



Environmental Works, Inc.

November 17, 2023 (Amended December 10, 2024)

Healthy Drinking Water Unit
Missouri Department of Health and Senior Services
P.O. Box 570
Jefferson City, MO 65102

**RE: Lead in Drinking Water Report
Frontier Schools – FSI Central Office
6800 Corporate Drive, Kansas City, Missouri 64120**

Dear Healthy Drinking Water Unit, Parents and Teachers:

Environmental Works, Inc. (EWI), on behalf of Frontier Schools (Frontier), has prepared this Lead in Drinking Water Report for Frontier School of Innovation (FSI) Central Office located at 6800 Corporate Drive in Kansas City, Missouri. This report summarizes the lead in drinking water sampling and testing performed during the August 2023 – July 2024 reporting year and retesting during the August 2024 – July 2025 school year. Sampling and testing was performed to satisfy the requirement of “Get the Lead Out of School Drinking Water Act”, Revised Statutes of Missouri (RSMo) Chapter 160 Section 077 (160.077).

Background

RSMo 160.077 requires schools to conduct an inventory, prepare a sampling and testing plan, perform sampling, and complete a remediation plan (final report) of all water outlets used for drinking water and water dispensed for cooking and cleaning of eating and cooking utensils.

The Environmental Protection Agencies (EPA) lead drinking water standard limit is fifteen (15) micrograms per liter (ug/L) or parts per billion (ppb); however, RSMo 160.077 requires that all Missouri schools achieve a five (5) ug/L limit of lead in water. General information on the health effects of lead contamination and additional informational resources for employees and parents of children at each school will be provided upon request using the contact information in **Attachment A**.

Procedures for inventorying and sampling drinking water outlets (DWOs) were conducted under guidance from the Missouri Department of Health and Senior Services (MDHSS) in accordance with the RSMo 160.077 and the EPA 3T’s guidance for Reducing Lead in Drinking Water. Potential DWOs were identified by Frontier Schools based on the age and instructional capabilities of students, date of building construction, outlet condition, and utilization of building facilities. The building diagram(s) are attached as **Figure 1** and **2** and the outlets identified in the inventory are listed in **Table 1**.

Initial Sampling and Testing

On September 13, 2023 and November 7, 2024, EWI collected a total of 16 “first draw” samples from DWOs identified in the inventory including two additional DWOs that were installed after September 2023. Samples were taken after a stagnation period of 8 to 18 hours from the first water received when outlets were turned on. First draw samples were labeled, managed under a chain of custody (COC), and sent to Pace Analytical Services (Pace), a certified Missouri Drinking Water laboratory, for analysis of

lead by Method 200.8. Frontier Central was occupied by students and staff prior to the initial sampling; therefore, flushing of water outlets was not necessary. Results of the initial sampling are summarized in **Table 1**, with the laboratory analytical report provided as **Attachment B** and photo documentation as **Attachment C**.

The initial sampling results indicated concentrations of lead above the Missouri Lead in Drinking Water limit of 5 ug/L and EPA drinking water standard of 15 ug/L in one (1) outlet. The remaining 15 lead results were below the Missouri Lead in Drinking Water limit and/or the laboratory detection limit (<1.0 ug/L).

Subsequent Sampling and Testing

After remedial activities outlined in the next section were conducted, subsequent sampling was performed. On November 7, 2024, one (1) “first draw” sample was collected from the remediated outlet (outlet ID 7). Results of the subsequent sampling are summarized in **Table 1**, with the laboratory analytical report provided as **Attachment B**. The remediated outlet sample was below the Missouri schools limit of 5 ug/L and/or not detected (<1.0 ug/L).

Remedial Action Plan and Implementation

The Frontier Schools District conducted remedial action to address lead over 5 ug/L from the one outlet which tested above the Missouri Lead in Drinking Water limit. Remediation activities included removal and replacement of the faucet. The remediated outlet was flushed for at least 10 minutes and allowed a stagnation period of 8 to 18 hours prior to subsequent sampling.

Limitations

This report was prepared based on information obtained during site visits and provided by Frontier Schools. The conclusions and recommendations of this report are professional opinions based solely upon those observations and interpretations of sampling techniques and sample analysis as described in our report. The data collected during the limited visual inspection, interview period, and short-term water collection event only allows us to determine if the results correspond to the characteristics of a building or facility at the time of the survey. A list of outlets that were non-operational and/or not included in the sampling plan established by Frontier Schools are listed at the bottom of **Table 1**.

Summary & Recommendations

The September 2023 and November 2024 sampling results indicate all outlets utilized within the Frontier Central Office building are non-detectible or below the 5 ug/L (ppb) limit for Missouri Lead in Drinking Water. Routine testing may be required on a 5-year basis consistent with the Get the Lead Out of School Drinking Water Act. However, routine cleaning with follow-up flushing or replacement of aerators is recommended.

Frontier Schools have satisfied the RSMo 160.077 requirements to complete an outlet inventory, sampling and testing, and remediation of drinking water outlets in their school building. If you have any questions or need any additional information regarding this project, please contact EWI at 816-285-8410.

Sincerely,
ENVIRONMENTAL WORKS, INC.



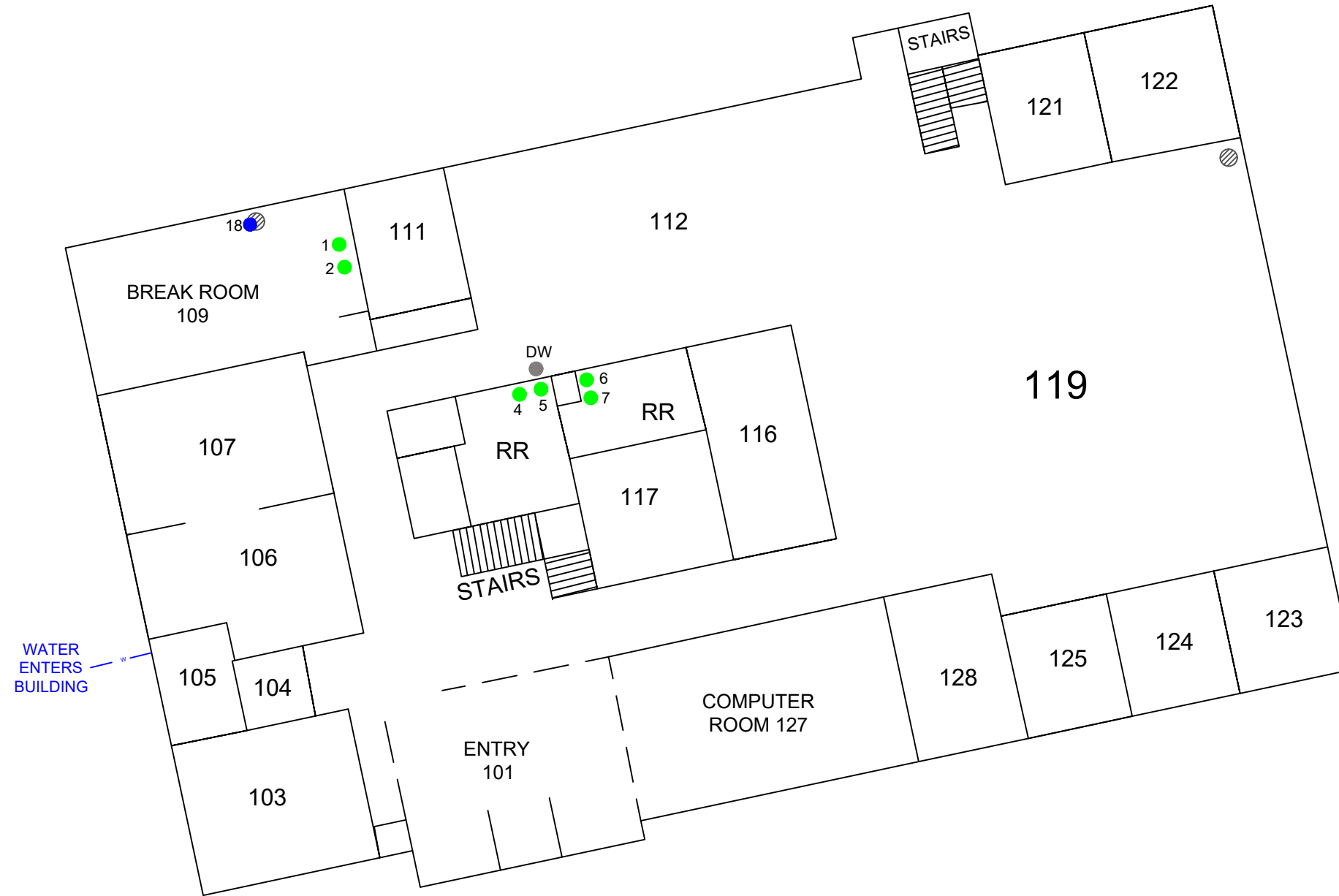
Rachel Dercher
Senior Project Manager

cc: Matthew Mercer, Frontier Schools (electronic)

Attachments:

- Figure 1 – Building Diagram (First Floor)
- Figure 2 – Building Diagram (Second Floor)
- Table 1 – Summary of Outlet Water Analytical Results
- Attachment A – School Contact Information
- Attachment B – Laboratory Analytical Report
- Attachment C – Photo Documentation

FIRST FLOOR



LEGEND

APPROXIMATE OUTLET LOCATIONS:

- OUTLET (FAUCET)
- OUTLET (DRINKING WATER)
- NON-OPERATIONAL OUTLET
- X JANITORS FAUCET

- BF BATHROOM FAUCET
- CF CLASSROOM FAUCET
- SF SHOWER FAUCET
- DW DRINKING WATER
- RR RESTROOM
- SERVICED BY WATER DISTRIBUTOR (NOT SAMPLED)



CHECKED BY:
R. DERCHER
E.W.I. # 233451.01
DRAWN BY: TW
Nov. 13, 2023

NOT TO SCALE

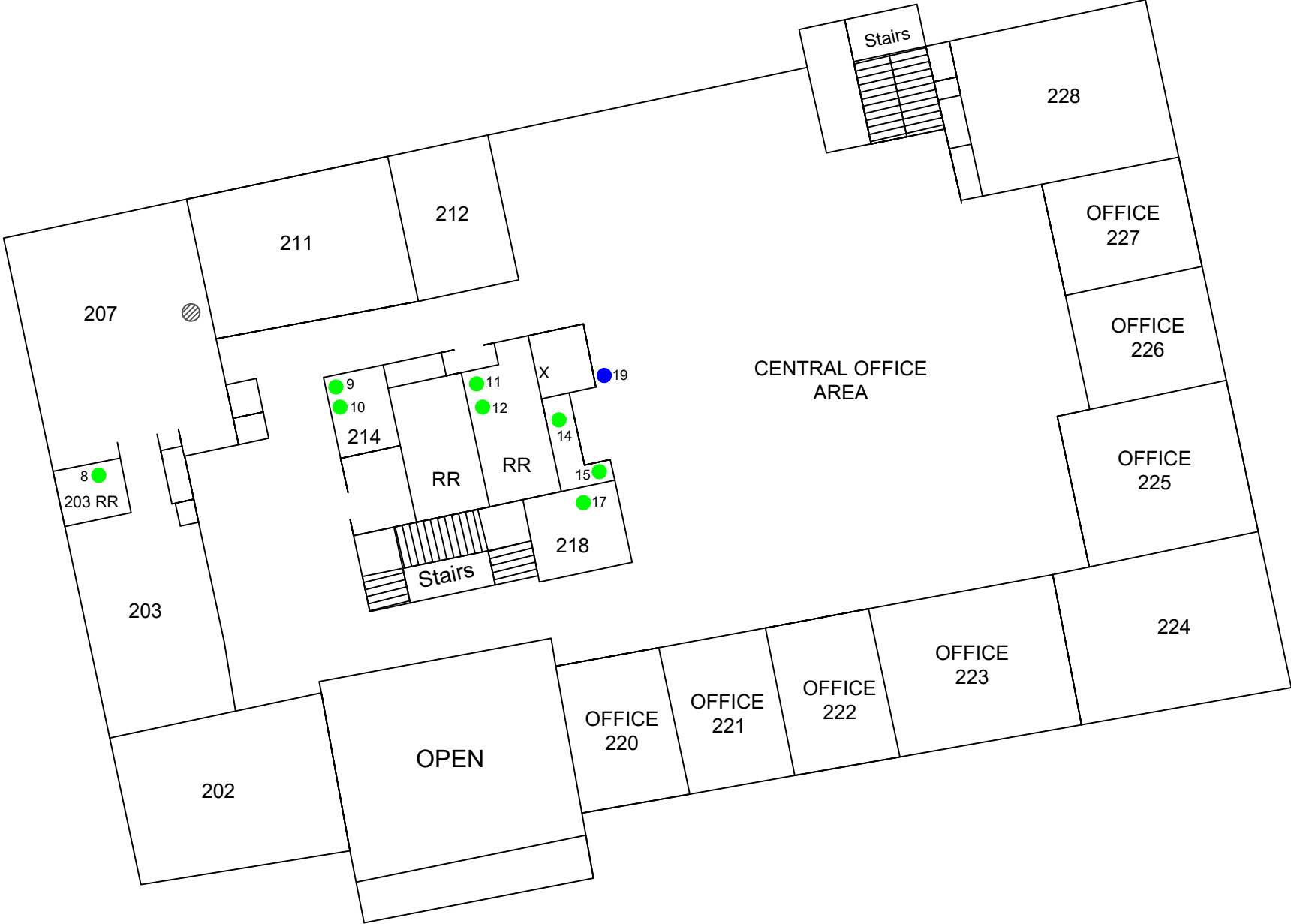


Kansas City Office Location:
1731 Locust Street
Kansas City, MO 64108
Phone: (417) 890-9500

**BUILDING DIAGRAM
(FIRST FLOOR)**
FRONTIER SCHOOLS CENTRAL OFFICE
6800 CORPORATE DRIVE
KANSAS CITY, JACKSON COUNTY, MISSOURI

FIGURE
1

SECOND FLOOR



LEGEND

APPROXIMATE OUTLET LOCATIONS:	
● OUTLET (FAUCET)	BF BATHROOM FAUCET
● OUTLET (DRINKING WATER)	CF CLASSROOM FAUCET
● NON-OPERATIONAL OUTLET	SF SHOWER FAUCET
X JANITORS FAUCET	DW DRINKING WATER
	RR RESTROOM
	⊗ SERVICED BY WATER DISTRIBUTOR (NOT SAMPLED)



CHECKED BY:
R. DERCHER
E.W.I. # 233451.01
DRAWN BY: TW
Nov. 13, 2023

NOT TO SCALE



Kansas City Office Location:
1731 Locust Street
Kansas City, MO 64108
Phone: (417) 890-9500

**BUILDING DIAGRAM
2ND FLOOR**
FRONTIER SCHOOLS CENTRAL OFFICE
6800 CORPORATE DRIVE
KANSAS CITY, JACKSON COUNTY, MISSOURI

FIGURE
2

TABLE 1
Summary of Outlet Water Analytical Results
Frontier School District: Central Office

Map ID	Program Sample ID	Outlet Type	Location <i>(hall, room #, etc.)</i>	Sample Type	Initial Sample Date	Lead Results	Remedial Activity	Sample Type	Subsequent Sample Program ID	Subsequent Sample Date	Lead Results
	Format <i>(Bldg-floor-Rm-Outlet-Type-Sample Number)</i>					200.8 Method ug/L (ppb)					200.8 Method ug/L (ppb)
1	01-01-109-KF-P-1	Faucet	Rm. 109, kitchen	First Draw	9/13/2023	<1.0	N/A				
2	01-01-109-CW-P-2	Dishwasher, cleaning water	Rm. 109, kitchen	First Draw	9/13/2023	1.0	N/A				
4	01-01-112-BF-P-4	Faucet 1, Bathroom	Rm. 112, bathroom, W	First Draw	9/13/2023	3.2	N/A				
5	01-01-112-BF-P-5	Faucet 2, Bathroom	Rm. 112, bathroom, E	First Draw	9/13/2023	<1.0	N/A				
6	01-01-112-BF-P-6	Faucet 1, Bathroom	Rm. 112, bathroom, N	First Draw	9/13/2023	1.9	N/A				
7	01-01-112-BF-P-7	Faucet 2, Bathroom	Rm. 112, bathroom, S	First Draw	9/13/2023	15.7	Faucet Replaced	First Draw	01-01-112-BF-S-7	11/7/2024	<1.0
8	01-02-203-BF-P-8	Faucet, Bathroom	Rm. 203, single bathroom	First Draw	9/13/2023	2.1	N/A				
9	01-02-213-BF-P-9	Faucet 1, Bathroom	Rm. 213, bathroom, N	First Draw	9/13/2023	<1.0	N/A				
10	01-02-213-BF-P-10	Faucet 2, Bathroom	Rm. 213, bathroom, S	First Draw	9/13/2023	2.1	N/A				
11	01-02-216-BF-P-11	Faucet 1, Bathroom	Rm. 216, bathroom, N	First Draw	9/13/2023	<1.0	N/A				
12	01-02-216-BF-P-12	Faucet 2, Bathroom	Rm. 216, bathroom, S	First Draw	9/13/2023	<1.0	N/A				
14	01-02-219-KF-P-14	Faucet	Rm. 219, kitchen	First Draw	9/13/2023	<1.0	N/A				
15	01-02-219-DW-P-15	Refrigerator Water	Rm. 219, kitchen	First Draw	9/13/2023	<1.0	N/A				
17	01-02-218-BF-P-17	Faucet, Bathroom	Rm. 218, single bathroom	First Draw	9/13/2023	<1.0	N/A				
18	01-01-109-DW-P-18	New Water Dispenser Added	Rm. 109, kitchen	First Draw	11/7/2024	<1.0	N/A				
19	01-02-219-DW-P-19	New Water Dispenser Added	Rm. 219, kitchen	First Draw	11/7/2024	<1.0	N/A				
16	Total Building Outlets										

Notes:

- Blue Shading indicates outlets with concentrations at or above the Missouri Get the Lead Out of schools lead limit (5ppb)
- Gray Shading indicates not applicable (NA) or no sample collected
- < indicates concentrations below the laboratory reporting limits
- All samples analyzed by Method 200.8 for Drinking Water
- Bold text indicates detectable concentrations above the laboratory reporting limit
- Exceedances of Missouri Lead Out Limit (5 ppb) as defined in the RSMo 160.077 indicate outlets that require remediation for use as drinking water
- Sample IDs follow the EPA 3Ts Guidance; "P" indicates first draw, "F" indicates flush draw, "S" indicates retest of first draw; BF - Bathroom Faucet, CF - Classroom Faucet, KF - Kitchen Faucet, CW - Cleaning Water (Dishwasher), DW - Drinking Water (Fountains), NF or NS - Nurse's Sink

Outlets where water was not collected during sampling include the following:

Outlet Type	Location	Note
Water Cooler (Filtered Jugs)	1st Floor, Rm. 109, kitchen	No direct water source from building; Filtered water maintained by service contract
Water Cooler (Filtered Jugs)	1st Floor, Rm. 119, Office Space	
Water Fountain (Cooler)	1st Floor, Rm. 112, Tech Classroom, location 3	Fountain turned off for removal

ATTACHMENT A
School Contact Information

School District and Contact Information

School Name: Frontier Central Office
School District: Frontier School District
Building ID: 01
School Type: Charter
School Address: 6800 Corporate Dr.
 Kansas City, Jackson County, Missouri 64120
Phone: (816) 683-8323 (O) and (816) 241-6201 (F)
Email: mvural@frontierschools.org
Contact: Matthew Mercer
 Maintenance Manager
 (816) 683-8323 (O)

School	Level	Grade	Address
Frontier Central Office	Administrative; Limited	Limited 4th – 12th	6800 Corporate Dr. Kansas City, MO 64120

ATTACHMENT B
Laboratory Analytical Report



Pace Analytical Services, LLC

2231 W. Altorfer Drive

Peoria, IL 61615

(800)752-6651

October 09, 2023

Rachel L. Dercher, RG
Environmental Works, Inc.
1731 Locust Street
Kansas City, MO 64108

RE: Frontier Central Office-233451.01

Dear Rachel L. Dercher, RG:

Please find enclosed the analytical results for the **14** sample(s) the laboratory received on **9/15/23 4:23 pm** and logged in under work order **GI02722**. All testing is performed according to our current TNI accreditations unless otherwise noted. This report cannot be reproduced, except in full, without the written permission of Pace Analytical Services, LLC.

If you have any questions regarding your report, please contact your project manager. Quality and timely data is of the utmost importance to us.

Pace Analytical Services appreciates the opportunity to provide you with analytical expertise. We are always trying to improve our customer service and we welcome you to contact the General Manager, Lisa Grant, with any feedback you have about your experience with our laboratory at 309-683-1764 or lisa.grant@pacelabs.com.

A handwritten signature in black ink, appearing to read "Chenise Lambert-Sykes".

Chenise Lambert-Sykes
Project Manager
(314)432-0550
Chenise.Lambert-Sykes@pacelabs.com



SAMPLE RECEIPT CHECK LIST

Items not applicable will be marked as in compliance

Work Order GI02722

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
YES	Zero headspace, <6 mm present in VOA vials
NO	Trip blank(s) received
YES	All non-field analyses received within holding times
YES	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



Pace Analytical Services, LLC
2231 W. Altorfer Drive
Peoria, IL 61615
(800)752-6651

Case Narrative

The drinking water lead analysis was performed at Pace-Ormond Beach, FL. Please refer to the subcontract section of the report for details.



ANALYTICAL RESULTS

**Sample:
Name:**

**Sampled:
Received:**

Reg ID:

PO #:

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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NOTES

Specifications regarding method revisions, method modifications, and calculations used for analysis are available upon request. Please contact your project manager.

* Not a TNI accredited analyte

Certifications

CHI - McHenry, IL - 4314-A W. Crystal Lake Road, McHenry, IL 60050

TNI Accreditation for Drinking Water and Wastewater Fields of Testing through IL EPA Accreditation No. 100279

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory Registry No. 17556

PIA - Peoria, IL - 2231 W. Altorfer Drive, Peoria, IL 61615

TNI Accreditation for Drinking Water, Wastewater, Solid and Hazardous Material Fields of Testing through IL EPA Accreditation No. 100230

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory Registry No. 17553

Drinking Water Certifications/Accreditations: Iowa (240); Kansas (E-10338); Missouri (870)

Wastewater Certifications/Accreditations: Arkansas (88-0677); Iowa (240); Kansas (E-10338)

Solid and Hazardous Material Certifications/Accreditations: Arkansas (88-0677); Iowa (240); Kansas (E-10338)

SPMO - Springfield, MO - 1805 W Sunset Street, Springfield, MO 65807

USEPA DMR-QA Program

STL - Hazelwood, MO - 944 Anglum Rd, Hazelwood, MO 63042

TNI Accreditation for Wastewater, Solid and Hazardous Material Fields of Testing through KS KDHE Certification No. E-10389

TNI Accreditation for Wastewater, Solid and Hazardous Material Fields of Testing through IL EPA Accreditation No. - 200080

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory, Registry No. 171050

Missouri Department of Natural Resources - Certificate of Approval for Microbiological Laboratory Service - No. 1050



Certified by: Chenise Lambert-Sykes, Project Manager



September 26, 2023

Chenise Lambert-Sykes
Pace Analytical Services, Inc - IL/MO
944 Anglum Road
Hazelwood, MO 63042

RE: Project: G102722 Frontier Central Offic
Pace Project No.: 35829434

Dear Chenise Lambert-Sykes:

Enclosed are the analytical results for sample(s) received by the laboratory on September 15, 2023. 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 - Ormond Beach

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

Sincerely,

Brad Smith
brad.smith@pacelabs.com
(386) 672-5668
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: GI02722 Frontier Central Offic

Pace Project No.: 35829434

Pace Analytical Services Ormond Beach

8 East Tower Circle, Ormond Beach, FL 32174

Alaska DEC- CS/UST/LUST

Alabama Certification #: 41320

Colorado Certification: FL NELAC Reciprocity

Connecticut Certification #: PH-0216

Delaware Certification: FL NELAC Reciprocity

DoD-ANAB #:ADE-3199

Florida Certification #: E83079

Georgia Certification #: 955

Guam Certification: FL NELAC Reciprocity

Hawaii Certification: FL NELAC Reciprocity

Illinois Certification #: 200068

Indiana Certification: FL NELAC Reciprocity

Kansas Certification #: E-10383

Kentucky Certification #: 90050

Louisiana Certification #: FL NELAC Reciprocity

Louisiana Environmental Certificate #: 05007

Maine Certification #: FL01264

Maryland Certification: #346

Massachusetts Certification #: M-FL1264

Michigan Certification #: 9911

Mississippi Certification: FL NELAC Reciprocity

Missouri Certification #: 236

Montana Certification #: Cert 0074

Nebraska Certification: NE-OS-28-14

New Hampshire Certification #: 2958

New Jersey Certification #: FL022

New York Certification #: 11608

North Carolina Environmental Certificate #: 667

North Carolina Certification #: 12710

North Dakota Certification #: R-216

Ohio DEP 87780

Oklahoma Certification #: D9947

Pennsylvania Certification #: 68-00547

Puerto Rico Certification #: FL01264

South Carolina Certification: #96042001

Tennessee Certification #: TN02974

Texas Certification: FL NELAC Reciprocity

US Virgin Islands Certification: FL NELAC Reciprocity

Virginia Environmental Certification #: 460165

West Virginia Certification #: 9962C

Wisconsin Certification #: 399079670

Wyoming (EPA Region 8): FL NELAC Reciprocity

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SAMPLE ANALYTE COUNT

Project: GI02722 Frontier Central Offic

Pace Project No.: 35829434

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35829434001	01-01-109-CW-P-2	EPA 200.8	EAP	1	PASI-O
35829434002	01-01-109-KF-P-1	EPA 200.8	EAP	1	PASI-O
35829434003	01-01-112-BF-P-4	EPA 200.8	EAP	1	PASI-O
35829434004	01-01-112-BF-P-5	EPA 200.8	EAP	1	PASI-O
35829434005	01-01-112-BF-P-6	EPA 200.8	EAP	1	PASI-O
35829434006	01-01-112-BF-P-7	EPA 200.8	EAP	1	PASI-O
35829434007	01-02-203-BF-P-8	EPA 200.8	EAP	1	PASI-O
35829434008	01-02-213-BF-P-10	EPA 200.8	EAP	1	PASI-O
35829434009	01-02-213-BF-P-9	EPA 200.8	EAP	1	PASI-O
35829434010	01-02-216-BF-P-11	EPA 200.8	EAP	1	PASI-O
35829434011	01-02-216-BF-P-12	EPA 200.8	EAP	1	PASI-O
35829434012	01-02-218-BF-P-17	EPA 200.8	EAP	1	PASI-O
35829434013	01-02-219-DW-P-15	EPA 200.8	EAP	1	PASI-O
35829434014	01-02-219-KF-P-14	EPA 200.8	EAP	1	PASI-O

PASI-O = Pace Analytical Services - Ormond Beach

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ANALYTICAL RESULTS

Project: GI02722 Frontier Central Offic

Pace Project No.: 35829434

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Sample: 01-01-109-CW-P-2								
Lab ID: 35829434001								
Collected: 09/13/23 05:55 Received: 09/15/23 10:30 Matrix: Drinking Water								
200.8 MET ICPMS Drinking Water								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Ormond Beach								
Lead	1.0	ug/L	1.0	1	09/25/23 04:31	09/25/23 16:27	7439-92-1	

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ANALYTICAL RESULTS

Project: GI02722 Frontier Central Offic

Pace Project No.: 35829434

Sample: 01-01-109-KF-P-1	Lab ID: 35829434002	Collected: 09/13/23 05:46	Received: 09/15/23 10:30	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Method: EPA 200.8 Pace Analytical Services - Ormond Beach							
Lead	ND	ug/L	1.0	1		09/23/23 14:29	7439-92-1	

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ANALYTICAL RESULTS

Project: GI02722 Frontier Central Offic

Pace Project No.: 35829434

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Sample: 01-01-112-BF-P-4								
Lab ID: 35829434003								
Collected: 09/13/23 05:53								
Received: 09/15/23 10:30								
Matrix: Drinking Water								
200.8 MET ICPMS Drinking Water								
Analytical Method: EPA 200.8								
Pace Analytical Services - Ormond Beach								
Lead	3.2	ug/L	1.0	1		09/23/23 14:31	7439-92-1	

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ANALYTICAL RESULTS

Project: GI02722 Frontier Central Offic

Pace Project No.: 35829434

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Sample: 01-01-112-BF-P-5								
Lab ID: 35829434004								
Collected: 09/13/23 05:53								
Received: 09/15/23 10:30								
Matrix: Drinking Water								
200.8 MET ICPMS Drinking Water								
Analytical Method: EPA 200.8								
Pace Analytical Services - Ormond Beach								
Lead	ND	ug/L	1.0	1		09/23/23 14:32	7439-92-1	

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ANALYTICAL RESULTS

Project: GI02722 Frontier Central Offic

Pace Project No.: 35829434

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Sample: 01-01-112-BF-P-6								
Lab ID: 35829434005								
Collected: 09/13/23 05:56								
Received: 09/15/23 10:30								
Matrix: Drinking Water								
200.8 MET ICPMS Drinking Water								
Analytical Method: EPA 200.8								
Pace Analytical Services - Ormond Beach								
Lead	1.9	ug/L	1.0	1		09/23/23 14:36	7439-92-1	

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ANALYTICAL RESULTS

Project: GI02722 Frontier Central Offic

Pace Project No.: 35829434

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Sample: 01-01-112-BF-P-7								
Lab ID: 35829434006								
Collected: 09/13/23 05:57								
Received: 09/15/23 10:30								
Matrix: Drinking Water								
200.8 MET ICPMS Drinking Water								
Analytical Method: EPA 200.8								
Pace Analytical Services - Ormond Beach								
Lead	15.7	ug/L	1.0	1		09/23/23 14:38	7439-92-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GI02722 Frontier Central Offic

Pace Project No.: 35829434

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Sample: 01-02-203-BF-P-8								
Lab ID: 35829434007								
Collected: 09/13/23 06:04								
Received: 09/15/23 10:30								
Matrix: Drinking Water								
200.8 MET ICPMS Drinking Water								
Analytical Method: EPA 200.8								
Pace Analytical Services - Ormond Beach								
Lead	2.1	ug/L	1.0	1		09/23/23 14:39	7439-92-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GI02722 Frontier Central Offic

Pace Project No.: 35829434

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Sample: 01-02-213-BF-P-10								
Lab ID: 35829434008								
Collected: 09/13/23 06:09 Received: 09/15/23 10:30 Matrix: Drinking Water								
200.8 MET ICPMS Drinking Water								
Analytical Method: EPA 200.8								
Pace Analytical Services - Ormond Beach								
Lead	2.1	ug/L	1.0	1		09/23/23 14:41	7439-92-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GI02722 Frontier Central Offic

Pace Project No.: 35829434

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Sample: 01-02-213-BF-P-9								
Lab ID: 35829434009								
Collected: 09/13/23 06:09								
Received: 09/15/23 10:30								
Matrix: Drinking Water								
200.8 MET ICPMS Drinking Water								
Analytical Method: EPA 200.8								
Pace Analytical Services - Ormond Beach								
Lead	ND	ug/L	1.0	1		09/23/23 14:42	7439-92-1	

REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.



ANALYTICAL RESULTS

Project: GI02722 Frontier Central Offic

Pace Project No.: 35829434

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Sample: 01-02-216-BF-P-11								
Lab ID: 35829434010								
Collected: 09/13/23 06:12 Received: 09/15/23 10:30 Matrix: Drinking Water								
200.8 MET ICPMS Drinking Water								
Analytical Method: EPA 200.8								
Pace Analytical Services - Ormond Beach								
Lead	ND	ug/L	1.0	1		09/23/23 14:44	7439-92-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GI02722 Frontier Central Offic

Pace Project No.: 35829434

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Sample: 01-02-216-BF-P-12								
Lab ID: 35829434011								
Collected: 09/13/23 06:12								
Received: 09/15/23 10:30								
Matrix: Drinking Water								
200.8 MET ICPMS Drinking Water								
Analytical Method: EPA 200.8								
Pace Analytical Services - Ormond Beach								
Lead	ND	ug/L	1.0	1		09/23/23 14:45	7439-92-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GI02722 Frontier Central Offic

Pace Project No.: 35829434

Sample: 01-02-218-BF-P-17	Lab ID: 35829434012	Collected: 09/13/23 06:20	Received: 09/15/23 10:30	Matrix: Drinking Water					
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.8 MET ICPMS Drinking Water	Analytical Method: EPA 200.8 Pace Analytical Services - Ormond Beach								
Lead	ND	ug/L	1.0	1		09/23/23 14:46	7439-92-1		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GI02722 Frontier Central Offic

Pace Project No.: 35829434

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Sample: 01-02-219-DW-P-15								
Lab ID: 35829434013								
Collected: 09/13/23 06:18								
Received: 09/15/23 10:30								
Matrix: Drinking Water								
200.8 MET ICPMS Drinking Water								
Analytical Method: EPA 200.8								
Pace Analytical Services - Ormond Beach								
Lead	ND	ug/L	1.0	1		09/23/23 14:48	7439-92-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GI02722 Frontier Central Offic

Pace Project No.: 35829434

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Sample: 01-02-219-KF-P-14								
Lab ID: 35829434014								
Collected: 09/13/23 06:16								
Received: 09/15/23 10:30								
Matrix: Drinking Water								
200.8 MET ICPMS Drinking Water								
Analytical Method: EPA 200.8								
Pace Analytical Services - Ormond Beach								
Lead	ND	ug/L	1.0	1		09/23/23 14:49	7439-92-1	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: GI02722 Frontier Central Offic

Pace Project No.: 35829434

QC Batch:	952232	Analysis Method:	EPA 200.8
QC Batch Method:	EPA 200.8	Analysis Description:	200.8 MET No Prep Drinking Water
		Laboratory:	Pace Analytical Services - Ormond Beach
Associated Lab Samples:	35829434002, 35829434003, 35829434004, 35829434005, 35829434006, 35829434007, 35829434008, 35829434009, 35829434010, 35829434011, 35829434012, 35829434013, 35829434014		

METHOD BLANK:	5236259	Matrix:	Water
Associated Lab Samples:	35829434002, 35829434003, 35829434004, 35829434005, 35829434006, 35829434007, 35829434008, 35829434009, 35829434010, 35829434011, 35829434012, 35829434013, 35829434014		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	1.0	09/23/23 14:56	

LABORATORY CONTROL SAMPLE: 5236260						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	50	47.1	94	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5236255											5236256	
Parameter	Units	35827885038 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual	
Lead	ug/L	0.0023 mg/L	50	50	51.4	51.0	98	97	70-130	1		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5236257											5236258	
Parameter	Units	35829434014 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual	
Lead	ug/L	ND	50	50	46.4	48.7	93	97	70-130	5		

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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QUALITY CONTROL DATA

Project: GI02722 Frontier Central Offic

Pace Project No.: 35829434

QC Batch:	952431	Analysis Method:	EPA 200.8
QC Batch Method:	EPA 200.8	Analysis Description:	200.8 MET Drinking Water
		Laboratory:	Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35829434001

METHOD BLANK:	5236954	Matrix:	Water
Associated Lab Samples:	35829434001		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	1.0	09/25/23 16:21	

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	50	45.8	92	85-115	

Parameter	Units	5236956		5236957		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					
Lead	ug/L	1.0	50	50	44.9	44.8	88	88	70-130	0

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: GI02722 Frontier Central Offic

Pace Project No.: 35829434

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

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.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

U Compound was analyzed for but not detected.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: GI02722 Frontier Central Offic

Pace Project No.: 35829434

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35829434001	01-01-109-CW-P-2	EPA 200.8	952431	EPA 200.8	952519
35829434002	01-01-109-KF-P-1	EPA 200.8	952232		
35829434003	01-01-112-BF-P-4	EPA 200.8	952232		
35829434004	01-01-112-BF-P-5	EPA 200.8	952232		
35829434005	01-01-112-BF-P-6	EPA 200.8	952232		
35829434006	01-01-112-BF-P-7	EPA 200.8	952232		
35829434007	01-02-203-BF-P-8	EPA 200.8	952232		
35829434008	01-02-213-BF-P-10	EPA 200.8	952232		
35829434009	01-02-213-BF-P-9	EPA 200.8	952232		
35829434010	01-02-216-BF-P-11	EPA 200.8	952232		
35829434011	01-02-216-BF-P-12	EPA 200.8	952232		
35829434012	01-02-218-BF-P-17	EPA 200.8	952232		
35829434013	01-02-219-DW-P-15	EPA 200.8	952232		
35829434014	01-02-219-KF-P-14	EPA 200.8	952232		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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WO#: 35829434



Date of Origin: MO
 Part Needed: YES NO



Workorder: G102722
 Report To: Chenise Lambert-Sykes
 Pace Analytical Ormand Beach
 8 East Tower Circle
 Ormond Beach, FL 32174
 386-672-5668

Frontier Central Office
 233451.01-Drinking

Owner Received
 Date: 9/14/2023
 Results Requested
 By: 9/27/2023

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers	DW Lead (Pb)	Turb Check	Requested Analysis	LAB USE ONLY
1	01-01-109-CW-P-2	Grab	9/13/2023 0555	G102722-01	DW		X	X		
2	01-01-109-KF-P-1	Grab	9/13/2023 0546	G102722-02	DW		X	X		
3	01-01-112-BF-P-4	Grab	9/13/2023 0553	G102722-03	DW		X	X		
4	01-01-112-BF-P-5	Grab	9/13/2023 0553	G102722-04	DW		X	X		
5	01-01-112-BF-P-6	Grab	9/13/2023 0556	G102722-05	DW		X	X		
6	01-01-112-BF-P-7	Grab	9/13/2023 0557	G102722-06	DW		X	X		
7	01-02-203-BF-P-8	Grab	9/13/2023 0604	G102722-07	DW		X	X		
8	01-02-213-BF-P-10	Grab	9/13/2023 0609	G102722-08	DW		X	X		
9	01-02-213-BF-P-9	Grab	9/13/2023 0609	G102722-09	DW		X	X		
10	01-02-216-BF-P-11	Grab	9/13/2023 0612	G102722-10	DW		X	X		
Transfers Released By		Date/Time		Received By		Date/Time		Comments		
1										
2										
3										

Cooler Temperature on Receipt: 20.2 °C
 Custody Seal: Y or N
 Received on Ice: Y or N
 Sample Intact: Y or N

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.
 This chain of custody is considered complete as is since this information is available in the owner laboratory.

Internal Transfer Chain of Custody



State of Origin: MO
 Cert. Needed: YES NO

Frontier Central Office
 Workorder Name: 233451.01-Drinking Date: 9/14/2023 Results Requested By: 9/27/2023

Workorder: G102722

Report To: Subcontract To:

Chenise Lambert-Sykes
 Pace Hazelwood
 944 Anglum Road
 Hazelwood, MO 63042
 Phone 800.333.3278

Pace Analytical Ormand Beach
 8 East Tower Circle
 Ormond Beach, FL 32174
 386-672-5668

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers		Date/Time	Received By	Date/Time	Comments
						DW Lead (Pb)	Turb Check				
1	01-02-216-BF-P-12	Grab	9/13/2023 0612	G102722-11	DW	X	X	9/15/23 1330	AS/pape		
2	01-02-218-BF-P-17	Grab	9/13/2023 0620	G102722-12	DW	X	X				
3	01-02-219-DW-P-15	Grab	9/13/2023 0618	G102722-13	DW	X	X				
4	01-02-219-KF-P-14	Grab	9/13/2023 0616	G102722-14	DW	X	X				
5											
6											
7											
8											
9											
10											

Cooler Temperature on Receipt 20.7 °C Custody Seal Y or N Received on Ice Y or N Sample Intact Y or N

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document. This chain of custody is considered complete as is since this information is available in the owner laboratory.

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY - Affix Workorder/Login Label Here

Scan QR Code for instructions

Pace * Location Requested (City/State):
 Pace Analytical Kansas
 9608 Loiret Blvd., Lenexa, KS 66219

Company Name: ENVIRONMENTAL WORKS
 Street Address: 1731 LOCUST ST, Kansas City, MO 64108
 Customer Project #: 233451.01 Frontier Central Office
 Project Name: 233451.01 Frontier Central Office
 Site Collection Info/Facility ID (as applicable):
 Invoice To: Frontier Schools
 Invoice E-Mail:
 Contact/Report To: Dercher, Rachel
 Phone #: (816)285-8426
 E-Mail: rdercher@environmentalworks.com
 Cc E-Mail:
 Purchase Order # (if applicable):
 Quote #:

County / State orig n of sample(s): Missouri
 Regulatory Program (DW, RCRA, etc.) as applicable:
 Rush (Pre-approval required):
 [] 2 Day [] 3 day [] 5 day [] Other: **Get the Lead Out**
 DW PWSID # or WW Permit # as applicable:
 Field Filtered (if applicable): [] Yes [x] No
 Date Results Requested: **09/27/2023**
 Analysts:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SD), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Collected (or Composite Start)		Composite End		Res. CLZ	Number & Type of Containers		2008 Lead	Preservation non-conformance identified for
		Date	Time	Date	Time		Plastic	Glass		
01-01-112-BF-P-5	DW	9/13/2023	0553				1		X	
01-01-112-BF-P-6	DW		0556				1		X	
01-01-112-BF-P-7	DW		0557				1		X	
01-01-112-DW-P-2	DW								X	
01-02-203-BF-P-8	DW	9/13/2023	0604				1		X	
01-02-213-BF-P-10	DW		0609				1		X	
01-02-213-BF-P-9	DW		0609				1		X	
01-02-216-BF-P-11	DW		0612				1		X	
01-02-216-BF-P-12	DW		0612				1		X	
01-02-217-DW-P-12	DW								X	

Additional Instructions from Pace*:
 # Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C)
 Date/Time: 9-13/10:31
 Date/Time: 9/15/23 10:30
 Date/Time:
 Date/Time:
 Tracking Number:
 Delivered by: [] In-Person [] Courier
 [] FedEx [] UPS [] Other
 Page: 2 of 3

Collected By: Rachel Dercher
 Printed Name:
 Signature: *Rachel Dercher*
 Received by/Company (Signature): *Rachel Dercher*
 Received by/Company (Signature): *Esper*
 Received by/Company (Signature):
 Received by/Company (Signature):
 Date/Time: 9/13/23
 Date/Time:
 Date/Time:
 Date/Time:

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY - Affix Workorder/Login Label Here

Pace* Location Requested (City/State):
 Pace Analytical Kansas:
 9608 Loiret Blvd., Lenexa, KS 66219

Company Name: ENVIRONMENTAL WORKS
 Street Address: 1731 LOCUST ST, Kansas City, MO 64108

Customer Project #: 233451.01 Frontier Central Office
 Project Name: 233451.01 Frontier Schools

Contact/Report To: Dercher, Rachel
 Phone #: (816)285-8426
 E-Mail: rdercher@environmentalworks.com
 Cc E-Mail:

Invoice To: Frontier Schools
 Invoice E-Mail:

Time Zone Collected: [] AK [] PT [] MT [] CT [] ET [] ST
 Data Deliverables:
 Level II [] Level III [] Level IV
 EQUIS [] Other

Site Collection Info/Facility ID (as applicable):
 Purchase Order # (if applicable):
 Quote #:

Regulatory Program (DW, RCRA, etc.) as applicable: Missouri
 County / State origin of sample(s): Missouri

Rush (Pre-approval required):
 2 Day [] 3 day [] 5 day [] Other

Date Results Requested: 09/27/2023
 Field Filtered (if applicable): [] Yes No
 Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SE), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected		Res. CLZ	Composite End Date	Time	Number & Type of Containers		200 ug Lead
			Date	Time				Plastic	Glass	
01-02-218-BF-P-17	DW	G	9/13/2023	0620				1		X
01-02-219-DW-P-15	DW	G	9/13/2023	0618				1		X
01-02-219-DW-P-10	DW	G								X
01-02-219-KF-P-14	DW	G	9/13/2023	0616				1		X
No Sample	DW	G								X

Additional Instructions from Pace*:

Collected By: Rachel Dercher
 Printed Name: Rachel Dercher
 Signature: *Rachel Dercher*

Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C)

Tracking Number: 9-13/10:37
 Date/Time: 9/15/23 10:30
 Delivered by: [] In-Person [] Courier
 [] FedEx [] UPS [] Other

Page: 3 of 3



Scan QR Code for instructions

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other
 *** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Contact/Report To: Dercher, Rachel
 Phone #: (816)285-8426
 E-Mail: rdercher@environmentalworks.com
 Cc E-Mail:
 Invoice To: **Frontier Schools**
 Invoice E-Mail:
 Purchase Order # (if applicable):
 Quote #:

Country / State origin of sample(s): Missouri
 Regulatory Program (DW, RCRA, etc.) as applicable:
 Rush (Pre-approval required):
 DW PWSID # or WW Permit # as applicable:
 Field Filtered (if applicable): [] Yes [X] No
 Date Results Requested: **09/27/2023**
 Analytic:

Time Zone Collected: [] AK [] PT [] MT [] CT [] ET
 Data Deliverables:
 [X] Level II [] Level III [] Level IV
 [] EQUIS
 [] Other:
 * Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SE), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Collected		Composite End		Res. CLZ	Number & Type of Containers		200 & Lead	Sample Comment
		Date	Time	Date	Time		Plastic	Glass		
01-01-109-CW-P-2	DW								X	
01-01-109-KF-P-1	DW								X	
01-01-112-BF-P-4	DW								X	
01-01-109-CW-P-2	DW	9/13/2023	0555					1	X	
01-01-109-KF-P-1	DW	9/13/2023	0546					1	X	
01-01-112-BF-P-4	DW	9/13/2023	0553					1	X	

Additional Instructions from Pace*:
 # Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C)
 Date/Time: **9-13/10-31**
 Date/Time: **9/15/23 1030**
 Date/Time:
 Date/Time:
 Tracking Number:
 Delivered by: [] In-Person [] Courier
 [] FedEx [] UPS [] Other
 Page: **1** of **3**



Sample Condition Upon Receipt Form (SCUR)

WO#: 35829434

Project #
 Project Manager:
 Client:

PM: BTS Due Date: 09/27/23
 CLIENT: PACHAZ

Date and Initials of person:
 Examining contents: CRS
 Label: _____
 Deliver: _____
 pH: _____
 Initials: EAS1

Thermometer Used: T-409 Date: 9/15/23 Time: 1038

State of Origin: _____
 For WV projects, all containers verified to $\leq 6^{\circ}\text{C}$
 Cooler #1 Temp. $^{\circ}\text{C}$ 20.1 (Visual) +0.1 (Correction Factor) 20.2 (Actual)
 Cooler #2 Temp. $^{\circ}\text{C}$ _____ (Visual) _____ (Correction Factor) _____ (Actual)
 Cooler #3 Temp. $^{\circ}\text{C}$ _____ (Visual) _____ (Correction Factor) _____ (Actual)
 Cooler #4 Temp. $^{\circ}\text{C}$ _____ (Visual) _____ (Correction Factor) _____ (Actual)
 Cooler #5 Temp. $^{\circ}\text{C}$ _____ (Visual) _____ (Correction Factor) _____ (Actual)
 Cooler #6 Temp. $^{\circ}\text{C}$ _____ (Visual) _____ (Correction Factor) _____ (Actual)
 Recheck for OOT $^{\circ}\text{C}$ _____ (Visual) _____ (Correction Factor) _____ (Actual)

Samples on ice, cooling process has begun.
 Samples on ice, cooling process has begun.
 Samples on ice, cooling process has begun.
 Samples on ice, cooling process has begun.
 Samples on ice, cooling process has begun.
 Samples on ice, cooling process has begun.
 Time: _____ Initials: _____

Courier: Fed Ex UPS USPS Client Commercial Pace Other:
 Shipping Method: Standard Overnight First Overnight Priority Overnight Ground International Priority Other:
 Billing: Recipient Sender Third Party Credit Card Unknown Other:

Tracking # 632 6432 1392 1466

Custody Seal Present: Yes No Seal properly placed and intact: Yes No

Packing Material: Bubble Wrap Bubble Bags None Other:

Ice: Wet Blue Dry None Melted

Samples shorted to lab: Yes No (If yes, complete the following)

Shorted Date: _____

Shorted Time: _____

Bottle Quantity / Type: _____

Chain of Custody: Present: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Filled Out: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Relinquished From Pace: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Sampler Name: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A									
Relinquished To Pace: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Sampling Date(s): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Sampling Time(s): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A									
Samples Arrived within Hold Time.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A								
Rush Turnaround Requested on COC.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A								
Sufficient Volume	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A								
Correct Containers Used.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A								
Containers Intact.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A								
Sample Labels Match COC (Sample ID, Date/Time of Collection).	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A								
All containers needing acid / base preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A								
All containers needing preservation are found to be in compliance with EPA recommendation:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A								
<table border="1"> <thead> <tr> <th colspan="2">Preservation Information</th> </tr> </thead> <tbody> <tr> <td>Preservative: <u>HNO3</u></td> <td>Date: <u>9/15/23</u></td> </tr> <tr> <td>Lot / Trace: <u>3514736</u></td> <td>Time: <u>1417</u></td> </tr> <tr> <td>Amount added (mL): _____</td> <td>Initials: <u>JRS</u></td> </tr> </tbody> </table>		Preservation Information		Preservative: <u>HNO3</u>	Date: <u>9/15/23</u>	Lot / Trace: <u>3514736</u>	Time: <u>1417</u>	Amount added (mL): _____	Initials: <u>JRS</u>
Preservation Information									
Preservative: <u>HNO3</u>	Date: <u>9/15/23</u>								
Lot / Trace: <u>3514736</u>	Time: <u>1417</u>								
Amount added (mL): _____	Initials: <u>JRS</u>								
Headspace in Volatile Vials? (>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								

Comments / Resolutions (use back for additional comments):

Internal Transfer Chain of Custody



State of Origin: MO
 Cert. Needed: YES NO

Workorder: GI02722 **Workorder Name:** Frontier Central Office 233451.01-Drinking **Owner Received Date:** 9/14/2023 **Results Requested By:** 9/27/2023

Report To:	Subcontract To:	Requested Analysis																	
Chenise Lambert-Sykes Pace Hazelwood 944 Anglum Road Hazelwood, MO 63042 Phone 800.333.3278	Pace Analytical Ormand Beach 8 East Tower Circle Ormond Beach, FL 32174 386-672-5668																		

Item	Sample ID	Sample Type	Collect Date/Time		Lab ID	Matrix	Preserved Containers				DW Lead (Pb)	Turb Check	LAB USE ONLY												
1	01-01-109-CW-P-2	Grab	9/13/2023	0555	GI02722-01	DW					X	X													
2	01-01-109-KF-P-1	Grab	9/13/2023	0546	GI02722-02	DW					X	X													
3	01-01-112-BF-P-4	Grab	9/13/2023	0553	GI02722-03	DW					X	X													
4	01-01-112-BF-P-5	Grab	9/13/2023	0553	GI02722-04	DW					X	X													
5	01-01-112-BF-P-6	Grab	9/13/2023	0556	GI02722-05	DW					X	X													
6	01-01-112-BF-P-7	Grab	9/13/2023	0557	GI02722-06	DW					X	X													
7	01-02-203-BF-P-8	Grab	9/13/2023	0604	GI02722-07	DW					X	X													
8	01-02-213-BF-P-10	Grab	9/13/2023	0609	GI02722-08	DW					X	X													
9	01-02-213-BF-P-9	Grab	9/13/2023	0609	GI02722-09	DW					X	X													
10	01-02-216-BF-P-11	Grab	9/13/2023	0612	GI02722-10	DW					X	X													

Transfers	Released By	Date/Time	Received By	Date/Time	Comments
1					*SAMPLES UNPRESERVED AT COLLECTION 10 DAY TAT, Report to 1PPB, STD EXCEL EDD ENT SAMP. ID; Proj. Frontier Central Office 233451.01 PRO
2					
3					

Cooler Temperature on Receipt	°C	Custody Seal Y or N	Received on Ice Y or N	Sample Intact Y or N
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***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.
 This chain of custody is considered complete as is since this information is available in the owner laboratory.



State of Origin: MO
 Cert. Needed: YES NO

Workorder: GI02722
Workorder Name: Frontier Central Office 233451.01-Drinking **Owner Received Date:** 9/14/2023 **Results Requested By:** 9/27/2023

Report To: Chenise Lambert-Sykes Pace Hazelwood 944 Anglum Road Hazelwood, MO 63042 Phone 800.333.3278	Subcontract To: Pace Analytical Ormand Beach 8 East Tower Circle Ormond Beach, FL 32174 386-672-5668	Requested Analysis											
--	---	---------------------------	--	--	--	--	--	--	--	--	--	--	--

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers					DW Lead (Pb)	Turb Check	LAB USE ONLY																													
1	01-02-216-BF-P-12	Grab	9/13/2023 0612	GI02722-11	DW						X	X																														
2	01-02-218-BF-P-17	Grab	9/13/2023 0620	GI02722-12	DW						X	X																														
3	01-02-219-DW-P-15	Grab	9/13/2023 0618	GI02722-13	DW						X	X																														
4	01-02-219-KF-P-14	Grab	9/13/2023 0616	GI02722-14	DW						X	X																														
5																																										
6																																										
7																																										
8																																										
9																																										
10																																										

Transfers	Released By	Date/Time	Received By	Date/Time	Comments
1					*SAMPLES UNPRESERVED AT COLLECTION 10 DAY TAT, Report to 1PPB, STD EXCEL EDD ENT SAMP. ID; Proj. Frontier Central Office 233451.01 PRG
2					
3					

Cooler Temperature on Receipt	°C	Custody Seal Y or N	Received on Ice Y or N	Sample Intact Y or N
--------------------------------------	-----------	----------------------------	-------------------------------	-----------------------------

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.
 This chain of custody is considered complete as is since this information is available in the owner laboratory.



Pace Analytical Services, LLC

2231 W. Altorfer Drive

Peoria, IL 61615

(800)752-6651

November 23, 2024

Rachel L. Dercher
Environmental Works - Kansas City, MO
1731 Locust Street
Kansas City, MO 64108

RE: 233451.01_ Frontier Central Office - Drinking Water Lead

Dear Rachel L. Dercher:

Please find enclosed the analytical results for the **3** sample(s) the laboratory received on **11/8/24 2:30 pm** and logged in under work order **HK01793**. All testing is performed according to our current TNI accreditations unless otherwise noted. This report cannot be reproduced, except in full, without the written permission of Pace Analytical Services, LLC.

If you have any questions regarding your report, please contact your project manager. Quality and timely data is of the utmost importance to us.

Pace Analytical Services appreciates the opportunity to provide you with analytical expertise. We are always trying to improve our customer service and we welcome you to contact the General Manager, Lisa Grant, with any feedback you have about your experience with our laboratory at 309-683-1764 or lisa.grant@pacelabs.com.

A handwritten signature in black ink, appearing to read "Chenise Lambert-Sykes".

Chenise Lambert-Sykes
Project Manager
(314)432-0550
Chenise.Lambert-Sykes@pacelabs.com



SAMPLE RECEIPT CHECK LIST

Items not applicable will be marked as in compliance

Work Order HK01793

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
NO	Zero headspace, <6 mm present in VOA vials
NO	Trip blank(s) received
YES	All non-field analyses received within holding times
YES	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



ANALYTICAL RESULTS

Sample: HK01793-01
Name: 01-01-112-BF-S-7
Matrix: Drinking Water - Grab

Sampled: 11/07/24 04:50
Received: 11/08/24 14:30

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA									
Lead	< 1.00	ug/L		11/20/24 11:22	1	1.00	11/20/24 13:28	BRS	EPA 200.8 REV 5.4

Sample: HK01793-02
Name: 01-01-109-DW-P-18
Matrix: Drinking Water - Grab

Sampled: 11/07/24 04:48
Received: 11/08/24 14:30

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA									
Lead	< 1.00	ug/L		11/20/24 11:22	1	1.00	11/20/24 13:29	BRS	EPA 200.8 REV 5.4

Sample: HK01793-03
Name: 01-02-219-DW-P-19
Matrix: Drinking Water - Grab

Sampled: 11/07/24 04:52
Received: 11/08/24 14:30

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA									
Lead	< 1.00	ug/L		11/20/24 11:22	1	1.00	11/20/24 13:30	BRS	EPA 200.8 REV 5.4



NOTES

Specifications regarding method revisions, method modifications, and calculations used for analysis are available upon request. Please contact your project manager.

* Not a TNI accredited analyte

Certifications

CHI - McHenry, IL - 4314-A W. Crystal Lake Road, McHenry, IL 60050

TNI Accreditation for Drinking Water and Wastewater Fields of Testing through IL EPA Accreditation No. 100279

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory Registry No. 17556

PIA - Peoria, IL - 2231 W. Altorfer Drive, Peoria, IL 61615

TNI Accreditation for Drinking Water, Wastewater, Solid and Hazardous Material Fields of Testing through IL EPA Accreditation No. 100230

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory Registry No. 17553

Drinking Water Certifications/Accreditations: Iowa (240); Kansas (E-10338); Missouri (870)

Wastewater Certifications/Accreditations: Arkansas (88-0677); Iowa (240); Kansas (E-10338)

Solid and Hazardous Material Certifications/Accreditations: Arkansas (88-0677); Iowa (240); Kansas (E-10338)

SPMO - Springfield, MO - 1805 W Sunset Street, Springfield, MO 65807

USEPA DMR-QA Program

STL - Hazelwood, MO - 944 Anglum Rd, Hazelwood, MO 63042

TNI Accreditation for Wastewater, Solid and Hazardous Material Fields of Testing through KS KDHE Certification No. E-10389

TNI Accreditation for Wastewater, Solid and Hazardous Material Fields of Testing through IL EPA Accreditation No. - 200080

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory, Registry No. 171050

Missouri Department of Natural Resources - Certificate of Approval for Microbiological Laboratory Service - No. 1050



Certified by: Chenise Lambert-Sykes, Project Manager

H101743

Internal Transfer Chain of Custody



State of Origin: MO YES NO
Cert. Needed: YES NO

233451.01 Frontier

Workorder: GLOXXXX Central Office - Drinking Water Lead Owner Received Date: 11/7/2024 Results Requested By: 11/22/2024

Report To: Chenise Lambert-Sykes
Pace Hazelwood
944 Anglum Road
Hazelwood, MO 63042
Phone 800.333.3278

Workorder Name: Water Lead
Subcontract To: Pace Analytical Services-Peoria
2231 W Altorfer Drive
Peoria, IL 61615
800.752.6651

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers		Date/Time	Comments
						DW Lead (Pb)	Turb Check		
1	01-01-112-BF-S-7	Grab	11/7/2024	450	GLOXXX-01	DW	X	X	
2	01-01-109-DW-P-18	Grab	11/7/2024	448	GLOXXX-02	DW	X	X	
3	01-02-219-DW-P-19	Grab	11/7/2024	452	GLOXXX-03	DW	X	X	
4									
5									
6									
7									
8									
9									
10									

Transfers	Released By	Date/Time	Received By	Date/Time	Comments
1	<i>[Signature]</i>	11/07/2024	<i>[Signature]</i>	11-17-24	*SAMPLES UNPRESERVED AT COLLECTION
2	<i>[Signature]</i>		<i>[Signature]</i>	11/8/2024	
3	<i>[Signature]</i>	11/8/2024	<i>[Signature]</i>	11/8/2024	Report to 1PPB, EDD

Cooler Temperature on Receipt _____ °C Custody Seal Y or N _____ Received on Ice Y or N _____ Sample Intact Y or N _____

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document. This chain of custody is considered complete as is since this information is available in the owner laboratory.

ENV-FRM-PEOR-0098 v02_Sample Condition Upon Receipt



Client Name: EWI

Work Order #: 14101793

Completed by Initials/Date: ZC 11/8/21

Sample Intake Notes:

Custody Seal Present on Package(s) If yes, was seal intact	Yes <input checked="" type="radio"/> No <input type="radio"/>		
Samples received within temperature compliance	Yes <input type="radio"/> No <input checked="" type="radio"/> N/A <input type="radio"/>		
Was Project Manager contacted if samples were received out of temperature compliance	Yes <input type="radio"/> No <input type="radio"/>		
Chain of Custody Present	<input checked="" type="radio"/> Yes <input type="radio"/> No		
Current PACE CoC Submitted	<input checked="" type="radio"/> Yes <input type="radio"/> No		
Rush Turn Around Time Requested	<input type="radio"/> Yes <input checked="" type="radio"/> No		
CoC is Legible	<input checked="" type="radio"/> Yes <input type="radio"/> No		
Sampler Name Present	<input checked="" type="radio"/> Yes <input type="radio"/> No		
Sampler Signature Present	<input checked="" type="radio"/> Yes <input type="radio"/> No		
USDA Regulated Soil	Yes <input type="radio"/> No <input checked="" type="radio"/> N/A <input type="radio"/>		
Country of Origin	Yes <input type="radio"/> No <input type="radio"/>		
State of Origin	Yes <input type="radio"/> No <input type="radio"/>		
Unique Sample ID's Present on CoC (If not, Note Container ID's & Contact Project Manager)	<input checked="" type="radio"/> Yes <input type="radio"/> No		
Container(s) Received Intact (If not, Note & Contact Project Manager)	<input checked="" type="radio"/> Yes <input type="radio"/> No		
Containers Received Labeled	<input checked="" type="radio"/> Yes <input type="radio"/> No		
Container Labels are Legible	<input checked="" type="radio"/> Yes <input type="radio"/> No		
Sample Collection Date Present on CoC	<input checked="" type="radio"/> Yes <input type="radio"/> No		
Sample Collection Time Present on CoC	<input checked="" type="radio"/> Yes <input type="radio"/> No		
CoC Relinquished by Client	<input checked="" type="radio"/> Yes <input type="radio"/> No		
CoC and Sample Container Labels Match	<input checked="" type="radio"/> Yes <input type="radio"/> No		
Appropriate Bottles	<input checked="" type="radio"/> Yes <input type="radio"/> No		
Sufficient Sample Volume	<input checked="" type="radio"/> Yes <input type="radio"/> No		
Zero Headspace (<6 mm or no bubbles) present in VOA vials (If headspace is present, note sample ID and # of vials)	Yes <input type="radio"/> No <input checked="" type="radio"/> N/A <input type="radio"/>		
Trip Blank(s) Received If present, are they Listed on CoC	Yes <input type="radio"/> No <input checked="" type="radio"/> N/A <input type="radio"/>		
All (Non-Field) Analysis Received Within Hold Times	<input checked="" type="radio"/> Yes <input type="radio"/> No		
Short Hold Time Analysis Requested (48 Hours or Less)	Yes <input type="radio"/> No <input checked="" type="radio"/>		
Case Narrative Needed	Yes <input type="radio"/> No <input checked="" type="radio"/>		

Client Notification/Resolution:

If checked, please see attached form for additional comments

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

PM Review is documented electronically in LIMS. By releasing the project, the PM acknowledges they have reviewed the sample.

ATTACHMENT C
Photo Documentation

Water Outlet Photo Documentation

FSI Central Office
6800 Corporate Dr.,
Kansas City, Jackson County, Missouri 64120



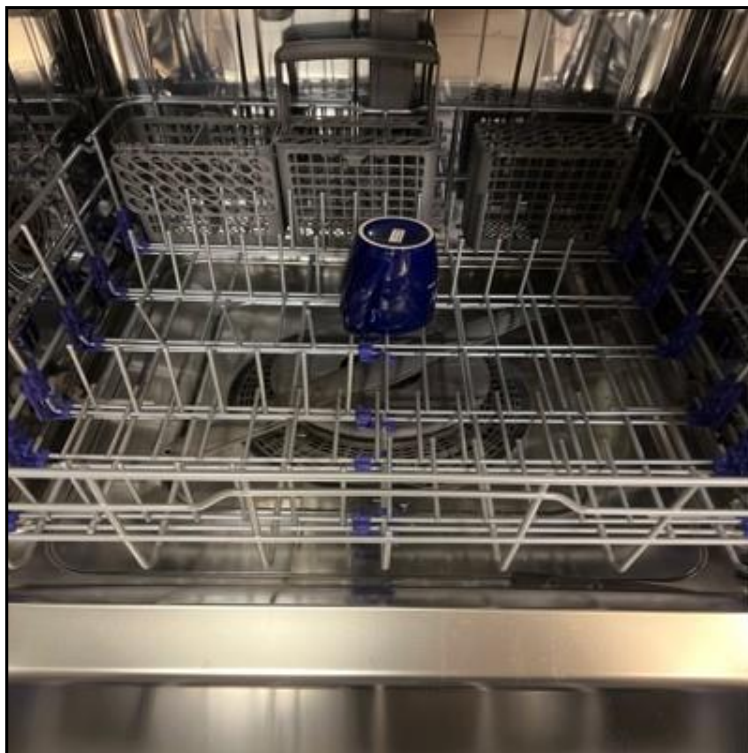
Prepared by
Environmental Works, Inc.
1731 Locust Street
Kansas City, MO 64108

Prepared for
Frontier Schools
6800 Corporate Drive
Kansas City, MO 64120

September 13, 2023 and November 7, 2024
Project # 233451.01



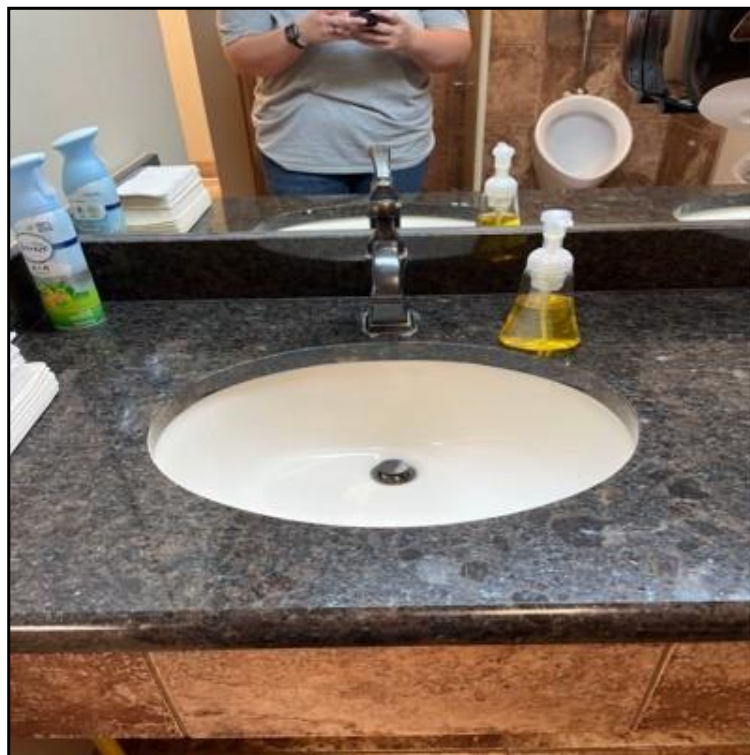
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01-01-109-CW-P-2



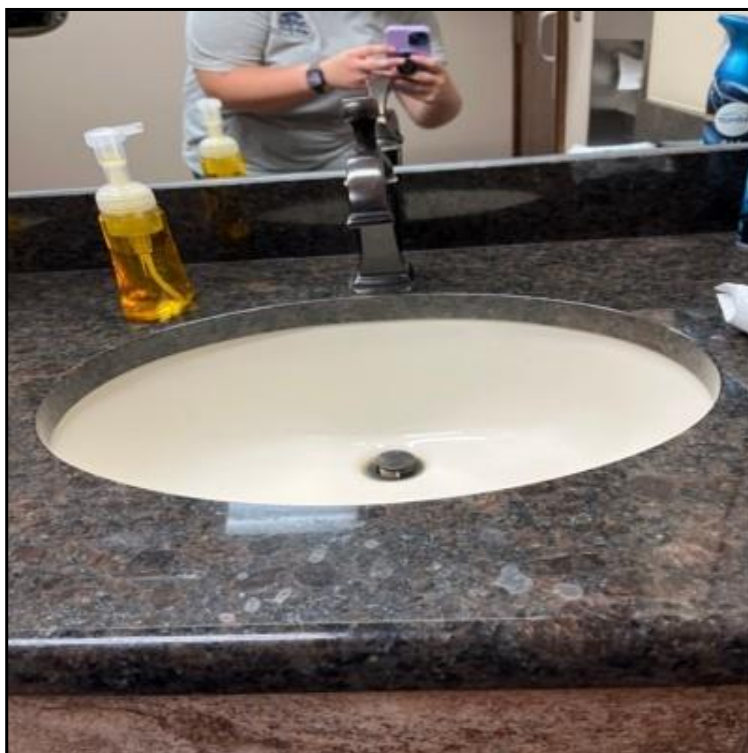
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01-01-112-BF-P-4



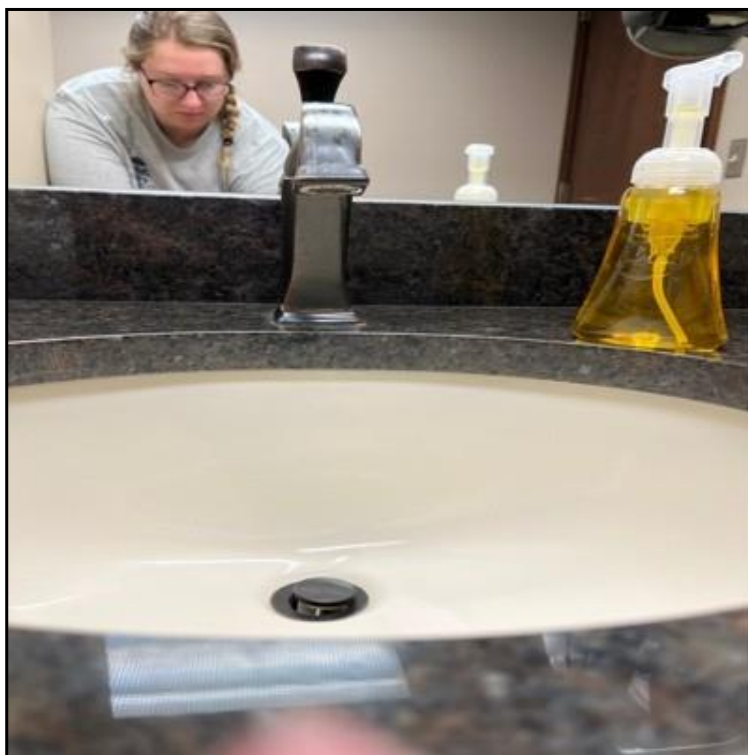
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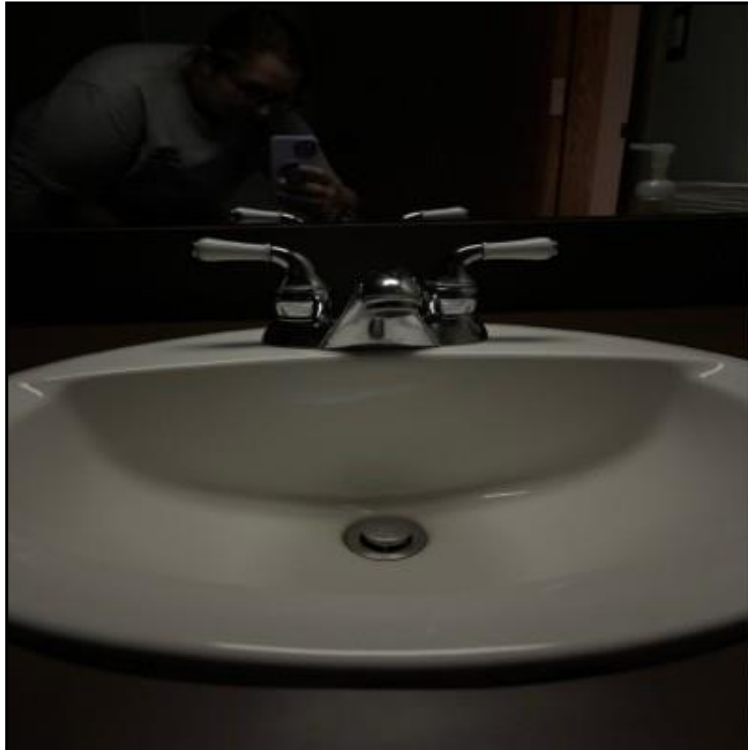
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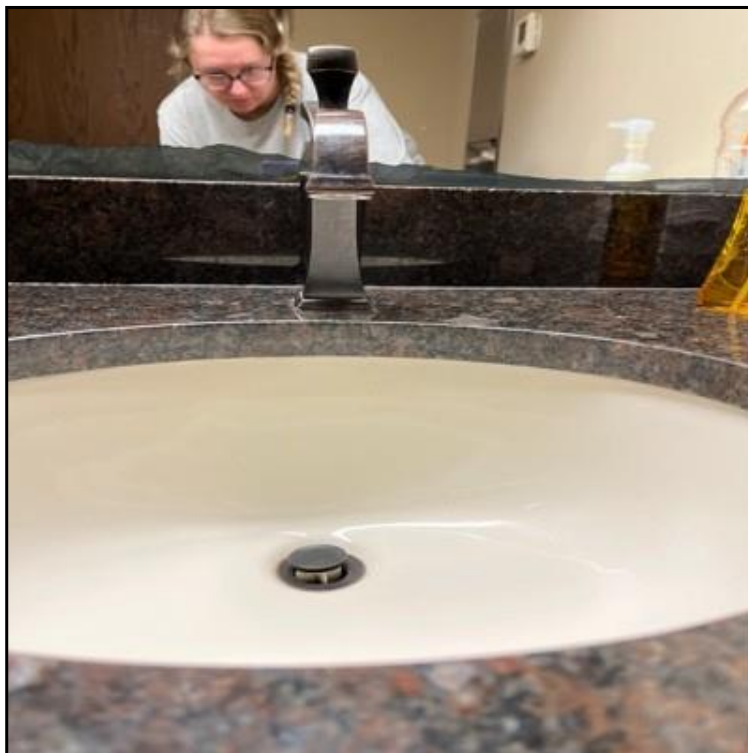
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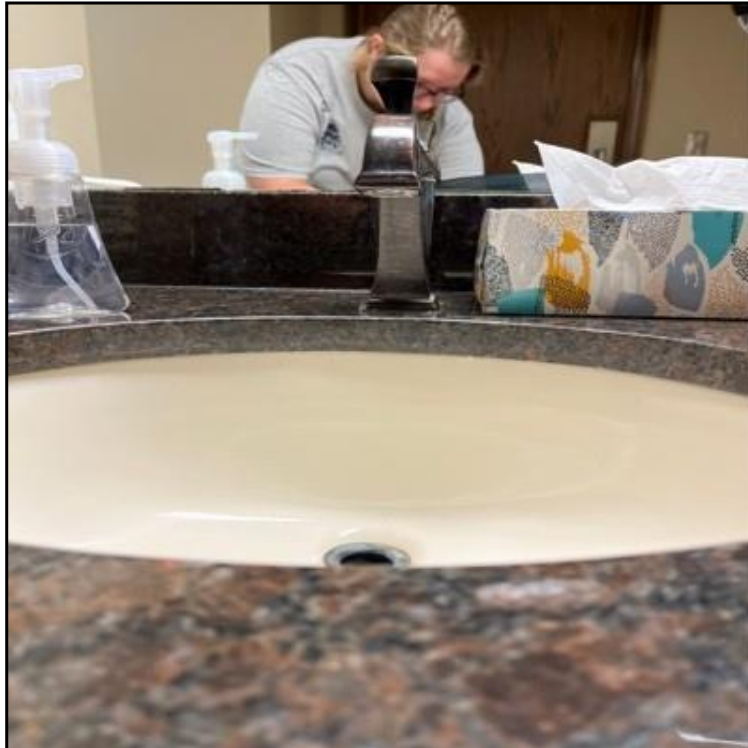
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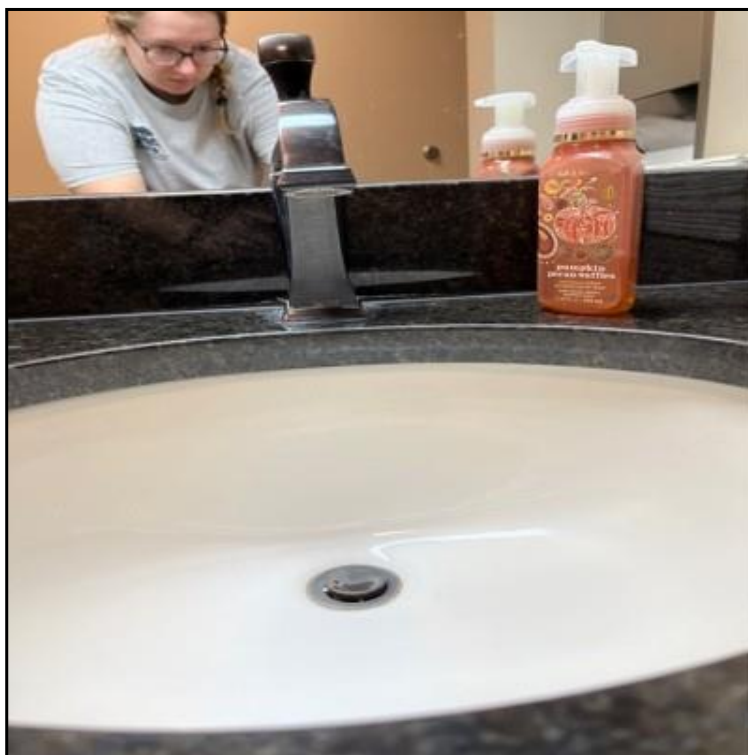
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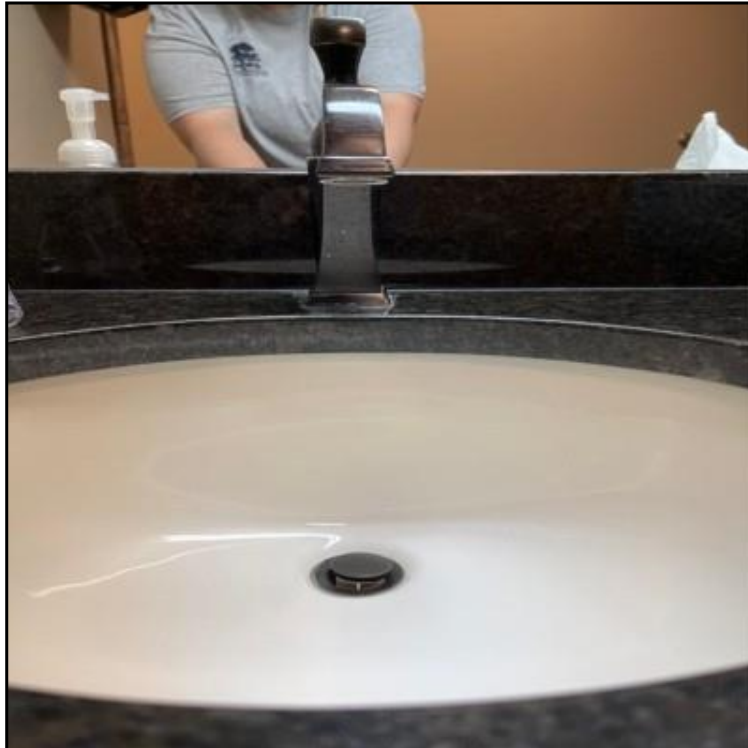
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01-02-213-BF-P-10



01-02-216-BF-P-11



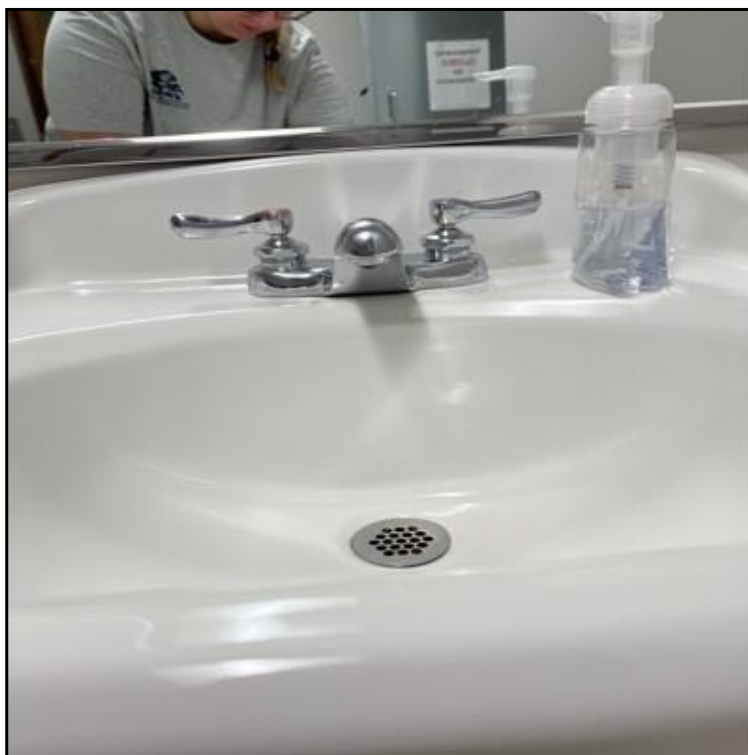
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01-02-219-KF-P-14



01-02-219-DW-P-15



01-02-218-BF-P-17



01-01-109-DW-P-18, New DWO



01-01-112-BF-P-7; Replaced faucet and resampled.



01-02-219-DW-P-19; New DWO