



8612 Eagle Creek Parkway, Savage, MN 55378-1284  
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mailbox@FieldConsultingInc.com

November 24, 2020

ISD #831  
6100 North 210th Street  
Forest Lake, MN 55025  
Attn: Bill Schwartz

**RE: Final Report – First Draw Lead in Drinking Water Sampling**  
**SITES: Maintenance Building, Transportation Facility, Forest Lake Sports Center**

PROJECT #: **20101**

## **I. INTRODUCTION**

This report presents the results of testing for lead in drinking water using first draw sampling following the Minnesota Department of Health (MDH) guide “Reducing Lead in Drinking Water: A Technical Guidance and Model Plan for Minnesota’s Public Schools (Revision April 2018).” Following MDH guidance, Field Environmental Consulting, Inc. (FIELD ENVIRONMENTAL) tested water outlets in November 2020 using *high* and *medium* priority sampling strategies at the Maintenance Building, Transportation Facility and Sports Center.

## **II. DISCUSSION**

Lead is a toxic metal that is harmful to human health when it is ingested or inhaled. Unlike other environmental contaminants, lead is stored in bones and can be released over time into the bloodstream. Lead exposure is a serious health concern, especially for young children and infants. Children’s bodies absorb more of the lead they are exposed to than adults. Exposure to high levels of lead in children and infants may result in developmental delays, lower IQ’s, hearing loss, hyperactivity, and learning disabilities. Children under the age of six are the most at risk population. Damage from lead exposure in children is permanent. Fortunately, the impacts of lead exposure can be minimized with good nutrition, a stimulating education, and a supportive environment.

High blood lead levels in adults have been linked to increased blood pressure, poor muscle coordination, nerve damage, decreased fertility, and hearing and vision impairment. Pregnant women and their fetuses are especially vulnerable to lead exposure since lead can significantly harm the fetus, causing lower birth weight and slowing normal mental and physical developments.

The only way to determine how much lead may be present in drinking water is to have the water tested. Per Minnesota Statute, Section 121A.335, *Lead in School Drinking Water*, schools are required to test each tap used for drinking or food preparation at least once every five years.

## **III. METHODOLOGY**

FIELD ENVIRONMENTAL collected first draw samples. First draw samples are collected prior to the fixture being used or flushed for the day when water has sat undisturbed in the plumbing system for at least six (6) hours; not exceeding eighteen (18) hours. Water was collected immediately in the morning before it could be used for other purposes. First draw samples were collected using sterile 250 milliliter (mL) sampling bottles with a nitric acid (HNO<sub>3</sub>) preservative. The bottles were filled to the top, capped, recorded, and transported to a certified drinking water laboratory. Results from first draw sampling indicate lead levels for water that has been in direct contact with the tap or fixture and the section of

plumbing closest to the outlet. Analysis was conducted by Pace Analytical Services, Inc. of Minneapolis, Minnesota using EPA Method 200.8 ICPMS for determination of lead in drinking water. Pace Analytical Services, Inc. provided results in micrograms/liter ( $\mu\text{g/L}$ ) which is also commonly expressed as parts per billion (ppb).

#### IV. RESULTS

Given that lead is still found in many environments and products, it is important to recognize that attaining zero exposure to lead in drinking water may not be reasonable, or even possible. However, MDH strongly recommends that schools take remedial action if samples from drinking water produce lead levels greater than 20 ppb (or 20  $\mu\text{g/L}$ , micrograms per liter). This is commonly referred to as the Action Level.

A complete table of all sample locations and corresponding results is provided in Appendix A. Building maps indicating sampling locations and color-coded results are provided in Appendix B. Pace Analytical laboratory reports are provided in Appendix C.

#### Maintenance Building:

None of the three (3) samples collected in the Maintenance Building were above the recommended limit of 20 ppb.

Site Name: Maintenance Building				
Date: 11/6/2020				
Floor	Location	Sample ID	Type DF = Drinking Fountain SNK = Sink WC = Water Cooler BF = Bottle Filler K=Kettle	Lead Result (ppb)
First	Kitchen	1	SNK	1.1
First	Hall	2	WC	0.81
First	Kitchen	3	WC	ND

ND=none detected

#### Transportation Facility:

None of the seven (7) samples collected in the Maintenance Building were above the recommended limit of 20 ppb.

Site Name: Transportation Facility				
Dates: 11/6/2020				
Floor	Location	Sample ID	Type DF = Drinking Fountain SNK = Sink WC = Water Cooler BF = Bottle Filler K=Kettle Bunn = Coffee Maker	Lead Result (ppb)
First	Kitchen	1	WC	ND
First	Kitchen	2	SNK	0.36
First	Kitchen	3	Bunn	6.7
First	Hall	4	WC	ND
First	Hall	5	BF	ND
First	Hall	6	WC	ND
First	Garage	7	SNK	1

ND=none detected

**Sports Center:**

None of the twelve (12) samples collected at the Forest Lake Sports Center were above the recommended limit of 20 ppb.

Site Name: **Sports Center**

Dates: **11/13/2020**

Floor	Location	Sample ID	Type DF = Drinking Fountain SNK = Sink WC = Water Cooler BF = Bottle Filler K=Kettle	Lead Result (ppb)
First	North Hallway	1	WC	ND
First	North Hallway	2	WC	ND
First	North Hallway	3	BF	ND
First	South Hallway	4	WC	ND
First	South Hallway	5	WC	ND
First	South Hallway	6	BF	ND
Second	Concession	7	SNK	2.5
Second	North Hallway	8	WC	0.41
Second	North Hallway	9	WC	0.61
Second	Concession	10	SNK	1.5
Second	South Hallway	11	WC	0.16
Second	South Hallway	12	WC	0.20

ND=none detected

## V. RECOMMENDATIONS

As stated in the MDH guidance, priority action should be taken to reduce exposure to lead for those water outlets above the action level. However, all collected samples were below the action level and require no remedial efforts.

Water from other fixtures such as bathroom taps, hose bibs, or custodial closet sinks (*low priority* outlets) which are not normally deigned for human consumption should be clearly marked as such, otherwise, the District should consider testing for lead concentration for those additional taps/fixtures. FIELD ENVIRONMENTAL provided labels for labeling those fixtures.

Minnesota Statutes section 121A.335, subdivision 5 requires a school district to “make the results of testing available to the public for review and must notify parents of the availability of the information.” ISD #831 is required to communicate lead in drinking water results. School employees, students, and parents shall be informed of the results within a reasonable time. Results of first draw sampling and any follow-up testing should be easily accessible along with documentation of lead hazard reduction options.

## VI. REMARKS

The environmental services performed by FIELD ENVIRONMENTAL’s technicians, analysts and project managers for this project have been conducted in a manner consistent with the degree of care and technical skill exercised by environmental professionals currently practicing in this area under similar budget and time constraints. Recommendations contained in this report represent our professional judgment at the time the project was performed.

No warranty or guarantee, expressed or implied, is made regarding the findings, conclusions, or recommendations contained in this report.

FIELD ENVIRONMENTAL appreciates the opportunity to provide services to meet your environmental needs.

Any questions regarding the fieldwork, sample results or presented findings should be directed to Field Environmental Consulting, Inc.

**PREPARED and REVIEWED BY:**

**Field Environmental Consulting, Inc.**



Amy Murray, CSP (#27824)  
EHS Manager  
Amy@fieldconsultinginc.com

Parker Prose  
Safety & IAQ Specialist  
ParkerP@fieldconsultinginc.com

Attachments

Appendix A: Locations and Results Tables

Appendix B: Drawings

Appendix C: Laboratory Reports

**APPENDIX A**  
**LOCATIONS AND RESULTS TABLES**

Site Name: Maintenance Building

Dates: 11/6/2020

Floor	Room Number	Location	Sample ID	Type DF = Drinking Fountain SNK = Sink WC = Water Cooler BF = Bottle Filler	Lead Result (ppb)
First	-	Kitchen	1	SNK	1.1
First	-	Hall	2	WC	0.81
First	-	Kitchen	3	WC	ND

ND = None Detected

Site Name: Sports Center

Date: 11/13/2020

Floor	Room Number	Location	Sample ID	Type DF = Drinking Fountain SNK = Sink WC = Water Cooler BF = Bottle Filler	Lead Result (ppb)
First	-	North Hallway	1	WC	ND
First	-	North Hallway	2	WC	ND
First	-	North Hallway	3	BF	ND
First	-	South Hallway	4	WC	ND
First	-	South Hallway	5	WC	ND
First	-	South Hallway	6	BF	ND
Second	-	Concession	7	SNK	2.5
Second	-	North Hallway	8	WC	0.41
Second	-	North Hallway	9	WC	0.61
Second	-	Concession	10	SNK	1.5
Second	-	South Hallway	11	WC	0.16
Second	-	South Hallway	12	WC	0.2

ND = None Detected

Site Name: Transportation Facility

Date: 11/6/2020

Floor	Room Number	Location	Sample ID	Type DF = Drinking Fountain SNK = Sink WC = Water Cooler BF = Bottle Filler Bunn = Coffee Maker	Lead Result (ppb)
First	-	Kitchen	1	WC	ND
First	-	Kitchen	2	SNK	0.36
First	-	Kitchen	3	Bunn	6.7
First	-	Hall	4	WC	ND
First	-	Hall	5	BF	ND
First	-	Hall	6	WC	ND
First	-	Garage	7	SNK	1

ND = None Detected

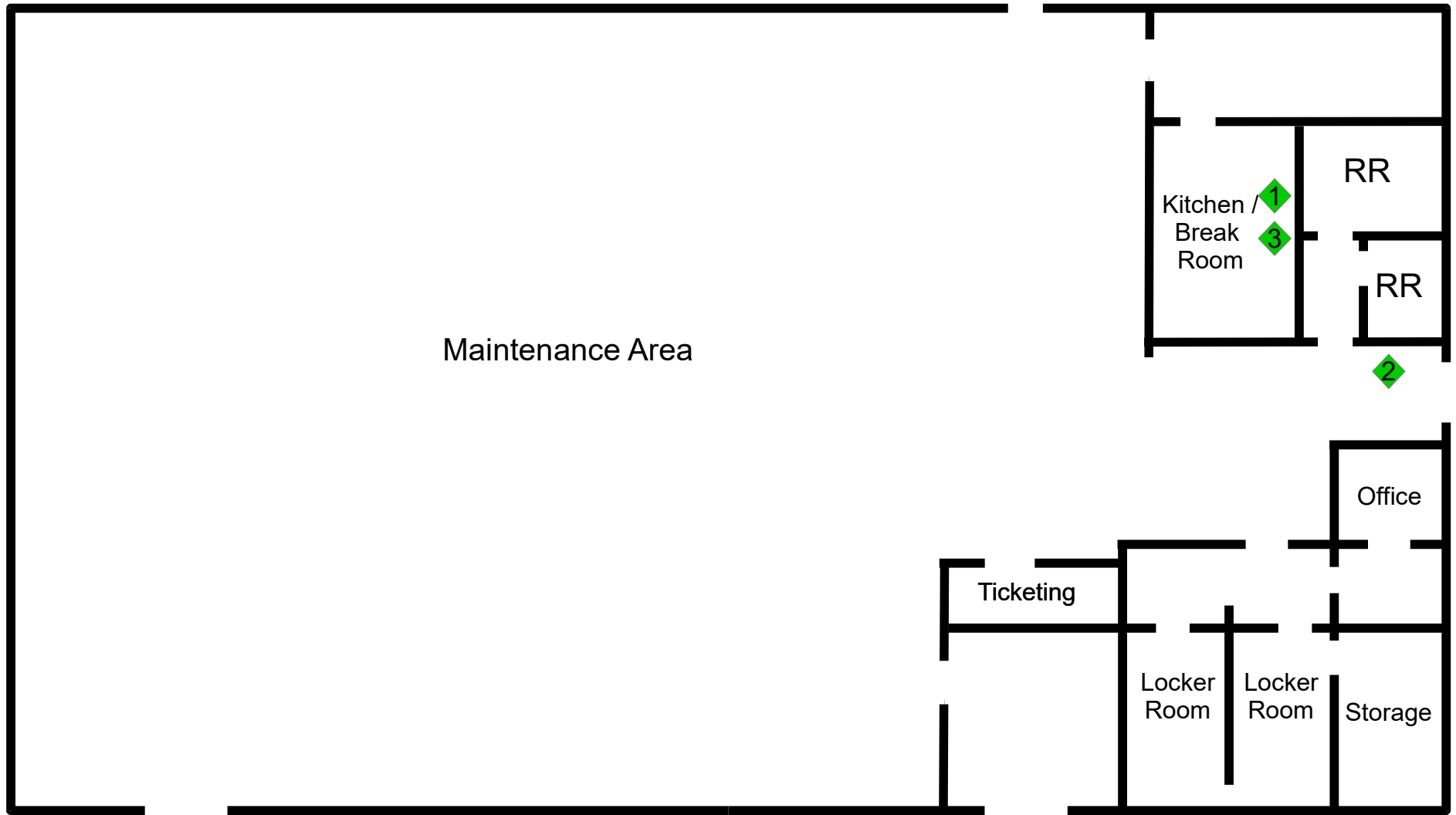
# **APPENDIX B**

## **Drawings**

Maintenance Garage  
Lead in Drinking Water  
Project # 20101

First Draw Sampling (November 2020)

- ◆ Lead < 2 ppb
- ◆ 2 ppb <= Lead <= 20 ppb
- ◆ Lead > 20 ppb



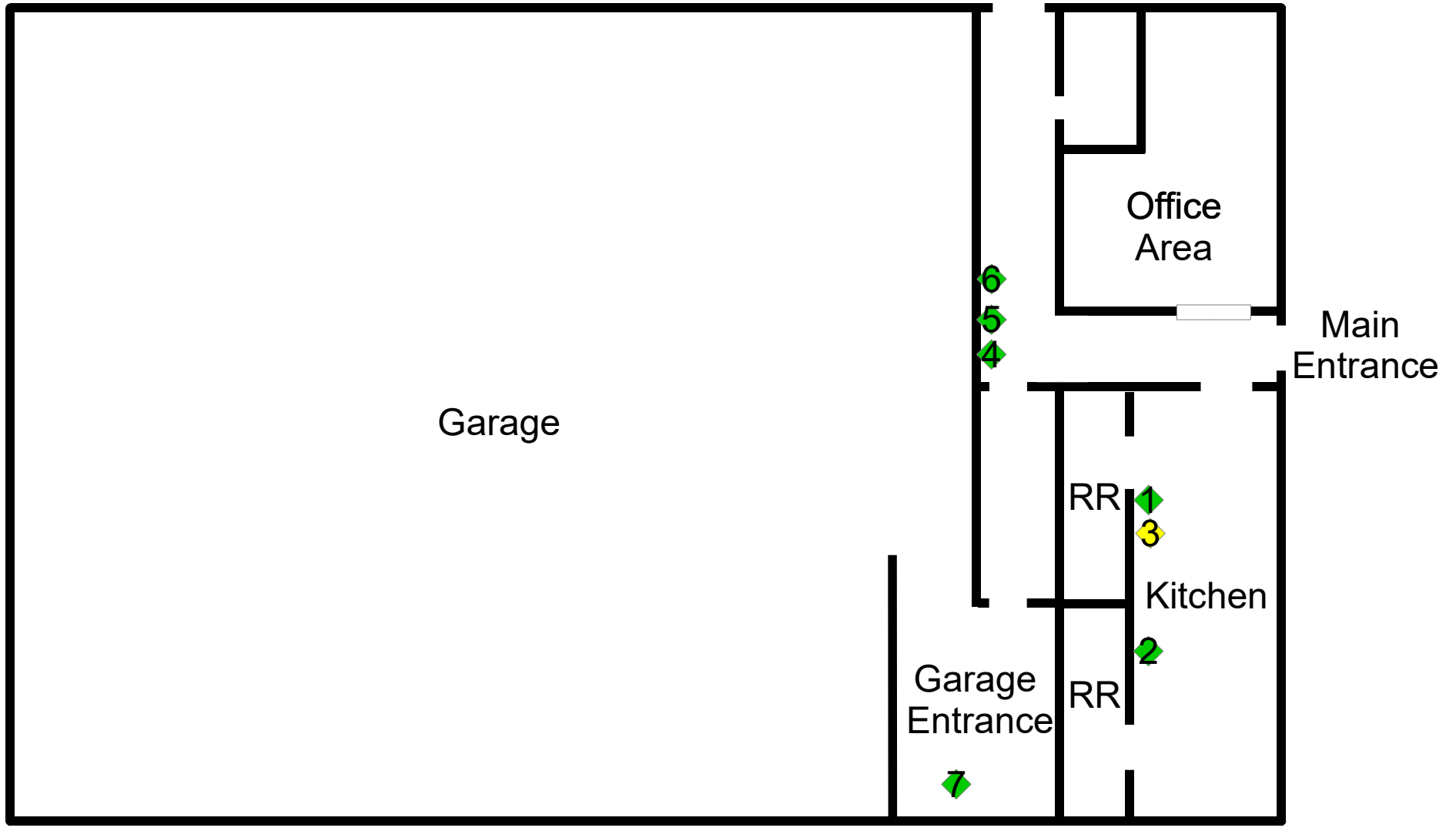


Transportation Facility  
Lead in Drinking Water  
Project # 20101



First Draw Sampling (November 2020)

- ◆ Lead < 2 ppb
- ◆ 2 ppb <= Lead <= 20 ppb
- ◆ Lead > 20 ppb

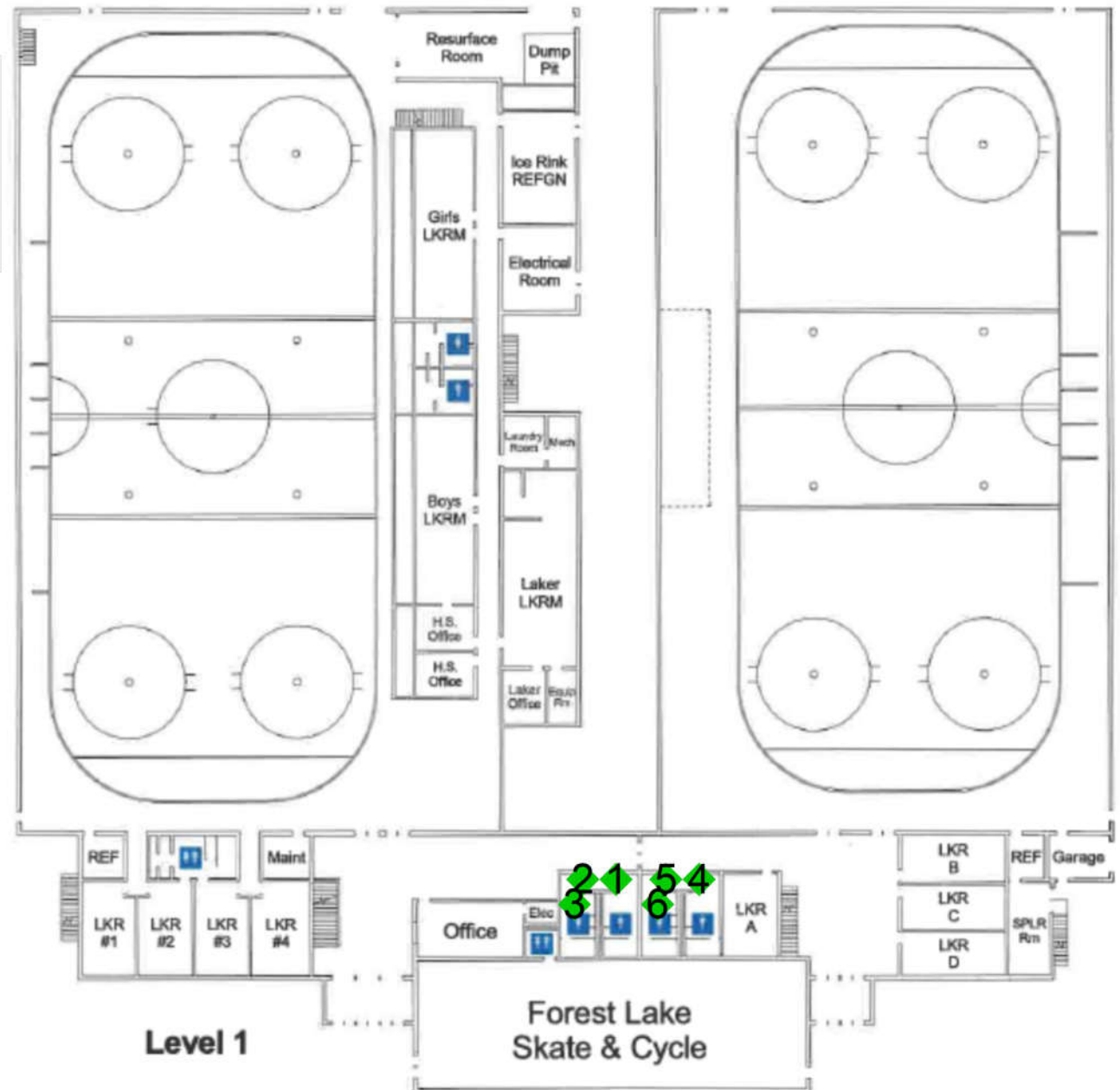


Sports Center  
Lead in Drinking Water  
Project # 20101



First Draw Sampling (November 2020)

- ◆ Lead < 2 ppb
- ◆ 2 ppb <= Lead <= 20 ppb
- ◆ Lead > 20 ppb



Sports Center  
Lead in Drinking Water  
Project # 20101

First Draw Sampling (November 2020)

- ◆ Lead < 2 ppb
- ◆ 2 ppb <= Lead <= 20 ppb
- ◆ Lead > 20 ppb



## **APPENDIX C**

### **LABORATORY REPORTS**

November 16, 2020

Amy Weinzierl  
Field Environmental Consulting  
8612 Eagle Creek Parkway  
Savage, MN 55378

RE: Project: 20101 - Forest Lake LIW  
Pace Project No.: 10538385

Dear Amy Weinzierl:

Enclosed are the analytical results for sample(s) received by the laboratory on November 06, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Jared Dickinson  
jared.dickinson@pacelabs.com  
(612)607-1700  
Project Manager

Enclosures

cc: Steve Field, Field Environmental Consulting  
General Mailbox, Field Environmental Consulting



## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
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## CERTIFICATIONS

Project: 20101 - Forest Lake LIW

Pace Project No.: 10538385

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### **Pace Analytical Services - Minneapolis MN**

1700 Elm Street SE, Minneapolis, MN 55414

1800 Elm Street SE, Minneapolis, MN 55414--Satellite Air Lab

A2LA Certification #: 2926.01\*

Alabama Certification #: 40770

Alaska Contaminated Sites Certification #: 17-009\*

Alaska DW Certification #: MN00064

Arizona Certification #: AZ0014\*

Arkansas DW Certification #: MN00064

Arkansas WW Certification #: 88-0680

California Certification #: 2929

Colorado Certification #: MN00064

Connecticut Certification #: PH-0256

EPA Region 8+Wyoming DW Certification #: via MN 027-053-137

Florida Certification #: E87605\*

Georgia Certification #: 959

Hawaii Certification #: MN00064

Idaho Certification #: MN00064

Illinois Certification #: 200011

Indiana Certification #: C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky DW Certification #: 90062

Kentucky WW Certification #: 90062

Louisiana DEQ Certification #: AI-03086\*

Louisiana DW Certification #: MN00064

Maine Certification #: MN00064\*

Maryland Certification #: 322

Massachusetts DWP Certification #: via MN 027-053-137

Michigan Certification #: 9909

Minnesota Certification #: 027-053-137\*

Minnesota Dept of Ag Certification #: via MN 027-053-137

Minnesota Petrofund Certification #: 1240\*

Mississippi Certification #: MN00064

Missouri Certification #: 10100

Montana Certification #: CERT0092

Nebraska Certification #: NE-OS-18-06

Nevada Certification #: MN00064

New Hampshire Certification #: 2081\*

New Jersey Certification #: MN002

New York Certification #: 11647\*

North Carolina DW Certification #: 27700

North Carolina WW Certification #: 530

North Dakota Certification #: R-036

Ohio DW Certification #: 41244

Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507\*

Oregon Primary Certification #: MN300001

Oregon Secondary Certification #: MN200001\*

Pennsylvania Certification #: 68-00563\*

Puerto Rico Certification #: MN00064

South Carolina Certification #:74003001

Tennessee Certification #: TN02818

Texas Certification #: T104704192\*

Utah Certification #: MN00064\*

Vermont Certification #: VT-027053137

Virginia Certification #: 460163\*

Washington Certification #: C486\*

West Virginia DEP Certification #: 382

West Virginia DW Certification #: 9952 C

Wisconsin Certification #: 999407970

Wyoming UST Certification #: via A2LA 2926.01

USDA Permit #: P330-19-00208

\*Please Note: Applicable air certifications are denoted with an asterisk (\*).

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## SAMPLE SUMMARY

Project: 20101 - Forest Lake LIW  
Pace Project No.: 10538385

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10538385001	01-MAINT-KITCHEN-SNK	Drinking Water	11/06/20 05:30	11/06/20 11:07
10538385002	02-MAINT-HALL-WC	Drinking Water	11/06/20 05:30	11/06/20 11:07
10538385003	03-MAINT-KITCHEN-WC	Drinking Water	11/06/20 05:30	11/06/20 11:07

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### SAMPLE ANALYTE COUNT

Project: 20101 - Forest Lake LIW  
Pace Project No.: 10538385

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Lab ID	Sample ID	Method	Analysts	Analytes Reported
10538385001	01-MAINT-KITCHEN-SNK	EPA 200.8	PW1	1
10538385002	02-MAINT-HALL-WC	EPA 200.8	PW1	1
10538385003	03-MAINT-KITCHEN-WC	EPA 200.8	PW1	1

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PASI-M = Pace Analytical Services - Minneapolis

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## ANALYTICAL RESULTS

Project: 20101 - Forest Lake LIW

Pace Project No.: 10538385

<b>Sample: 01-MAINT-KITCHEN-SNK</b>		<b>Lab ID: 10538385001</b>	Collected: 11/06/20 05:30	Received: 11/06/20 11:07	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

**200.8 MET ICPMS, DW**

Analytical Method: EPA 200.8  
Pace Analytical Services - Minneapolis

Lead	1.1	ug/L	0.10	1		11/16/20 12:54	7439-92-1	
------	-----	------	------	---	--	----------------	-----------	--

<b>Sample: 02-MAINT-HALL-WC</b>		<b>Lab ID: 10538385002</b>	Collected: 11/06/20 05:30	Received: 11/06/20 11:07	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

**200.8 MET ICPMS, DW**

Analytical Method: EPA 200.8  
Pace Analytical Services - Minneapolis

Lead	0.81	ug/L	0.10	1		11/16/20 12:57	7439-92-1	
------	------	------	------	---	--	----------------	-----------	--

<b>Sample: 03-MAINT-KITCHEN-WC</b>		<b>Lab ID: 10538385003</b>	Collected: 11/06/20 05:30	Received: 11/06/20 11:07	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

**200.8 MET ICPMS, DW**

Analytical Method: EPA 200.8  
Pace Analytical Services - Minneapolis

Lead	ND	ug/L	0.10	1		11/16/20 12:59	7439-92-1	
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**QUALITY CONTROL DATA**

Project: 20101 - Forest Lake LIW

Pace Project No.: 10538385

QC Batch: 709940	Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8	Analysis Description: ICPMS Metals, Drinking Water
	Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10538385001, 10538385002, 10538385003

METHOD BLANK: 3792232 Matrix: Water  
Associated Lab Samples: 10538385001, 10538385002, 10538385003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	0.10	11/16/20 12:22	

LABORATORY CONTROL SAMPLE: 3792233

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	100	105	105	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3797994 3797995

Parameter	Units	10538349021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	ug/L	0.43	100	100	102	104	102	103	70-130	1	20	

MATRIX SPIKE SAMPLE: 3797996

Parameter	Units	10538385003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	ND	100	107	107	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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## QUALIFIERS

Project: 20101 - Forest Lake LIW

Pace Project No.: 10538385

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: 20101 - Forest Lake LIW  
Pace Project No.: 10538385

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10538385001	01-MAINT-KITCHEN-SNK	EPA 200.8	709940		
10538385002	02-MAINT-HALL-WC	EPA 200.8	709940		
10538385003	03-MAINT-KITCHEN-WC	EPA 200.8	709940		

**REPORT OF LABORATORY ANALYSIS**

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Document Name:  
**Sample Condition Upon Receipt (SCUR) - MN**

Document No.:  
**ENV-FRM-MIN4-0150 Rev.01**

Document Revised: 12Aug2020  
**Page 1 of 1**

Pace Analytical Services -  
**Minneapolis**

**Sample Condition Upon Receipt**

Client Name: Field Environmental Consulting

Project #:

**WO# : 10538385**

PM: JDD Due Date: 11/20/20  
CLIENT: FIELD ENV

Courier:  Fed Ex  UPS  USPS  Client  
 Pace  SpeedDee  Commercial

See Exceptions   
ENV-FRM-MIN4-0142

Tracking Number:

Custody Seal on Cooler/Box Present?  Yes  No Seals Intact?  Yes  No Biological Tissue Frozen?  Yes  No  N/A

Packing Material:  Bubble Wrap  Bubble Bags  None  Other: Temp Blank?  Yes  No

Thermometer:  T1(0461)  T2(1336)  T3(0459)  T4(0254)  T5(0489) Type of Ice:  Wet  Blue  None  Dry  Melted

Did Samples Originate in West Virginia?  Yes  No Were All Container Temps Taken?  Yes  No  N/A

Temp should be above freezing to 6°C Cooler Temp Read w/temp blank: °C Average Corrected Temp (no temp blank only): 16.0 °C  See Exceptions ENV-FRM-MIN4-0142  1 Container

Correction Factor: +0.1 Cooler Temp Corrected w/temp blank: °C

USDA Regulated Soil: ( N/A, water sample/Other: ) Date/Initials of Person Examining Contents: MVZ 11-5-20

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)?  Yes  No Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)?  Yes  No

If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

	COMMENTS:
Chain of Custody Present and Filled Out? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Relinquished? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Sampler Name and/or Signature on COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	4.
Short Hold Time Analysis (<72 hr)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5. <input type="checkbox"/> Fecal Coliform <input type="checkbox"/> HPC <input type="checkbox"/> Total Coliform/E.coli <input type="checkbox"/> BOD/cBOD <input type="checkbox"/> Hex Chrome <input type="checkbox"/> Turbidity <input type="checkbox"/> Nitrate <input type="checkbox"/> Nitrite <input type="checkbox"/> Orthophos <input type="checkbox"/> Other
Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	7.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
-Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
Field Filtered Volume Received for Dissolved Tests? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10. Is sediment visible in the dissolved container? <input type="checkbox"/> Yes <input type="checkbox"/> No
Is sufficient information available to reconcile the samples to the COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	11. If no, write ID/ Date/Time on Container Below: See Exception <input type="checkbox"/> ENV-FRM-MIN4-0142
Matrix: <input checked="" type="checkbox"/> Water <input type="checkbox"/> Soil <input type="checkbox"/> Oil <input type="checkbox"/> Other	
All containers needing acid/base preservation have been checked? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12. Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> NaOH <input checked="" type="checkbox"/> HNO <sub>3</sub> <input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> Zinc Acetate
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Positive for Res. Chlorine? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No pH Paper Lot#
	Res. Chlorine: 0-6 Roll <u>2214/9</u> 0-6 Strip 0-14 Strip
Extra labels present on soil VOA or WIDRO containers? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13. See Exception <input type="checkbox"/> ENV-FRM-MIN4-0142
Headspace in VOA Vials (greater than 6mm)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Trip Blank Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Trip Blank Custody Seals Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Pace Trip Blank Lot # (if purchased):

**CLIENT NOTIFICATION/RESOLUTION**

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/Resolution: \_\_\_\_\_

Field Data Required?  Yes  No

**Project Manager Review:**

[Signature] Date: 11/9/20

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled by: MVZ Page 10 of 11



November 16, 2020

Amy Weinzierl  
Field Environmental Consulting  
8612 Eagle Creek Parkway  
Savage, MN 55378

RE: Project: 20101 - Forest Lake LIW  
Pace Project No.: 10538384

Dear Amy Weinzierl:

Enclosed are the analytical results for sample(s) received by the laboratory on November 06, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Jared Dickinson  
jared.dickinson@pacelabs.com  
(612)607-1700  
Project Manager

Enclosures

cc: Steve Field, Field Environmental Consulting  
General Mailbox, Field Environmental Consulting



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 20101 - Forest Lake LIW

Pace Project No.: 10538384

---

### **Pace Analytical Services - Minneapolis MN**

1700 Elm Street SE, Minneapolis, MN 55414  
1800 Elm Street SE, Minneapolis, MN 55414--Satellite Air Lab

A2LA Certification #: 2926.01\*  
Alabama Certification #: 40770  
Alaska Contaminated Sites Certification #: 17-009\*  
Alaska DW Certification #: MN00064  
Arizona Certification #: AZ0014\*  
Arkansas DW Certification #: MN00064  
Arkansas WW Certification #: 88-0680  
California Certification #: 2929  
Colorado Certification #: MN00064  
Connecticut Certification #: PH-0256  
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137  
Florida Certification #: E87605\*  
Georgia Certification #: 959  
Hawaii Certification #: MN00064  
Idaho Certification #: MN00064  
Illinois Certification #: 200011  
Indiana Certification #: C-MN-01  
Iowa Certification #: 368  
Kansas Certification #: E-10167  
Kentucky DW Certification #: 90062  
Kentucky WW Certification #: 90062  
Louisiana DEQ Certification #: AI-03086\*  
Louisiana DW Certification #: MN00064  
Maine Certification #: MN00064\*  
Maryland Certification #: 322  
Massachusetts DWP Certification #: via MN 027-053-137  
Michigan Certification #: 9909  
Minnesota Certification #: 027-053-137\*  
Minnesota Dept of Ag Certification #: via MN 027-053-137  
Minnesota Petrofund Certification #: 1240\*

Mississippi Certification #: MN00064  
Missouri Certification #: 10100  
Montana Certification #: CERT0092  
Nebraska Certification #: NE-OS-18-06  
Nevada Certification #: MN00064  
New Hampshire Certification #: 2081\*  
New Jersey Certification #: MN002  
New York Certification #: 11647\*  
North Carolina DW Certification #: 27700  
North Carolina WW Certification #: 530  
North Dakota Certification #: R-036  
Ohio DW Certification #: 41244  
Ohio VAP Certification #: CL101  
Oklahoma Certification #: 9507\*  
Oregon Primary Certification #: MN300001  
Oregon Secondary Certification #: MN200001\*  
Pennsylvania Certification #: 68-00563\*  
Puerto Rico Certification #: MN00064  
South Carolina Certification #: 74003001  
Tennessee Certification #: TN02818  
Texas Certification #: T104704192\*  
Utah Certification #: MN00064\*  
Vermont Certification #: VT-027053137  
Virginia Certification #: 460163\*  
Washington Certification #: C486\*  
West Virginia DEP Certification #: 382  
West Virginia DW Certification #: 9952 C  
Wisconsin Certification #: 999407970  
Wyoming UST Certification #: via A2LA 2926.01  
USDA Permit #: P330-19-00208  
\*Please Note: Applicable air certifications are denoted with an asterisk (\*).

---

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 20101 - Forest Lake LIW

Pace Project No.: 10538384

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10538384001	01-TRANSPORTATION-KITCHEN-WC	Drinking Water	11/06/20 05:00	11/06/20 11:07
10538384002	02-TRANSPORTATION-KITCHEN-SNK	Drinking Water	11/06/20 05:00	11/06/20 11:07
10538384003	03-TRANSPORTATION-KITCHEN-BUNN	Drinking Water	11/06/20 05:00	11/06/20 11:07
10538384004	04-TRANSPORTATION-HALL-WC	Drinking Water	11/06/20 05:00	11/06/20 11:07
10538384005	05-TRANSPORTATION-HALL-BF	Drinking Water	11/06/20 05:00	11/06/20 11:07
10538384006	06-TRANSPORTATION-HALL-RWC	Drinking Water	11/06/20 05:00	11/06/20 11:07
10538384007	07-TRANSPORTATION-GARAGE-SNK	Drinking Water	11/06/20 05:00	11/06/20 11:07

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 20101 - Forest Lake LIW

Pace Project No.: 10538384

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10538384001	01-TRANSPORTATION-KITCHEN-WC	EPA 200.8	PW1	1
10538384002	02-TRANSPORTATION-KITCHEN-SNK	EPA 200.8	PW1	1
10538384003	03-TRANSPORTATION-KITCHEN-BUNN	EPA 200.8	PW1	1
10538384004	04-TRANSPORTATION-HALL-WC	EPA 200.8	PW1	1
10538384005	05-TRANSPORTATION-HALL-BF	EPA 200.8	PW1	1
10538384006	06-TRANSPORTATION-HALL-RWC	EPA 200.8	PW1	1
10538384007	07-TRANSPORTATION-GARAGE-SNK	EPA 200.8	PW1	1

PASI-M = Pace Analytical Services - Minneapolis

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 20101 - Forest Lake LIW  
Pace Project No.: 10538384

**Sample: 01-TRANSPORTATION-KITCHEN-WC**      **Lab ID: 10538384001**      Collected: 11/06/20 05:00      Received: 11/06/20 11:07      Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS, DW</b>		Analytical Method: EPA 200.8 Pace Analytical Services - Minneapolis						
Lead	ND	ug/L	0.10	1		11/16/20 12:35	7439-92-1	

**Sample: 02-TRANSPORTATION-KITCHEN-SNK**      **Lab ID: 10538384002**      Collected: 11/06/20 05:00      Received: 11/06/20 11:07      Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS, DW</b>		Analytical Method: EPA 200.8 Pace Analytical Services - Minneapolis						
Lead	0.36	ug/L	0.10	1		11/16/20 12:37	7439-92-1	

**Sample: 03-TRANSPORTATION-KITCHEN-BUNN**      **Lab ID: 10538384003**      Collected: 11/06/20 05:00      Received: 11/06/20 11:07      Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS, DW</b>		Analytical Method: EPA 200.8 Pace Analytical Services - Minneapolis						
Lead	6.7	ug/L	0.10	1		11/16/20 12:44	7439-92-1	

**Sample: 04-TRANSPORTATION-HALL-WC**      **Lab ID: 10538384004**      Collected: 11/06/20 05:00      Received: 11/06/20 11:07      Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS, DW</b>		Analytical Method: EPA 200.8 Pace Analytical Services - Minneapolis						
Lead	ND	ug/L	0.10	1		11/16/20 12:46	7439-92-1	

**Sample: 05-TRANSPORTATION-HALL-BF**      **Lab ID: 10538384005**      Collected: 11/06/20 05:00      Received: 11/06/20 11:07      Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS, DW</b>		Analytical Method: EPA 200.8 Pace Analytical Services - Minneapolis						
Lead	ND	ug/L	0.10	1		11/16/20 12:48	7439-92-1	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 20101 - Forest Lake LIW

Pace Project No.: 10538384

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**Sample: 06-TRANSPORTATION-HALL-RWC**      **Lab ID: 10538384006**      Collected: 11/06/20 05:00      Received: 11/06/20 11:07      Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS, DW</b>								
Analytical Method: EPA 200.8 Pace Analytical Services - Minneapolis								
Lead	ND	ug/L	0.10	1		11/16/20 12:50	7439-92-1	

---

**Sample: 07-TRANSPORTATION-GARAGE-SNK**      **Lab ID: 10538384007**      Collected: 11/06/20 05:00      Received: 11/06/20 11:07      Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS, DW</b>								
Analytical Method: EPA 200.8 Pace Analytical Services - Minneapolis								
Lead	1.0	ug/L	0.10	1		11/16/20 12:52	7439-92-1	

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 20101 - Forest Lake LIW

Pace Project No.: 10538384

QC Batch:	709940	Analysis Method:	EPA 200.8
QC Batch Method:	EPA 200.8	Analysis Description:	ICPMS Metals, Drinking Water
		Laboratory:	Pace Analytical Services - Minneapolis

Associated Lab Samples: 10538384001, 10538384002, 10538384003, 10538384004, 10538384005, 10538384006, 10538384007

METHOD BLANK: 3792232 Matrix: Water  
Associated Lab Samples: 10538384001, 10538384002, 10538384003, 10538384004, 10538384005, 10538384006, 10538384007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	0.10	11/16/20 12:22	

LABORATORY CONTROL SAMPLE: 3792233

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	100	105	105	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3797994 3797995

Parameter	Units	10538349021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	ug/L	0.43	100	100	102	104	102	103	70-130	1	20	

MATRIX SPIKE SAMPLE: 3797996

Parameter	Units	10538385003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	ND	100	107	107	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: 20101 - Forest Lake LIW

Pace Project No.: 10538384

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 20101 - Forest Lake LIW

Pace Project No.: 10538384

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10538384001	01-TRANSPORTATION-KITCHEN-WC	EPA 200.8	709940		
10538384002	02-TRANSPORTATION-KITCHEN-SNK	EPA 200.8	709940		
10538384003	03-TRANSPORTATION-KITCHEN-BUNN	EPA 200.8	709940		
10538384004	04-TRANSPORTATION-HALL-WC	EPA 200.8	709940		
10538384005	05-TRANSPORTATION-HALL-BF	EPA 200.8	709940		
10538384006	06-TRANSPORTATION-HALL-RWC	EPA 200.8	709940		
10538384007	07-TRANSPORTATION-GARAGE-SNK	EPA 200.8	709940		

### REPORT OF LABORATORY ANALYSIS

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Document Name:  
**Sample Condition Upon Receipt (SCUR) - MN**  
 Document No.:  
**ENV-FRM-MIN4-0150 Rev.01**

Document Revised: 12Aug2020  
 Page 1 of 1  
 Pace Analytical Services -  
 Minneapolis

Sample Condition  
 Upon Receipt

Client Name: Field Environmental Consulting Project #: \_\_\_\_\_

**WO#: 10538384**

Courier:  Fed Ex  UPS  USPS  Client  
 Pace  SpeeDee  Commercial

PM: JDD Due Date: 11/20/20  
 CLIENT: FIELD ENV

See Exceptions   
 ENV-FRM-MIN4-0142

Tracking Number: \_\_\_\_\_

Custody Seal on Cooler/Box Present?  Yes  No Seals Intact?  Yes  No Biological Tissue Frozen?  Yes  No  N/A

Packing Material:  Bubble Wrap  Bubble Bags  None  Other: \_\_\_\_\_ Temp Blank?  Yes  No

Thermometer:  T1(0461)  T2(1336)  T3(0459)  
 T4(0254)  T5(0489) Type of Ice:  Wet  Blue  None  Dry  Melted

Did Samples Originate in West Virginia?  Yes  No Were All Container Temps Taken?  Yes  No  N/A

Temp should be above freezing to 6°C Cooler Temp Read w/temp blank: \_\_\_\_\_ °C

Average Corrected Temp (no temp blank only): 16.1 °C  See Exceptions ENV-FRM-MIN4-0142  1 Container

Correction Factor: +0.1 Cooler Temp Corrected w/temp blank: \_\_\_\_\_ °C

USDA Regulated Soil: ( N/A, water sample/Other: \_\_\_\_\_)

Date/Initials of Person Examining Contents: MVZ 11-6-20

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)?  Yes  No  
 Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)?  Yes  No

If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

	COMMENTS:
Chain of Custody Present and Filled Out? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Relinquished? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Sampler Name and/or Signature on COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	4.
Short Hold Time Analysis (<72 hr)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5. <input type="checkbox"/> Fecal Coliform <input type="checkbox"/> HPC <input type="checkbox"/> Total Coliform/E coli <input type="checkbox"/> BOD/cBOD <input type="checkbox"/> Hex Chrome <input type="checkbox"/> Turbidity <input type="checkbox"/> Nitrate <input type="checkbox"/> Nitrite <input type="checkbox"/> Orthophos <input type="checkbox"/> Other
Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	7.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
-Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
Field Filtered Volume Received for Dissolved Tests? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10. Is sediment visible in the dissolved container? <input type="checkbox"/> Yes <input type="checkbox"/> No
Is sufficient information available to reconcile the samples to the COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	11. If no, write ID/ Date/Time on Container Below: <input type="checkbox"/> See Exception ENV-FRM-MIN4-0142
Matrix: <input checked="" type="checkbox"/> Water <input type="checkbox"/> Soil <input type="checkbox"/> Oil <input type="checkbox"/> Other	
All containers needing acid/base preservation have been checked? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12. Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , <2pH, NaOH >9 Sulfide, NaOH >10 Cyanide) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> NaOH <input checked="" type="checkbox"/> HNO <sub>3</sub> <input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> Zinc Acetate <u>1-7 1/2</u>
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Positive for Res. <input type="checkbox"/> Yes <input type="checkbox"/> No Chlorine? <input type="checkbox"/> Yes <input type="checkbox"/> No pH Paper Lot# <input type="checkbox"/> See Exception ENV-FRM-MIN4-0142
	Res. Chlorine <u>0-6 Roll 221419</u> 0-6 Strip 0-14 Strip
Extra labels present on soil VOA or WIDRO containers? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> See Exception ENV-FRM-MIN4-0140
Headspace in VOA Vials (greater than 6mm)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Trip Blank Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Trip Blank Custody Seals Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Pace Trip Blank Lot # (if purchased): _____

CLIENT NOTIFICATION/RESOLUTION

Field Data Required?  Yes  No

Person Contacted: \_\_\_\_\_  
 Comments/Resolution: \_\_\_\_\_

Date/Time: \_\_\_\_\_

Project Manager Review: \_\_\_\_\_

Date: 11/9/20

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled by: MVZ Page 1 of 12



November 24, 2020

Amy Weinzierl  
Field Environmental Consulting  
8612 Eagle Creek Parkway  
Savage, MN 55378

RE: Project: 20101- Forest Lake LIW  
Pace Project No.: 10539262

Dear Amy Weinzierl:

Enclosed are the analytical results for sample(s) received by the laboratory on November 13, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Jared Dickinson  
jared.dickinson@pacelabs.com  
(612)607-1700  
Project Manager

Enclosures

cc: Steve Field, Field Environmental Consulting  
General Mailbox, Field Environmental Consulting



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 20101- Forest Lake LIW

Pace Project No.: 10539262

### **Pace Analytical Services - Minneapolis MN**

1700 Elm Street SE, Minneapolis, MN 55414

1800 Elm Street SE, Minneapolis, MN 55414--Satellite Air Lab

A2LA Certification #: 2926.01\*

Alabama Certification #: 40770

Alaska Contaminated Sites Certification #: 17-009\*

Alaska DW Certification #: MN00064

Arizona Certification #: AZ0014\*

Arkansas DW Certification #: MN00064

Arkansas WW Certification #: 88-0680

California Certification #: 2929

Colorado Certification #: MN00064

Connecticut Certification #: PH-0256

EPA Region 8+Wyoming DW Certification #: via MN 027-053-137

Florida Certification #: E87605\*

Georgia Certification #: 959

Hawaii Certification #: MN00064

Idaho Certification #: MN00064

Illinois Certification #: 200011

Indiana Certification #: C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky DW Certification #: 90062

Kentucky WW Certification #: 90062

Louisiana DEQ Certification #: AI-03086\*

Louisiana DW Certification #: MN00064

Maine Certification #: MN00064\*

Maryland Certification #: 322

Massachusetts DWP Certification #: via MN 027-053-137

Michigan Certification #: 9909

Minnesota Certification #: 027-053-137\*

Minnesota Dept of Ag Certification #: via MN 027-053-137

Minnesota Petrofund Certification #: 1240\*

Mississippi Certification #: MN00064

Missouri Certification #: 10100

Montana Certification #: CERT0092

Nebraska Certification #: NE-OS-18-06

Nevada Certification #: MN00064

New Hampshire Certification #: 2081\*

New Jersey Certification #: MN002

New York Certification #: 11647\*

North Carolina DW Certification #: 27700

North Carolina WW Certification #: 530

North Dakota Certification #: R-036

Ohio DW Certification #: 41244

Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507\*

Oregon Primary Certification #: MN300001

Oregon Secondary Certification #: MN200001\*

Pennsylvania Certification #: 68-00563\*

Puerto Rico Certification #: MN00064

South Carolina Certification #: 74003001

Tennessee Certification #: TN02818

Texas Certification #: T104704192\*

Utah Certification #: MN00064\*

Vermont Certification #: VT-027053137

Virginia Certification #: 460163\*

Washington Certification #: C486\*

West Virginia DEP Certification #: 382

West Virginia DW Certification #: 9952 C

Wisconsin Certification #: 999407970

Wyoming UST Certification #: via A2LA 2926.01

USDA Permit #: P330-19-00208

\*Please Note: Applicable air certifications are denoted with an asterisk (\*).

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 20101- Forest Lake LIW

Pace Project No.: 10539262

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10539262001	01-FLSC-1st N-WC	Drinking Water	11/13/20 06:00	11/13/20 15:15
10539262002	02-FLSC-1st N-WC	Drinking Water	11/13/20 06:00	11/13/20 15:15
10539262003	03-FLSC-1st N-BF	Drinking Water	11/13/20 06:00	11/13/20 15:15
10539262004	04-FLSC-1st S-WC	Drinking Water	11/13/20 06:00	11/13/20 15:15
10539262005	05-FLSC-1st S-WC	Drinking Water	11/13/20 06:00	11/13/20 15:15
10539262006	06-FLSC-1st S-BF	Drinking Water	11/13/20 06:00	11/13/20 15:15
10539262007	07-FLSC-Concessions-SNK	Drinking Water	11/13/20 06:00	11/13/20 15:15
10539262008	08-FLSC-2nd N-WC	Drinking Water	11/13/20 06:00	11/13/20 15:15
10539262009	09-FLSC-2nd N-WC	Drinking Water	11/13/20 06:00	11/13/20 15:15
10539262010	10-FLSC-Concessions-SNK	Drinking Water	11/13/20 06:00	11/13/20 15:15
10539262011	11-FLSC-2nd S-WC	Drinking Water	11/13/20 06:00	11/13/20 15:15
10539262012	12-FLSC-2nd S-WC	Drinking Water	11/13/20 06:00	11/13/20 15:15

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 20101- Forest Lake LIW

Pace Project No.: 10539262

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10539262001	01-FLSC-1st N-WC	EPA 200.8	PW1	1
10539262002	02-FLSC-1st N-WC	EPA 200.8	PW1	1
10539262003	03-FLSC-1st N-BF	EPA 200.8	PW1	1
10539262004	04-FLSC-1st S-WC	EPA 200.8	PW1	1
10539262005	05-FLSC-1st S-WC	EPA 200.8	PW1	1
10539262006	06-FLSC-1st S-BF	EPA 200.8	PW1	1
10539262007	07-FLSC-Concessions-SNK	EPA 200.8	PW1	1
10539262008	08-FLSC-2nd N-WC	EPA 200.8	PW1	1
10539262009	09-FLSC-2nd N-WC	EPA 200.8	PW1	1
10539262010	10-FLSC-Concessions-SNK	EPA 200.8	PW1	1
10539262011	11-FLSC-2nd S-WC	EPA 200.8	PW1	1
10539262012	12-FLSC-2nd S-WC	EPA 200.8	PW1	1

PASI-M = Pace Analytical Services - Minneapolis

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 20101- Forest Lake LIW  
Pace Project No.: 10539262

Sample: 01-FLSC-1st N-WC	Lab ID: 10539262001	Collected: 11/13/20 06:00	Received: 11/13/20 15:15	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

**200.8 MET ICPMS, DW**

Analytical Method: EPA 200.8  
Pace Analytical Services - Minneapolis

Lead	ND	ug/L	0.10	1		11/23/20 12:36	7439-92-1	
------	----	------	------	---	--	----------------	-----------	--

Sample: 02-FLSC-1st N-WC	Lab ID: 10539262002	Collected: 11/13/20 06:00	Received: 11/13/20 15:15	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

**200.8 MET ICPMS, DW**

Analytical Method: EPA 200.8  
Pace Analytical Services - Minneapolis

Lead	ND	ug/L	0.10	1		11/23/20 12:38	7439-92-1	
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Sample: 03-FLSC-1st N-BF	Lab ID: 10539262003	Collected: 11/13/20 06:00	Received: 11/13/20 15:15	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

**200.8 MET ICPMS, DW**

Analytical Method: EPA 200.8  
Pace Analytical Services - Minneapolis

Lead	ND	ug/L	0.10	1		11/23/20 12:41	7439-92-1	
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Sample: 04-FLSC-1st S-WC	Lab ID: 10539262004	Collected: 11/13/20 06:00	Received: 11/13/20 15:15	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

**200.8 MET ICPMS, DW**

Analytical Method: EPA 200.8  
Pace Analytical Services - Minneapolis

Lead	ND	ug/L	0.10	1		11/23/20 12:43	7439-92-1	
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Sample: 05-FLSC-1st S-WC	Lab ID: 10539262005	Collected: 11/13/20 06:00	Received: 11/13/20 15:15	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

**200.8 MET ICPMS, DW**

Analytical Method: EPA 200.8  
Pace Analytical Services - Minneapolis

Lead	ND	ug/L	0.10	1		11/23/20 12:45	7439-92-1	
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### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 20101- Forest Lake LIW  
Pace Project No.: 10539262

<b>Sample: 06-FLSC-1st S-BF</b>		<b>Lab ID: 10539262006</b>	Collected: 11/13/20 06:00	Received: 11/13/20 15:15	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

**200.8 MET ICPMS, DW**

Analytical Method: EPA 200.8  
Pace Analytical Services - Minneapolis

Lead	ND	ug/L	0.10	1		11/23/20 12:48	7439-92-1	
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<b>Sample: 07-FLSC-Concessions-SNK</b>		<b>Lab ID: 10539262007</b>	Collected: 11/13/20 06:00	Received: 11/13/20 15:15	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

**200.8 MET ICPMS, DW**

Analytical Method: EPA 200.8  
Pace Analytical Services - Minneapolis

Lead	2.5	ug/L	0.10	1		11/23/20 12:56	7439-92-1	
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<b>Sample: 08-FLSC-2nd N-WC</b>		<b>Lab ID: 10539262008</b>	Collected: 11/13/20 06:00	Received: 11/13/20 15:15	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

**200.8 MET ICPMS, DW**

Analytical Method: EPA 200.8  
Pace Analytical Services - Minneapolis

Lead	0.41	ug/L	0.10	1		11/23/20 12:59	7439-92-1	
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<b>Sample: 09-FLSC-2nd N-WC</b>		<b>Lab ID: 10539262009</b>	Collected: 11/13/20 06:00	Received: 11/13/20 15:15	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

**200.8 MET ICPMS, DW**

Analytical Method: EPA 200.8  
Pace Analytical Services - Minneapolis

Lead	0.61	ug/L	0.10	1		11/23/20 13:01	7439-92-1	
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<b>Sample: 10-FLSC-Concessions-SNK</b>		<b>Lab ID: 10539262010</b>	Collected: 11/13/20 06:00	Received: 11/13/20 15:15	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

**200.8 MET ICPMS, DW**

Analytical Method: EPA 200.8  
Pace Analytical Services - Minneapolis

Lead	1.5	ug/L	0.10	1		11/23/20 13:03	7439-92-1	
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### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 20101- Forest Lake LIW

Pace Project No.: 10539262

Sample: 11-FLSC-2nd S-WC	Lab ID: 10539262011	Collected: 11/13/20 06:00	Received: 11/13/20 15:15	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

**200.8 MET ICPMS, DW**

Analytical Method: EPA 200.8  
Pace Analytical Services - Minneapolis

Lead	<b>0.16</b>	ug/L	0.10	1		11/23/20 13:06	7439-92-1	
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Sample: 12-FLSC-2nd S-WC	Lab ID: 10539262012	Collected: 11/13/20 06:00	Received: 11/13/20 15:15	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

**200.8 MET ICPMS, DW**

Analytical Method: EPA 200.8  
Pace Analytical Services - Minneapolis

Lead	<b>0.20</b>	ug/L	0.10	1		11/23/20 13:08	7439-92-1	
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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 20101- Forest Lake LIW  
Pace Project No.: 10539262

QC Batch:	711181	Analysis Method:	EPA 200.8
QC Batch Method:	EPA 200.8	Analysis Description:	ICPMS Metals, Drinking Water
		Laboratory:	Pace Analytical Services - Minneapolis

Associated Lab Samples: 10539262001, 10539262002, 10539262003, 10539262004, 10539262005, 10539262006, 10539262007, 10539262008, 10539262009, 10539262010, 10539262011, 10539262012

METHOD BLANK: 3798073 Matrix: Water  
Associated Lab Samples: 10539262001, 10539262002, 10539262003, 10539262004, 10539262005, 10539262006, 10539262007, 10539262008, 10539262009, 10539262010, 10539262011, 10539262012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	0.10	11/23/20 12:10	

LABORATORY CONTROL SAMPLE: 3798074

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	100	109	109	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3804887 3804888

Parameter	Units	10539263001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	ug/L	9.5	100	100	114	118	104	108	70-130	3	20	

MATRIX SPIKE SAMPLE: 3804889

Parameter	Units	10539262006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L		ND	100	104	104	70-130

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: 20101- Forest Lake LIW

Pace Project No.: 10539262

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 20101- Forest Lake LIW

Pace Project No.: 10539262

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10539262001	01-FLSC-1st N-WC	EPA 200.8	711181		
10539262002	02-FLSC-1st N-WC	EPA 200.8	711181		
10539262003	03-FLSC-1st N-BF	EPA 200.8	711181		
10539262004	04-FLSC-1st S-WC	EPA 200.8	711181		
10539262005	05-FLSC-1st S-WC	EPA 200.8	711181		
10539262006	06-FLSC-1st S-BF	EPA 200.8	711181		
10539262007	07-FLSC-Concessions-SNK	EPA 200.8	711181		
10539262008	08-FLSC-2nd N-WC	EPA 200.8	711181		
10539262009	09-FLSC-2nd N-WC	EPA 200.8	711181		
10539262010	10-FLSC-Concessions-SNK	EPA 200.8	711181		
10539262011	11-FLSC-2nd S-WC	EPA 200.8	711181		
10539262012	12-FLSC-2nd S-WC	EPA 200.8	711181		

### REPORT OF LABORATORY ANALYSIS

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# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.



Page: 1 of 1  
**2265989**

**Section A**  
 Required Client Information:  
 Company: ENVIRONMENTAL CONSULTANTS  
 Address: 8612 SAGE CREEK HWY  
 Email To: Max.Wor@FieldConsultingInc.com  
 Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
 Requested Due Date/TAT: \_\_\_\_\_

**Section B**  
 Required Project Information:  
 Report To: Amy Murray  
 Copy To: \_\_\_\_\_  
 Purchase Order No.: \_\_\_\_\_  
 Project Name: \_\_\_\_\_  
 Project Number: 2001-FOREST LAKE C1W

**Section C**  
 Invoice Information:  
 Attention: \_\_\_\_\_  
 Company Name: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Pace Quote Reference: \_\_\_\_\_  
 Pace Project Manager: \_\_\_\_\_  
 Pace Profile #: \_\_\_\_\_

**REGULATORY AGENCY**  
 NPDES  GROUND WATER  DRINKING WATER  
 UST  RCRA  OTHER \_\_\_\_\_  
 Site Location: MW  
 STATE: \_\_\_\_\_

ITEM #	SAMPLE ID (A-Z, 0-9 / - / .)	Matrix Codes MATRIX / CODE	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Y/N	Requested Analysis Filtered (Y/N)	Pace Project No. / Lab I.D.
			COMPOSITE START	COMPOSITE END/GRAB						
1	01-FLSC-1 <sup>st</sup> N-WC	DW Water								001
2	02-FLSC-1 <sup>st</sup> N-WC	WT Waste Water								002
3	03-FLSC-1 <sup>st</sup> N-BF	P Product								003
4	04-FLSC-1 <sup>st</sup> S-WC	SL Soil/Solid								004
5	05-FLSC-1 <sup>st</sup> S-WC	OL Oil								005
6	06-FLSC-1 <sup>st</sup> S-DF	WP Wipe								006
7	07-FLSC-CONCESSIONS-SWK	AR Air								007
8	08-FLSC-2 <sup>nd</sup> N-WC	TS Tissue								008
9	09-FLSC-2 <sup>nd</sup> N-WC	OT Other								009
10	10-FLSC-CONCESSIONS-SWK									010
11	11-FLSC-2 <sup>nd</sup> S-WC									011
12	12-FLSC-2 <sup>nd</sup> S-WC									012

**NO#: 10539262**

10539262

**ADDITIONAL COMMENTS**  
 PARKER-Phase Fec  
 11/13/00 6:32am  
 14/13/00 15:15  
 TUBE PASS

**ACCEPTED BY / AFFILIATION**  
 DATE  
 TIME

**RELINQUISHED BY / AFFILIATION**  
 DATE  
 TIME

**SAMPLER NAME AND SIGNATURE**  
 PRINT Name of SAMPLER: PARKER-Phase  
 SIGNATURE of SAMPLER: [Signature]  
 DATE Signed (MM/DD/YY): 11/13/00

**Temp In °C**  
 Received on Ice (Y/N)  
 Custody Sealed Cooler (Y/N)  
 Samples Intact (Y/N)

**Sample Condition Upon Receipt**      **Client Name:** Field Environmental      **Project #:** \_\_\_\_\_

**Courier:**       Fed Ex     UPS     USPS     Client  
 Pace     Speedee     Commercial

**Tracking Number:** \_\_\_\_\_      See Exceptions   
ENV-FRM-MIN4-0142

**WO# : 10539262**

**PM: JDD**      **Due Date: 12/01/20**

**CLIENT: FIELD ENV**

**Custody Seal on Cooler/Box Present?**  Yes  No      **Seals Intact?**  Yes  No      **Biological Tissue Frozen?**  Yes  No  N/A

**Packing Material:**  Bubble Wrap     Bubble Bags     None     Other: \_\_\_\_\_      **Temp Blank?**  Yes  No

**Thermometer:**  T1(0461)     T2(1336)     T3(0459)  
 T4(0254)     T5(0489)      **Type of Ice:**  Wet     Blue     None     Dry     Melted

**Did Samples Originate in West Virginia?**  Yes  No      **Were All Container Temps Taken?**  Yes  No  N/A

Temp should be above freezing to 6°C      **Cooler Temp Read w/temp blank:** \_\_\_\_\_ °C      **Average Corrected Temp (no temp blank only):** 19.0 °C

**Correction Factor:** \_\_\_\_\_      **Cooler Temp Corrected w/temp blank:** \_\_\_\_\_ °C       See Exceptions ENV-FRM-MIN4-0142  
 1 Container

**USDA Regulated Soil:**  N/A, water sample/Other: \_\_\_\_\_      **Date/Initials of Person Examining Contents:** TMC 11-13-20

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)?  Yes  No      Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)?  Yes  No

**If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.**

		COMMENTS:
Chain of Custody Present and Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	4.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5. <input type="checkbox"/> Fecal Coliform <input type="checkbox"/> HPC <input type="checkbox"/> Total Coliform/E coli <input type="checkbox"/> BOD/cBOD <input type="checkbox"/> Hex Chrome <input type="checkbox"/> Turbidity <input type="checkbox"/> Nitrate <input type="checkbox"/> Nitrite <input type="checkbox"/> Orthophos <input type="checkbox"/> Other
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	7.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
Field Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10. Is sediment visible in the dissolved container? <input type="checkbox"/> Yes <input type="checkbox"/> No
Is sufficient information available to reconcile the samples to the COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	11. If no, write ID/ Date/Time on Container Below:      See Exception <input type="checkbox"/> ENV-FRM-MIN4-0142
Matrix: <input checked="" type="checkbox"/> Water <input type="checkbox"/> Soil <input type="checkbox"/> Oil <input type="checkbox"/> Other		
All containers needing acid/base preservation have been checked?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12. Sample # <u>1-12:1</u> <input type="checkbox"/> NaOH <input checked="" type="checkbox"/> HNO <sub>3</sub> <input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> Zinc Acetate
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , <2pH, NaOH >9 Sulfide, NaOH >10 Cyanide)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Positive for Res. <input type="checkbox"/> Yes <input type="checkbox"/> No      See Exception <input type="checkbox"/> Chlorine? <input type="checkbox"/> No      pH Paper Lot# ENV-FRM-MIN4-0142
		Res. Chlorine    0-6 Roll    0-6 Strip    0-14 Strip <u>221419</u>
Extra labels present on soil VOA or WIDRO containers?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.      See Exception <input type="checkbox"/> ENV-FRM-MIN4-0140
Headspace in VOA Vials (greater than 6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Pace Trip Blank Lot # (if purchased):

**CLIENT NOTIFICATION/RESOLUTION**      **Field Data Required?**  Yes  No

Person Contacted: \_\_\_\_\_      Date/Time: \_\_\_\_\_

Comments/Resolution: \_\_\_\_\_

**Project Manager Review:** \_\_\_\_\_      **Date:** 11/16/20

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers).







Office: 337-237-7123  
 P.O. Box 2003  
 Lafayette, LA 70502

Fax: 337-237-8712  
 2202 I-49 N. Service Rd.  
 Opelousas, La. 70570

**CERTIFICATE OF ANALYSIS**

This "Certificate of Analysis" represents a precleaned product that has been prepared in accordance with Performance-Based specifications. This product meets or exceeds analyte specifications established in the U. S. EPA OSWER Directive 9240.0-05A "Specification and Guidance for Contaminant-free Sample Containers" for use in Superfund and other Hazardous waste programs.

**Group 2 Containers for Inorganics**

<u>Analyte</u>	<u>RL ug/L</u>	<u>Analyte</u>	<u>RL ug/L</u>	<u>Analyte</u>	<u>RL ug/L</u>
Aluminum	20 U	Copper	1 U	Potassium	100 U
Antimony	0.5 U	Iron	50 U	Selenium	0.5 U
Arsenic	0.5 U	Lead	0.1 U	Silicon	50 U
Barium	0.3 U	Lithium	0.5 U	Silver	0.5 U
Beryllium	0.2 U	Magnesium	10 U	Sodium	50 U
Bismuth	0.5 U	Manganese	0.5 U	Strontium	0.5 U
Boron	10 U	Mercury	0.2 U	Thallium	0.1 U
Cadmium	0.08 U	Molybdenum	0.5 U	Tin	0.5 U
Calcium	40 U	Nickel	0.5 U	Titanium	1 U
Chromium	0.5 U	Palladium	0.5 U	Vanadium	1 U
Cobalt	0.5 U	Platinum	0.5 U	Zinc	5 U

<u>Analyte</u>	<u>RL mg/L</u>	<u>Analyte</u>	<u>RL mg/L</u>	<u>Analyte</u>	<u>RL mg/L</u>
Alkalinity	5.0 U	Chloride	0.5 U	Cyanide	0.02 U
Fluoride	0.1 U	Sulfide	0.05 U	Sulfate	0.5 U

**NOTES:**

- a. Reporting Limit (RL) = The lowest concentration standard analyzed which can be verified.
- b. U = The analyte was analyzed for but not detected above the Reporting Limit.

This "Certificate of Analysis" is provided for your records and is used to facilitate any required correspondences as needed.

Each container contains: 2.5 mL Nitric Acid (<20%)

Barcoded: Yes

Stirbars: No

Tared Weight: No

Part Number: LPV008220602P01

Date Product Prepared: 10/16/2020

Item Description: 250cc Natural Oblong Leakproof WM w/  
45PP Cap

Lot Number: 101220-2EIZ

Chemical Lot No.: 1119120

Protocol: A Level: 1

Chemical Expiry Date: 1/7/2022

Group: 2 (applies)

Chief Executive Officer