/4/24 - 6:17
WBE-56	В	Room 30	SPL - 1/3/24 - 20:13	SPL - 1/4/24 - 6:17
WBE-57	S	Room 28	SPL - 1/3/24 - 20:15	SPL - 1/4/24 - 6:19
WBE-58	WF	Hallway at Room 28 - Left	SPL - 1/3/24 - 20:17	SPL - 1/4/24 - 6:20
WBE-59	WF	Hallway at Room 28 - Right	SPL - 1/3/24 - 20:17	SPL - 1/4/24 - 6:20
WBE-60	S	Kitchen Dish Wash - Left	SPL - 1/3/24 - 20:20	SPL - 1/4/24 - 6:21
WBE-61	S	Kitchen Dish Wash - Right	SPL - 1/3/24 - 20:20	SPL - 1/4/24 - 6:21
WBE-62	S	Kitchen Food Prep	SPL - 1/3/24 - 20:20	BJL - 1/4/24 - 6:22
WBE-63	S	Kitchen Steam Table	SPL - 1/3/24 - 20:20	BJL - 1/4/24 - 6:22
WBE-64	В	Room 22	SPL - 1/3/24 - 20:22	SPL - 1/4/24 - 6:24
WBE-65	S	Room 22	SPL - 1/3/24 - 20:22	SPL - 1/4/24 - 6:24



APPENDIX C

DRINKING WATER LABORATORY DATA SHEETS



January 30, 2024

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

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

RE: J044517.01 **WorkOrder:** 24010445

Dear Brad Lohrum:

TEKLAB, INC received 60 samples on 1/5/2024 1:15:00 PM for the analysis presented in the following report.

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

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

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

Sincerely,

Patrick Riley

Project Manager (618)344-1004 ex 44

patrickriley@teklabinc.com

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



Report Contents

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Work Order: 24010445
Client Project: J044517.01

Report Date: 30-Jan-24

This reporting package includes the following:

Cover Letter	1
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Receiving Check List	9
Chain of Custody	Appended



Definitions

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Work Order: 24010445

Client Project: J044517.01 Report Date: 30-Jan-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: 24010445

Client Project: J044517.01 Report Date: 30-Jan-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: 24010445

Report Date: 30-Jan-24

Client: Geotechnology, Inc.

Client Project: J044517.01

Cooler Receipt Temp: N/A °C

Locations

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



Accreditations

http://www.teklabinc.com/

Client: Geotechnology, Inc. Work Order: 24010445

Client Project: J044517.01 Report Date: 30-Jan-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		1/31/2024	Collinsville
Missouri	MDNR	00930		5/31/2023	Collinsville
Missouri	MDNR	930		1/31/2025	Collinsville



Laboratory Results

http://www.teklabinc.com/

Client: Geotechnology, Inc. Work Order: 24010445

Client Project: J044517.01 Report Date: 30-Jan-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	ALS BY ICPMS (TOTAL)						
Lead								
24010445-001	A MHE-16	NELAP	1.0	< 1.0	µg/L	1	01/15/2024 21:09	01/04/2024 4:53
24010445-002	A MHE-17	NELAP	1.0	< 1.0	µg/L	5	01/26/2024 7:54	01/04/2024 4:53
24010445-003	BA MHE-18	NELAP	1.0	2.9	µg/L	1	01/15/2024 21:13	01/04/2024 4:53
24010445-004		NELAP	1.0	3.3	µg/L	1	01/15/2024 21:27	01/04/2024 4:53
24010445-005		NELAP	1.2	2.7	µg/L	5	01/18/2024 6:43	01/04/2024 4:53
24010445-006		NELAP	1.0	< 1.0	µg/L	1	01/15/2024 21:42	01/04/2024 4:53
24010445-007		NELAP	1.0	3.9	µg/L	1	01/15/2024 21:46	01/04/2024 5:12
24010445-008		NELAP	1.0	< 1.0	µg/L	1	01/15/2024 21:49	01/04/2024 5:12
24010445-009		NELAP	1.0	1.5	µg/L	1	01/15/2024 21:53	01/04/2024 5:12
24010445-010		NELAP	1.0	2.9	µg/L	1	01/15/2024 21:57	01/04/2024 5:12
24010445-011		NELAP	1.0	< 1.0	µg/L	1	01/15/2024 22:00	01/04/2024 5:12
24010445-012		NELAP	1.0	< 1.0	μg/L	1	01/15/2024 22:15	01/04/2024 5:23
24010445-013		NELAP	1.0	< 1.0	μg/L	1	01/15/2024 22:19	01/04/2024 5:23
24010445-014		NELAP	1.0	430	μg/L	5	01/26/2024 7:57	01/04/2024 5:25
24010445-015		NELAP	1.0	308	μg/L	5	01/26/2024 8:01	01/04/2024 5:25
24010445-016		NELAP	1.0	< 1.0	μg/L	1	01/15/2024 22:30	01/04/2024 5:33
24010445-017		NELAP	1.0	25.5	μg/L	5	01/26/2024 8:05	01/04/2024 5:34
24010445-018		NELAP	1.0	< 1.0	μg/L	1	01/15/2024 22:33	01/04/2024 5:34
24010445-019		NELAP	1.0	6.5	μg/L	5	01/26/2024 8:08	01/04/2024 5:35
24010445-020		NELAP	1.0	3.4	μg/L	1	01/15/2024 22:37	01/04/2024 5:35
24010445-021		NELAP	1.0	1.1	μg/L	5	01/26/2024 8:12	01/04/2024 5:38
24010445-022		NELAP	1.0	1.9	μg/L	1	01/26/2024 12:24	01/04/2024 5:38
24010445-023		NELAP	1.0	< 1.0	μg/L	1	01/26/2024 12:28	01/04/2024 5:40
24010445-024		NELAP	1.0	3.2	μg/L	1	01/26/2024 12:32	01/04/2024 5:41
24010445-025		NELAP	1.0	< 1.0	μg/L	1	01/26/2024 12:37	01/04/2024 5:41
24010445-026		NELAP	1.0	< 1.0	μg/L	1	01/26/2024 12:41	01/04/2024 5:41
24010445-027		NELAP	1.0	4.0	μg/L	1	01/26/2024 12:45	01/04/2024 5:43
24010445-028		NELAP	1.0	2.8	μg/L	1	01/26/2024 12:50	01/04/2024 5:44
24010445-029		NELAP	1.0	3.7	μg/L	1	01/29/2024 9:48	01/04/2024 5:44
24010445-030		NELAP	1.0	2.3	μg/L	1	01/29/2024 9:52	01/04/2024 5:46
24010445-031		NELAP	1.0	1.1	μg/L	1	01/26/2024 13:24	01/04/2024 5:46
24010445-032		NELAP	1.0	1.6	μg/L	1	01/26/2024 13:28	01/04/2024 5:46
24010445-033		NELAP	1.0	4.1	μg/L	1	01/26/2024 13:33	01/04/2024 5:48
24010445-034		NELAP	1.0	< 1.0	μg/L	1	01/26/2024 13:37	01/04/2024 5:49
24010445-035		NELAP	1.0	< 1.0	μg/L	1	01/26/2024 13:50	01/04/2024 5:49
24010445-036		NELAP	1.0	< 1.0	μg/L	1	01/26/2024 13:41	01/04/2024 5:49
24010445-037		NELAP	1.0	< 1.0	μg/L	1	01/26/2024 13:46	01/04/2024 5:51
24010445-038		NELAP	1.0	< 1.0	μg/L	1	01/26/2024 14:16	01/04/2024 5:51
24010445-039		NELAP	1.0	< 1.0	μg/L	1	01/29/2024 10:03	01/04/2024 5:51
24010445-040		NELAP	1.0	1.1	μg/L	1	01/26/2024 14:24	01/04/2024 5:53
24010445-041		NELAP	1.0	< 1.0	μg/L	1	01/26/2024 14:29	01/04/2024 5:54
24010445-042		NELAP	1.0	< 1.0	μg/L	1	01/26/2024 14:33	01/04/2024 5:56
24010445-043		NELAP	1.0	< 1.0	μg/L	1	01/26/2024 14:46	01/04/2024 5:57
24010445-044		NELAP	1.0	< 1.0	μg/L	1	01/26/2024 14:37	01/04/2024 5:58
24010445-045		NELAP	1.0	1.2	μg/L	5	01/29/2024 11:26	01/04/2024 6:00
24010445-046		NELAP	1.0	1.3	μg/L	5	01/26/2024 8:38	01/04/2024 6:00
24010445-047		NELAP	1.0	1.2	μg/L	5	01/26/2024 8:41	01/04/2024 6:00
24010445-048	SA WBE-37	NELAP	1.0	14.1	μg/L	5	01/26/2024 8:45	01/04/2024 6:00



Laboratory Results

http://www.teklabinc.com/

Client: Geotechnology, Inc. Work Order: 24010445

Client Project: J044517.01 Report Date: 30-Jan-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								
24010445-049	A WBE-38	NELAP	1.0	2.3	μg/L	5	01/26/2024 8:49	01/04/2024 6:01
24010445-050	A WBE-39	NELAP	1.0	< 1.0	μg/L	1	01/26/2024 14:42	01/04/2024 6:04
24010445-051	A WBE-40	NELAP	1.0	< 1.0	μg/L	1	01/26/2024 15:12	01/04/2024 6:05
24010445-052	A WBE-41	NELAP	1.0	< 1.0	μg/L	1	01/26/2024 15:16	01/04/2024 6:07
24010445-053	A WBE-42	NELAP	1.0	< 1.0	μg/L	1	01/26/2024 15:21	01/04/2024 6:07
24010445-054	A WBE-43	NELAP	1.0	< 1.0	μg/L	1	01/26/2024 15:42	01/04/2024 6:08
24010445-055	A WBE-44	NELAP	1.0	< 1.0	μg/L	1	01/26/2024 15:25	01/04/2024 6:08
24010445-056	A WBE-45	NELAP	1.0	< 1.0	μg/L	1	01/26/2024 15:29	01/04/2024 6:08
24010445-057	A WBE-46	NELAP	1.0	< 1.0	μg/L	1	01/26/2024 15:33	01/04/2024 6:09
24010445-058	A WBE-47	NELAP	1.0	< 1.0	μg/L	1	01/26/2024 15:38	01/04/2024 6:09
24010445-059	A WBE-48	NELAP	1.0	< 1.0	μg/L	1	01/26/2024 16:08	01/04/2024 6:09
24010445-060	A WBE-49	NELAP	1.0	< 1.0	μg/L	1	01/29/2024 10:06	01/04/2024 6:11



Receiving Check List

http://www.teklabinc.com/

Work Order: 24010445 Client: Geotechnology, Inc. Client Project: J044517.01 Report Date: 30-Jan-24 Carrier: Employee Received By: NGR Completed by: Ontoer Oblacce Reviewed by: On: On: 05-Jan-24 05-Jan-24 Amber Dilallo Ellie Hopkins Extra pages included 0 Pages to follow: Chain of custody Shipping container/cooler in good condition? Yes **✓** No 🗔 Not Present Temp °C N/A Type of thermal preservation? **~** Ice _ Blue Ice None Dry Ice Chain of custody present? **~** No L Yes Chain of custody signed when relinquished and received? **~** Yes No L **~** Chain of custody agrees with sample labels? No 🗀 Yes **~** No 🗌 Samples in proper container/bottle? Yes **V** No 🗌 Sample containers intact? Yes Yes **~** No Sufficient sample volume for indicated test? **~** No \square All samples received within holding time? Yes NA 🗸 Field Lab \square Reported field parameters measured: Yes 🗸 No 🗌 Container/Temp Blank temperature in compliance? When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected. Water - at least one vial per sample has zero headspace? Yes 🗌 No 🗀 No VOA vials 🗸 No TOX containers Water - TOX containers have zero headspace? Yes No 🗌 Yes 🗹 No 🗌 Water - pH acceptable upon receipt? NA 🗸 NPDES/CWA TCN interferences checked/treated in the field? Yes No 🗀

Samples were checked for turbidity and then preserved with nitric acid upon arrival in the laboratory. - amberdilallo - 1/5/2024 3:07:07 PM

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

CHAIN OF CUSTODY

pg. 2 of 25 Work order # $\frac{2}{5}$

2400445 or#24010496

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

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Client:	Geotechnology, I																B 6		ue :	® N∪				_	-		#		
Address:	11816 Lackland										Pre	serv	ed	in:		LAB	F	IELD			<u> </u>	ORI	LAB I	USE	ONL	<u>-Y</u>			
City / State	/ Zip St. Louis, MO 63	3146								. 1	Lat	No	tes																
Contact:	Brad Lohrum		_ Phone	: :	(3	(4) 99	7-744	Ю																					
E-Mail:	blohrum@teamues.com		_ Fax:							С	lie	nt C	omi	me	nts	1													
Are these samples	s known to be involved in I	itigation? If yes,	a surcharge	will a	ylqqı		Yes	Z	(No	1																			
Are these samples	s known to be hazardous?	☐ Yes 🖟	No																										
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. Yes					İ																								
		/	amenia Cal	10.04		No				┰┸┈	MATRIX INDICATE ANALYSIS REQUESTED																		
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<i>y</i> ~	3 Day (50% Surcharge)			١ş	Ξ	ᇗ	_ ;	<u> </u>	9	le OI	ğ۷	Soil	Sludge	٤	ξ	ad E		1											
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The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions.

BottleOrder:

80481



24010445
Work order # 24010447

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

		Geotechnology, LL										Ť	Sar	npl	es c	on:	20	ICE	-	BLU	E ICE		NO I	CE				οС		LTG	#		
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Address:		St. Louis, MO 631										· 🛮		No			. —							_									
Contact:	Brad Loh	nrum		Phone		(314)	997	744	10																							
	biohrum(@teamues.com		Fax:		****						Ŀ	NI: -																				
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BottleOrder:

80481



	TEKLAB, II	NC. 544!	5 Horse	shoe Lal	ce l	Roa	CH d -	IAI Col	N lin	OF svil	- (lle,	CU IL	ST 622	O 234	י ס - F	Y Pho	pg. 4 of 25 Work order # 2401044 thone: (618) 344-1004 - Fax: (618) 344-1005 lice Blue ice No ice °C LTG# LAB FIELD FOR LAB USE ONLY
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Address:	11816 L	ackland Roa	ad									Pre	ser	ved	in:	***	LAB FIELD FOR LAB USE ONLY
City / State		s, MO 6314									-		o No				
Contact:	Brad Lohrum		<u> </u>	_ Phone	: :	(31-	4) 99	7-744	10		- L						
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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.



CHAIN OF CUSTODY

24010445 pg. 5 of 25 Work order # 2410104449

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

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	/ ZIP Brad Lo	St. Louis, MO 63	740					3141	997	-744	n		-	La	ÞΝ	ote	S																
Contact:		n@teamues.com	*		Phon	e:		214)		-, -, -,			-																				
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Are there any requi	urea rep ent sect	orting limits to be r ion. ∏ Yes 🏳	net or	n the requ	rested analy	SIS?	. If ye	s, p	ieas	e pro	vide		ı																				
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Result:	Results Requested Billing Instructions # and Type of Contain													Š	<u>ا</u>	Sludge	Special Waste	Groundwater	Lead														
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	Project Name/Number Sample Collector's Name Sesults Requested analysis? If yes, please provide in the comment section. Yes Results Requested analysis? If yes, please provide in the comment section. Yes Brad Lahrv Results Requested analysis? If yes, please provide in the comment section. Yes Brad Lahrv Results Requested analysis? If yes, please provide in the comment section. Yes Brad Lahrv Billing Instructions # and Type of Containe The project Name Billing Instructions # And Type of Containe Sample Collector's Name Billing Instructions # And Type of Containe The project Name Sample Collector's Name Billing Instructions # And Type of Containe The project Name Sample Collector's Name Billing Instructions # And Type of Containe The project Name Sample Collector's Name Sample Collector's Name Date Type of Containe Sample Collector's Name The project Name Sample Collector's Name Sample Sample Sample of Containe Sample Sampl													late			aste	ter	E200.														
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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.

CHAIN OF CUSTODY

pg. 6 of 25 Work order # <u>2401044</u>5

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

Client:	Geotechnology, L	LC									!	San	nple	es c	on:	3	ICE		BLUE	CE	∭ NC	ICE			_ 0	С	LTG	¥	
Address:	11816 Lackland F	load									ı	Pre	ser	vec	l in		LAB		FIELD			<u>F</u>	OR L	AB	<u>USE</u>	ONL	<u>.Y</u>		
City / State	Zip St. Louis, MO 63	146										Lab	No	tes	5														
	Brad Lohrum		Phone):	(3	14)	997-	744(0																				
1	blohrum@teamues.com		_ Fax:		_							lie	nt C	on	ıme	nts	s:		*****										
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Are there any requ	ired reporting limits to be r	net on the reque	ested analysi	is?.	If yes	s, pl	lease	pro	vide		1																		
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<i>y</i> ~	3 Day (50% Surcharge)			Z	崱	Z	H2:	. j	질	옄	eou	2	Soil	Sludge	Special Waste	Groundwater	id E												
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Lab Use Only	Sample Identification	Date/Time	Sampled				e of H2SO4	-	+	<u> </u>	_				_		ω .7	\dashv	-	+	+		+	-			\vdash	\dashv	
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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.

100226

E-10374

05002

05003

9978

Illinois

Kansas

Louisiana

Louisiana

Oklahoma



January 30, 2024

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

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

RE: J044517.01 **WorkOrder:** 24010446

Dear Brad Lohrum:

TEKLAB, INC received 60 samples on 1/5/2024 1:15:00 PM for the analysis presented in the following report.

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

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

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

Sincerely,

Patrick Riley Project Manager

(618)344-1004 ex 44

patrickriley@teklabinc.com



Report Contents

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Work Order: 24010446

Client Project: J044517.01

Report Date: 30-Jan-24

This reporting package includes the following:

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



Definitions

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Work Order: 24010446

Client Project: J044517.01 Report Date: 30-Jan-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: 24010446

Client Project: J044517.01 Report Date: 30-Jan-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: 24010446

Report Date: 30-Jan-24

Client: Geotechnology, Inc.

Cooler Receipt Temp: N/A °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: 24010446

Client Project: J044517.01 Report Date: 30-Jan-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		1/31/2024	Collinsville
Missouri	MDNR	00930		5/31/2023	Collinsville
Missouri	MDNR	930		1/31/2025	Collinsville



Laboratory Results

http://www.teklabinc.com/

Client: Geotechnology, Inc. Work Order: 24010446

Client Project: J044517.01 Report Date: 30-Jan-24

Matrix: DRINKING WATER

	Client Sample ID	Certification Qual	RL	Result	Units	DF	Date Analyzed	Date Collected
-	-	LS BY ICPMS (TOTAL)					v	
Lead								
24010446-001A	WBE-50	NELAP	1.0	< 1.0	μg/L	1	01/20/2024 6:32	01/04/2024 6:11
24010446-002A	WBE-51	NELAP	1.0	< 1.0	μg/L	1	01/20/2024 5:34	01/04/2024 6:13
24010446-003A	WBE-52	NELAP	1.0	1.7	μg/L	1	01/20/2024 6:03	01/04/2024 6:13
24010446-004A	WBE-53	NELAP	1.0	< 1.0	μg/L	1	01/20/2024 6:07	01/04/2024 6:14
24010446-005A	WBE-54	NELAP	1.0	1.3	μg/L	1	01/20/2024 7:30	01/04/2024 6:14
24010446-006A	WBE-55	NELAP	1.0	3.0	μg/L	5	01/19/2024 13:23	01/04/2024 6:17
24010446-007A	WBE-56	NELAP	1.0	1.4	μg/L	1	01/20/2024 7:59	01/04/2024 6:17
24010446-008A	WBE-57	NELAP	1.0	< 1.0	μg/L	1	01/20/2024 8:03	01/04/2024 6:19
24010446-009A	WBE-58	NELAP	1.0	< 1.0	μg/L	5	01/19/2024 13:38	01/04/2024 6:20
24010446-010A	WBE-59	NELAP	1.0	< 1.0	μg/L	1	01/20/2024 8:07	01/04/2024 6:20
24010446-011A	WBE-60	NELAP	1.0	< 1.0	μg/L	1	01/20/2024 8:28	01/04/2024 6:21
24010446-012A	WBE-61	NELAP	1.0	< 1.0	μg/L	1	01/20/2024 8:12	01/04/2024 6:21
24010446-013A	WBE-62	NELAP	1.0	< 1.0	μg/L	5	01/19/2024 13:41	01/04/2024 6:22
24010446-014A	WBE-63	NELAP	1.0	< 1.0	μg/L	1	01/20/2024 8:16	01/04/2024 6:22
24010446-015A	WBE-64	NELAP	1.0	13.1	μg/L	5	01/19/2024 13:45	01/04/2024 6:24
24010446-016A	WBE-65	NELAP	1.0	1.7	μg/L	5	01/24/2024 21:32	01/04/2024 6:24
24010446-017A	BSES-24	NELAP	1.0	2.1	µg/L	1	01/20/2024 8:20	01/04/2024 6:40
24010446-018A	BSES-25	NELAP	1.0	2.9	µg/L	1	01/20/2024 8:24	01/04/2024 6:40
24010446-019A	BSES-26	NELAP	1.0	< 1.0	µg/L	1	01/20/2024 9:22	01/04/2024 6:40
24010446-020A	RES-28	NELAP	1.0	1.6	µg/L	1	01/20/2024 8:53	01/04/2024 6:51
24010446-021A	RES-29	NELAP	1.0	2.1	µg/L	1	01/20/2024 8:57	01/04/2024 6:51
24010446-022A	RES-30	NELAP	1.0	2.1	µg/L	1	01/20/2024 9:01	01/04/2024 6:51
24010446-023A	ECDC-01	NELAP	1.0	< 1.0	µg/L	1	01/20/2024 9:05	01/04/2024 7:12
24010446-024A	ECDC-02	NELAP	1.0	< 1.0	µg/L	1	01/20/2024 9:10	01/04/2024 7:12
24010446-025A	ECDC-03	NELAP	1.0	1.7	µg/L	1	01/25/2024 17:32	01/04/2024 7:14
24010446-026A	ECDC-04	NELAP	1.0	< 1.0	µg/L	1	01/25/2024 17:37	01/04/2024 7:14
24010446-027A	ECDC-05	NELAP	1.0	1.5	µg/L	1	01/25/2024 18:29	01/04/2024 7:16
24010446-028A	ECDC-06	NELAP	1.0	< 1.0	µg/L	1	01/26/2024 16:17	01/04/2024 7:16
24010446-029A	ECDC-07	NELAP	1.0	1.7	µg/L	1	01/26/2024 16:21	01/04/2024 7:17
24010446-030A	ECDC-08	NELAP	1.0	< 1.0	µg/L	1	01/29/2024 10:10	01/04/2024 7:17
24010446-031A	ECDC-09	NELAP	1.0	10.3	µg/L	1	01/26/2024 16:29	01/04/2024 7:18
24010446-032A	ECDC-10	NELAP	1.0	9.7	µg/L	1	01/26/2024 16:34	01/04/2024 7:18
24010446-033A	ECDC-11	NELAP	1.0	1.8	µg/L	1	01/29/2024 10:14	01/04/2024 7:19
24010446-034A		NELAP	1.0	3.7	µg/L	1	01/26/2024 16:38	01/04/2024 7:19
24010446-035A	BRE-01	NELAP	1.0	5.8	µg/L	1	01/26/2024 17:08	01/05/2024 5:32
24010446-036A		NELAP	1.0	6.3	µg/L	1	01/26/2024 17:12	01/05/2024 5:34
24010446-037A		NELAP	1.0	1.3	µg/L	1	01/26/2024 17:17	01/05/2024 5:35
24010446-038A		NELAP	1.0	< 1.0	µg/L	1	01/26/2024 17:21	01/05/2024 5:36
24010446-039A		NELAP	1.0	1.5	µg/L	1	01/29/2024 10:17	01/05/2024 5:36
24010446-040A		NELAP	1.0	1.5	µg/L	1	01/29/2024 10:32	01/05/2024 5:36
24010446-041A		NELAP	1.0	4.3	µg/L	1	01/26/2024 18:00	01/05/2024 5:38
24010446-042A	BRE-08	NELAP	1.0	< 1.0	µg/L	1	01/26/2024 18:04	01/05/2024 5:39
24010446-043A	BRE-09	NELAP	1.0	< 1.0	µg/L	1	01/29/2024 10:36	01/05/2024 5:39
24010446-044A		NELAP	1.0	< 1.0	µg/L	1	01/26/2024 18:09	01/05/2024 5:41
24010446-045A	BRE-11	NELAP	1.0	1.7	µg/L	1	01/26/2024 18:13	01/05/2024 5:43
24010446-046A	BRE-12	NELAP	1.0	4.2	µg/L	1	01/26/2024 18:17	01/05/2024 5:44
24010446-047A	BRE-13	NELAP	1.0	< 1.0	µg/L	1	01/26/2024 18:21	01/05/2024 5:45
24010446-048A	BRE-14	NELAP	1.0	< 1.0	µg/L	1	01/25/2024 9:53	01/05/2024 5:46



Laboratory Results

http://www.teklabinc.com/

Client: Geotechnology, Inc. Work Order: 24010446

Client Project: J044517.01 Report Date: 30-Jan-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								
24010446-049 <i>A</i>	BRE-15	NELAP	1.0	< 1.0	µg/L	1	01/25/2024 9:57	01/05/2024 5:47
24010446-050A	BRE-16	NELAP	1.0	2.5	µg/L	1	01/25/2024 10:02	01/05/2024 5:48
24010446-051A	BRE-17	NELAP	1.0	2.5	µg/L	1	01/25/2024 10:06	01/05/2024 5:50
24010446-052A	BRE-18	NELAP	1.0	2.2	µg/L	1	01/25/2024 12:29	01/05/2024 5:51
24010446-053A	BRE-19	NELAP	1.0	1.5	µg/L	1	01/25/2024 10:10	01/05/2024 5:52
24010446-054A	BRE-20	NELAP	1.0	1.5	µg/L	1	01/25/2024 10:14	01/05/2024 5:53
24010446-055A	BRE-21	NELAP	1.0	1.3	µg/L	1	01/25/2024 10:18	01/05/2024 5:54
24010446-056A	BRE-22	NELAP	1.0	2.9	µg/L	1	01/25/2024 10:22	01/05/2024 5:55
24010446-057A	BRE-23	NELAP	1.0	1.9	µg/L	1	01/25/2024 10:26	01/05/2024 5:56
24010446-058A	BRE-24	NELAP	1.0	< 1.0	µg/L	1	01/25/2024 10:30	01/05/2024 5:57
24010446-059A	BRE-25	NELAP	1.0	2.8	µg/L	1	01/25/2024 12:01	01/05/2024 5:58
24010446-060A	BRE-26	NELAP	1.0	2.6	µg/L	1	01/25/2024 12:05	01/05/2024 6:00



Receiving Check List

http://www.teklabinc.com/

Work Order: 24010446 Client: Geotechnology, Inc. Client Project: J044517.01 Report Date: 30-Jan-24 Carrier: Employee Received By: NGR Completed by: Ontoer Oblacce Reviewed by: On: On: 05-Jan-24 05-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? **~** 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 Yes **~** No Sufficient sample volume for indicated test? **~** No \square All samples received within holding time? Yes NA 🗸 Field Lab \square Reported field parameters measured: Yes 🗸 No 🗌 Container/Temp Blank temperature in compliance? When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected. Water - at least one vial per sample has zero headspace? Yes 🗌 No 🗀 No VOA vials 🗸 No TOX containers Water - TOX containers have zero headspace? Yes No 🗌 Yes 🗹 No 🗌 Water - pH acceptable upon receipt? NA 🗸 NPDES/CWA TCN interferences checked/treated in the field? Yes No 🗀

Samples were checked for turbidity and then preserved with nitric acid upon arrival in the laboratory. - amberdilallo - 1/5/2024 3:02:11 PM

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

CHAIN OF CUSTODY

pg. 7 of 25 Work order # 240/0448

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.

BottleOrder.

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CHAIN OF CUSTODY

pg. 8 of 25 Work order # 2401044U

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.



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.