



CWM Environmental Cleveland, LLC
4450 Johnston Parkway - Unit B
Cleveland, OH 44128
TEL: (216) 663-0808
FAX: (216) 663-0656
Website: www.cwmenvironmental.com

1/25/2021

Eric Mailki
Freeport Area School District
PO Box C
Freeport, PA 16229

RE: Buffalo Elementary Legionella

Order No: 20L0365

Dear Eric Mailki,

CWM Environmental Cleveland, LLC. received sample(s) on 12/30/2020 for the analyses presented in the following report.

There were no problems with the analytical results associated with this report, unless otherwise noted in an attached Case Narrative. Quality Control data is within laboratory defined method(s) and specified acceptance limits, unless otherwise noted within the attached Case Narrative.

Solid Samples are reported in $\mu\text{g}/\text{Kg}$ or mg/Kg as received, unless specified in the units section of the report as dry weight, indicated as: $\mu\text{g}/\text{Kg-dry}$ or $\text{mg}/\text{Kg-dry}$.

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

Certifications:

1. Varies with analyst - Lab 4041
 2. NELAP - FLDOH Laboratory E871150
 3. 2019-2020 DMRQA Parameter
- VAP - Ohio EPA Voluntary Action Program LabID # CL107

Disclaimer: If no cert appears in the Cert column, no certification should be assumed. Subcontracted analytes ran under the associated laboratory scope of accreditation.

Sincerely,

A handwritten signature in blue ink that reads 'Theresa Ortiz'. The signature is written in a cursive, flowing style.

Theresa Ortiz, Customer Service Rep



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Analytical Report

WO#: 20L0365
Date Reported: 01/25/2021

[TOC_1]Case Narrative
Work Order[TOC]

Work Order Case Narrative

Amended Report. This version supersedes all prior versions.

Date: lmw

Initials: 1/25/2021

Comments: Hold time amended



CWM Environmental Cleveland, LLC.
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Analytical Report

WO#: 20L0365
 Date Reported: 01/25/2021

Client: Freeport Area School District
 Project: Buffalo Elementary Legionella
 Sample Number: 20L0365-01
Sample: Kitchen Hand Sink

Collection: 12/29/2020 10:00
 Matrix: Drinking Water

Cert	Analyte	Result	MDL	PQL	Units	DF	Qualifier	Method	Date Analyzed
Microbiology		Prep: IDEXX Legiolert				Analyst: RET			
2	Legionella pneumophila Group	<0.100	0.100	0.100	MPN/mL	1		IDEXX Legiolert	12/30/2020 13:00



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Analytical Report

WO#: 20L0365
 Date Reported: 01/25/2021

Client: Freeport Area School District
 Project: Buffalo Elementary Legionella
 Sample Number: 20L0365-02
Sample: Special Education Pod

Collection: 12/29/2020 10:03
 Matrix: Drinking Water

Cert	Analyte	Result	MDL	PQL	Units	DF	Qualifier	Method	Date Analyzed
Microbiology		Prep: IDEXX Legiolert				Analyst: RET			
2	Legionella pneumophila Group	<0.100	0.100	0.100	MPN/mL	1		IDEXX Legiolert	12/30/2020 13:00



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Analytical Report

WO#: 20L0365
 Date Reported: 01/25/2021

Client: Freeport Area School District
 Project: Buffalo Elementary Legionella
 Sample Number: 20L0365-03
Sample: 1st/2nd Grade Pod

Collection: 12/29/2020 10:06
 Matrix: Drinking Water

Cert	Analyte	Result	MDL	PQL	Units	DF	Qualifier	Method	Date Analyzed
Microbiology		Prep: IDEXX Legiolert				Analyst: RET			
2	Legionella pneumophila Group	<0.100	0.100	0.100	MPN/mL	1		IDEXX Legiolert	12/30/2020 13:00



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Analytical Report

WO#: 20L0365
 Date Reported: 01/25/2021

Client: Freeport Area School District
 Project: Buffalo Elementary Legionella
 Sample Number: 20L0365-04
Sample: 2nd/3rd Grade Pod

Collection: 12/29/2020 10:08
 Matrix: Drinking Water

Cert	Analyte	Result	MDL	PQL	Units	DF	Qualifier	Method	Date Analyzed
Microbiology		Prep: IDEXX Legiolert				Analyst: RET			
2	Legionella pneumophila Group	<0.100	0.100	0.100	MPN/mL	1		IDEXX Legiolert	12/30/2020 13:00



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Analytical Report

WO#: 20L0365
 Date Reported: 01/25/2021

Client: Freeport Area School District
 Project: Buffalo Elementary Legionella
 Sample Number: 20L0365-05
Sample: Kindergarten Pod

Collection: 12/29/2020 10:12
 Matrix: Drinking Water

Cert	Analyte	Result	MDL	PQL	Units	DF	Qualifier	Method	Date Analyzed
Microbiology		Prep: IDEXX Legiolert				Analyst: RET			
2	Legionella pneumophila Group	<0.100	0.100	0.100	MPN/mL	1		IDEXX Legiolert	12/30/2020 13:00



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Analytical Report

WO#: 20L0365
Date Reported: 01/25/2021

*[TOC_1]Work Documents
Images[TOC]*

DEFINITIONS:

DF: Dilution factor; the dilution factor applied to the prepared sample.

DUP: Duplicate; aliquots of a sample taken from the same container under laboratory conditions and processed and analyzed independently, used to calculate Precision (%RPD).

LCS: Laboratory Control Sample; prepared by adding a known amount of target analytes to a specified amount of clean matrix and prepared with the batch of samples, used to calculate Accuracy (%REC).

LCS D: A duplicate LCS sample, used to calculate both Accuracy (%REC) and Precision (%RPD).

MB: Method Blank; a sample of similar matrix that does not contain target analytes or interference that may impact the analytical results and is processed simultaneously with, and under the same conditions, as samples through all steps of the analytical procedure, used to assess and verify that the analytical process is free of contamination.

MDL: Method Detection Limit; The lowest concentration of an analyte that can be detected by the method in the applicable matrix.

MS: Matrix Spike; prepared by adding a known amount of target analytes to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available, used to calculate Accuracy (%REC).

MS D: A duplicate MS sample, used to calculate both Accuracy (%REC) and Precision (%RPD).

%REC: Percent Recovery of a known spike (SPK); a measure of accuracy expressed as a percentage of a measured (recovered) concentration compared to the known concentration (SPK) added to the sample. This is compared to the Low acceptable and High Limits.

%RPD: Relative Percent Difference; a measure of precision expressed as a percentage of the difference between two duplicates relative to the average concentration. This is compared to the RPD Limit.

PL: Permit limit; Not included on all reports. Used primarily for NPDES wastewater and POTW discharge permits.

PQL: Practical Quantitation Limit; The lowest verified limit to which data is quantified without qualifications. Analyte concentrations below PQL are reported either as ND or as a number with a "J" qualifier. Also known as the Reporting Limit (RL).

Qual: Qualifier that applies to the analyte reported.

SPK: Spike; used in the QC section for both SPK Value and SPK Ref Val.

ND: Not detected at the Reporting Limit.



ENVIRONMENTAL

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20L0365



LA

X Check if sa

COMPANY NAME:	Freeport Area SD	CONTACT:	Eric Mailki	INVOICE TO	
ADDRESS:	PO Box C			ADDRESS	
CITY:	Freeport	STATE:	PA	ZIP	16229
PHONE No.	7242955141 ext 1251	FAX No.		CITY	STATE ZIP
EMAIL:	mailki@freeport.k12.pa.us	PROJECT ID:	Legionella	Phone No.	FAX No.
				PO No.	QUOTE No.

TAT 10 Day (STD) *RUSH: 1 Day 2 Day 5 Day Auth. Signature _____
 *RUSH REQUESTS MAY INCUR SURCHARGES

ANALYSIS REQUESTED

Special Instructions & QC Requirements

Buffalo Elementary

TEMP °C 8.4

VIS. ICE YES / NO

Sample Disposal Return to Client Disposal by Lab Archive for _____ Mos.

No.	SAMPLE IDENTIFICATION	DATE	TIME	CMP	GRAB	No. CONT	MATRIX	Legiolert	ANALYSIS REQUESTED														
1	Kitchen Hand Sink	12-29-20	1000		x		DW	X															
2	Special Education Pod		1003																				
3	1st/2nd Grade Pod		1006																				
4	2nd/3rd Grade Pod		1008																				
5	Kindergarten Pod	↓	1012																				
6																							
7																							
8																							
9																							
10																							
11																							
12																							
13																							

SAMPLES RECEIVED BY <i>[Signature]</i>	RELINQUISHED BY <i>[Signature]</i>	DATE 12-30-20	TIME 9:40	RECEIVED BY <i>[Signature]</i>	RELINQUISHED BY <i>[Signature]</i>	DATE 12-30-20	TIME 12:20
		DATE	TIME	RECEIVED IN LABORATORY BY <i>[Signature]</i>		DATE 12/30/20	TIME 12:20



Sample Receipt Checklist

Work Order No. 2016365

RUSH: Yes No NA

Date & Time Received: 12-20-20 Checklist By: JG

Date & Time Logged In: 12-20-20 Logged In By: JG

Date & Time Reviewed: _____ Reviewed By: _____

Carrier Name: CWM UPS FedEx Client Other/Tracking # _____

Samples Analyzed In House? Yes No Subbed To _____

Is Chain Of Custody Present? Yes No

Is Chain Of Custody Properly Filled Out? Yes No

Does Chain Of Custody Match Sample Labels? Yes No

Are Samples Past Hold Time? Yes No NA

Are Samples In Proper Containers? Yes No Intact? Yes No

No. Of Containers? 5 Glass Plastic Baggie VOA Micro Tedlar Other _____

When Applicable, Is Headspace Present? Yes No MSDS Provided Yes No

Matrix: Aqueous Liquid Sludge Solid Oil Drinking Water Soil Gas Other _____

On Ice? 8-4 °C Yes No NA

Are Samples Preserved? Yes No NA

Chlorine detected? (for EPA 608/625 only): Yes No

Final pH Results:

Metals _____ Hardness _____ <input type="checkbox"/> HN03	CN _____ <input type="checkbox"/> NaOH
COD _____ NH3 _____ Phenol _____ TOC _____ TKN/TON _____ Phos _____ No2No3 _____ Total Nitrogen _____ <input type="checkbox"/> H2SO4	
Sulfide _____ <input type="checkbox"/> NaOH & ZnAcetate	Other _____

Field Data: pH Temp Flow TRC TRC Low Color Odor Turbidity Other _____

Explanation of Comments & Problems:

Based on client knowledge and in coordination with Listed Waste (Lists: F, K, P and U per CFR 40) sample determination:

to be
 not to be
from Listed Source



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1/25/2021

Eric Mailki
Freeport Area School District
PO Box C
Freeport, PA 16229

RE: High School Legionella

Order No: 20L0361

Dear Eric Mailki,

CWM Environmental Cleveland, LLC. received sample(s) on 12/30/2020 for the analyses presented in the following report.

There were no problems with the analytical results associated with this report, unless otherwise noted in an attached Case Narrative. Quality Control data is within laboratory defined method(s) and specified acceptance limits, unless otherwise noted within the attached Case Narrative.

Solid Samples are reported in $\mu\text{g}/\text{Kg}$ or mg/Kg as received, unless specified in the units section of the report as dry weight, indicated as: $\mu\text{g}/\text{Kg-dry}$ or $\text{mg}/\text{Kg-dry}$.

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

Certifications:

1. Varies with analyst - Lab 4041
 2. NELAP - FLDOH Laboratory E871150
 3. 2019-2020 DMRQA Parameter
- VAP - Ohio EPA Voluntary Action Program LabID # CL107

Disclaimer: If no cert appears in the Cert column, no certification should be assumed. Subcontracted analytes ran under the associated laboratory scope of accreditation.

Sincerely,

A handwritten signature in blue ink that reads 'Theresa Ortiz'. The signature is written in a cursive style.

Theresa Ortiz, Customer Service Rep



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Analytical Report

WO#: 20L0361
Date Reported: 01/25/2021

[TOC_1]Case Narrative
Work Order[TOC]

Work Order Case Narrative

Amended Report. This version supersedes all prior versions.

Date: lmw

Initials: 1/25/2021

Comments: Hold time amended



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Analytical Report

WO#: 20L0361
 Date Reported: 01/25/2021

Client: Freeport Area School District
 Project: High School Legionella
 Sample Number: 20L0361-01
Sample: Front Entrance Mens Room

Collection: 12/29/2020 09:02
 Matrix: Drinking Water

Cert	Analyte	Result	MDL	PQL	Units	DF	Qualifier	Method	Date Analyzed
Microbiology		Prep: IDEXX Legiolert				Analyst: RET			
2	Legionella pneumophila Group	<0.100	0.100	0.100	MPN/mL	1		IDEXX Legiolert	12/30/2020 13:00



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Analytical Report

WO#: 20L0361
 Date Reported: 01/25/2021

Client: Freeport Area School District
 Project: High School Legionella
 Sample Number: 20L0361-02
Sample: Library Mens Room

Collection: 12/29/2020 09:03
 Matrix: Drinking Water

Cert	Analyte	Result	MDL	PQL	Units	DF	Qualifier	Method	Date Analyzed
Microbiology		Prep: IDEXX Legiolert				Analyst: RET			
2	Legionella pneumophila Group	<0.100	0.100	0.100	MPN/mL	1		IDEXX Legiolert	12/30/2020 13:00



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Analytical Report

WO#: 20L0361
 Date Reported: 01/25/2021

Client: Freeport Area School District
 Project: High School Legionella
 Sample Number: 20L0361-03
Sample: Science Wing Mens Room

Collection: 12/29/2020 09:06
 Matrix: Drinking Water

Cert	Analyte	Result	MDL	PQL	Units	DF	Qualifier	Method	Date Analyzed
Microbiology		Prep: IDEXX Legiolert				Analyst: RET			
2	Legionella pneumophila Group	<0.100	0.100	0.100	MPN/mL	1		IDEXX Legiolert	12/30/2020 13:00



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Analytical Report

WO#: 20L0361
 Date Reported: 01/25/2021

Client: Freeport Area School District
 Project: High School Legionella
 Sample Number: 20L0361-04
Sample: Student Entrance Mens Room

Collection: 12/29/2020 09:08
 Matrix: Drinking Water

Cert	Analyte	Result	MDL	PQL	Units	DF	Qualifier	Method	Date Analyzed
Microbiology		Prep: IDEXX Legiolert				Analyst: RET			
2	Legionella pneumophila Group	<0.100	0.100	0.100	MPN/mL	1		IDEXX Legiolert	12/30/2020 13:00



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Analytical Report

WO#: 20L0361
 Date Reported: 01/25/2021

Client: Freeport Area School District
 Project: High School Legionella
 Sample Number: 20L0361-05
Sample: Kitchen Hand Sink

Collection: 12/29/2020 09:12
 Matrix: Drinking Water

Cert	Analyte	Result	MDL	PQL	Units	DF	Qualifier	Method	Date Analyzed
Microbiology		Prep: IDEXX Legiolert				Analyst: RET			
2	Legionella pneumophila Group	<0.100	0.100	0.100	MPN/mL	1		IDEXX Legiolert	12/30/2020 13:00



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Analytical Report

WO#: 20L0361

Date Reported: 01/25/2021

*[TOC_1]Work Documents
Images[TOC]*

DEFINITIONS:

DF: Dilution factor; the dilution factor applied to the prepared sample.

DUP: Duplicate; aliquots of a sample taken from the same container under laboratory conditions and processed and analyzed independently, used to calculate Precision (%RPD).

LCS: Laboratory Control Sample; prepared by adding a known amount of target analytes to a specified amount of clean matrix and prepared with the batch of samples, used to calculate Accuracy (%REC).

LCS D: A duplicate LCS sample, used to calculate both Accuracy (%REC) and Precision (%RPD).

MB: Method Blank; a sample of similar matrix that does not contain target analytes or interference that may impact the analytical results and is processed simultaneously with, and under the same conditions, as samples through all steps of the analytical procedure, used to assess and verify that the analytical process is free of contamination.

MDL: Method Detection Limit; The lowest concentration of an analyte that can be detected by the method in the applicable matrix.

MS: Matrix Spike; prepared by adding a known amount of target analytes to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available, used to calculate Accuracy (%REC).

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%RPD: Relative Percent Difference; a measure of precision expressed as a percentage of the difference between two duplicates relative to the average concentration. This is compared to the RPD Limit.

PL: Permit limit; Not included on all reports. Used primarily for NPDES wastewater and POTW discharge permits.

PQL: Practical Quantitation Limit; The lowest verified limit to which data is quantified without qualifications. Analyte concentrations below PQL are reported either as ND or as a number with a "J" qualifier. Also known as the Reporting Limit (RL).

Qual: Qualifier that applies to the analyte reported.

SPK: Spike; used in the QC section for both SPK Value and SPK Ref Val.

ND: Not detected at the Reporting Limit.



ENVIRONMENTAL

4450 Johnston Parkway, Unit B · Cleveland, OH 44128
 (216) 663 0808 · FAX (216) 663 0656

20L0361



X Check if

COMPANY NAME: Freeport Area SD		CONTACT: Eric Mailki		INVOICE TO	
ADDRESS: PO Box C				ADDRESS	
CITY: Freeport	STATE: PA	ZIP: 16229	CITY		
PHONE No. 7242955141 ext 1251	FAX No.	Phone No.			STATE
EMAIL: mailki@freeport.k12.pa.us	PROJECT ID: Legionella	FAX No.			ZIP
TAT <input type="checkbox"/> 10 Day (STD) *RUSH: <input type="checkbox"/> 1 Day <input type="checkbox"/> 2 Day <input type="checkbox"/> 5 Day Auth. Signature _____		PO No.			
*RUSH REQUESTS MAY INCUR SURCHARGES		QUOTE No.			

ANALYSIS REQUESTED

Special Instructions & QC Requirements

High School

TEMP °C **8.4**

VIS. ICE **YES / NO**

Sample Disposal Return to Client Disposal by Lab Archive for ___ Mos.

No.	SAMPLE IDENTIFICATION	DATE	TIME	CMP	GRAB	No. CONT	MATRIX	Legiolert											
1	Front Entrance Mens Room	12-29-20	0900		x		DW	X											
2	Library Mens Room		0903																
3	Science Mens Room		0906																
4	Student Entrance Mens Room		0908																
5	Kitchen Hand Sink		0912																
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			

SAMPLES RECEIVED BY <i>[Signature]</i>	RELINQUISHED BY <i>[Signature]</i>	DATE 12-30-20	TIME 9:40	RECEIVED BY <i>[Signature]</i>	RELINQUISHED BY <i>[Signature]</i>	DATE 12-30-20	TIME 12:20
RECEIVED IN LABORATORY BY <i>[Signature]</i>		DATE 12/31/20	TIME 12:00				



Sample Receipt Checklist

Work Order No. 2010361

RUSH: Yes No NA

Date & Time Received: 12-30-20 Checklist By: JG

Date & Time Logged In: 12-30-20 Logged In By: JG

Date & Time Reviewed: _____ Reviewed By: _____

Carrier Name: CWM UPS FedEx Client Other/Tracking # _____

Samples Analyzed In House? Yes No Subbed To _____

Is Chain Of Custody Present? Yes No

Is Chain Of Custody Properly Filled Out? Yes No

Does Chain Of Custody Match Sample Labels? Yes No

Are Samples Past Hold Time? Yes No NA

Are Samples In Proper Containers? Yes No Intact? Yes No

No. Of Containers? 5 Glass Plastic Baggie VOA Micro Tedlar Other _____

When Applicable, Is Headspace Present? Yes No MSDS Provided Yes No

Matrix: Aqueous Liquid Sludge Solid Oil Drinking Water Soil Gas Other _____

On Ice? 8.4 °C Yes No NA

Are Samples Preserved? Yes No NA

Chlorine detected? (for EPA 608/625 only): Yes No

Final pH Results:

Metals _____ Hardness _____ HN03 CN _____ NaOH

COD _____ NH3 _____ Phenol _____ TOC _____ TKN/TON _____ Phos _____ No2No3 _____ Total Nitrogen _____ H2SO4

Sulfide _____ NaOH & ZnAcetate Other _____

Field Data: pH Temp Flow TRC TRC Low Color Odor Turbidity Other _____

Explanation of Comments & Problems:

Based on client knowledge and in coordination with Listed Waste (Lists: F, K, P and U per CFR 40) sample determination:
 to be
 not to be
from Listed Source



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1/25/2021

Eric Mailki
Freeport Area School District
PO Box C
Freeport, PA 16229

RE: Administration Legionella

Order No: 20L0360

Dear Eric Mailki,

CWM Environmental Cleveland, LLC. received sample(s) on 12/30/2020 for the analyses presented in the following report.

There were no problems with the analytical results associated with this report, unless otherwise noted in an attached Case Narrative. Quality Control data is within laboratory defined method(s) and specified acceptance limits, unless otherwise noted within the attached Case Narrative.

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

Certifications:

1. Varies with analyst - Lab 4041
 2. NELAP - FLDOH Laboratory E871150
 3. 2019-2020 DMRQA Parameter
- VAP - Ohio EPA Voluntary Action Program LabID # CL107

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Sincerely,

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Theresa Ortiz, Customer Service Rep



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Analytical Report

WO#: 20L0360
Date Reported: 01/25/2021

[TOC_1]Case Narrative
Work Order[TOC]

Work Order Case Narrative

Amended Report. This version supersedes all prior versions.

Date: lmw

Initials: 1/25/2021

Comments: Hold time amended



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Analytical Report

WO#: 20L0360
 Date Reported: 01/25/2021

Client: Freeport Area School District
 Project: Administration Legionella
 Sample Number: 20L0360-01
Sample: Kitchenette

Collection: 12/29/2020 09:45
 Matrix: Drinking Water

Cert	Analyte	Result	MDL	PQL	Units	DF	Qualifier	Method	Date Analyzed
Microbiology		Prep: IDEXX Legiolert				Analyst: RET			
2	Legionella pneumophila Group	<0.100	0.100	0.100	MPN/mL	1		IDEXX Legiolert	12/30/2020 13:00



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Analytical Report

WO#: 20L0360
Date Reported: 01/25/2021

*[TOC_1]Work Documents
Images[TOC]*

DEFINITIONS:

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MS: Matrix Spike; prepared by adding a known amount of target analytes to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available, used to calculate Accuracy (%REC).

MS D: A duplicate MS sample, used to calculate both Accuracy (%REC) and Precision (%RPD).

%REC: Percent Recovery of a known spike (SPK); a measure of accuracy expressed as a percentage of a measured (recovered) concentration compared to the known concentration (SPK) added to the sample. This is compared to the Low acceptable and High Limits.

%RPD: Relative Percent Difference; a measure of precision expressed as a percentage of the difference between two duplicates relative to the average concentration. This is compared to the RPD Limit.

PL: Permit limit; Not included on all reports. Used primarily for NPDES wastewater and POTW discharge permits.

PQL: Practical Quantitation Limit; The lowest verified limit to which data is quantified without qualifications. Analyte concentrations below PQL are reported either as ND or as a number with a "J" qualifier. Also known as the Reporting Limit (RL).

Qual: Qualifier that applies to the analyte reported.

SPK: Spike; used in the QC section for both SPK Value and SPK Ref Val.

ND: Not detected at the Reporting Limit.



Sample Receipt Checklist

Work Order No. 20L0360

RUSH: Yes No NA

Date & Time Received: 12-30-20 Checklist By: JG

Date & Time Logged In: 12-30-20 Logged In By: JG

Date & Time Reviewed: _____ Reviewed By: _____

Carrier Name: CWM UPS FedEx Client Other/Tracking # _____

Samples Analyzed In House? Yes No Subbed To _____

Is Chain Of Custody Present? Yes No

Is Chain Of Custody Properly Filled Out? Yes No

Does Chain Of Custody Match Sample Labels? Yes No

Are Samples Past Hold Time? Yes No NA

Are Samples In Proper Containers? Yes No Intact? Yes No

No. Of Containers? 1 Glass Plastic Baggie VOA Micro Tedlar Other _____

When Applicable, Is Headspace Present? Yes No MSDS Provided Yes No

Matrix: Aqueous Liquid Sludge Solid Oil Drinking Water Soil Gas Other _____

On Ice? 8.4 °C Yes No NA

Are Samples Preserved? Yes No NA

Chlorine detected? (for EPA 608/625 only): Yes No

Final pH Results:

Metals _____ Hardness _____ <input type="checkbox"/> HN03	CN _____ <input type="checkbox"/> NaOH
COD _____ NH3 _____ Phenol _____ TOC _____ TKN/TON _____ Phos _____ No2No3 _____ Total Nitrogen _____ <input type="checkbox"/> H2SO4	
Sulfide _____ <input type="checkbox"/> NaOH & ZnAcetate	Other _____

Field Data: pH Temp Flow TRC TRC Low Color Odor Turbidity Other _____

Explanation of Comments & Problems:

Based on client knowledge and in coordination with Listed Waste (Lists: F, K, P and U per CFR 40) sample determination:

to be
 not to be
from Listed Source



CWM Environmental Cleveland, LLC
4450 Johnston Parkway - Unit B
Cleveland, OH 44128
TEL: (216) 663-0808
FAX: (216) 663-0656
Website: www.cwmenvironmental.com

1/25/2021

Eric Mailki
Freeport Area School District
PO Box C
Freeport, PA 16229

RE: Middle School Legionella

Order No: 20L0359

Dear Eric Mailki,

CWM Environmental Cleveland, LLC. received sample(s) on 12/30/2020 for the analyses presented in the following report.

There were no problems with the analytical results associated with this report, unless otherwise noted in an attached Case Narrative. Quality Control data is within laboratory defined method(s) and specified acceptance limits, unless otherwise noted within the attached Case Narrative.

Solid Samples are reported in $\mu\text{g}/\text{Kg}$ or mg/Kg as received, unless specified in the units section of the report as dry weight, indicated as: $\mu\text{g}/\text{Kg-dry}$ or $\text{mg}/\text{Kg-dry}$.

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

Certifications:

1. Varies with analyst - Lab 4041
 2. NELAP - FLDOH Laboratory E871150
 3. 2019-2020 DMRQA Parameter
- VAP - Ohio EPA Voluntary Action Program LabID # CL107

Disclaimer: If no cert appears in the Cert column, no certification should be assumed. Subcontracted analytes ran under the associated laboratory scope of accreditation.

Sincerely,

A handwritten signature in blue ink that reads 'Theresa Ortiz'.

Theresa Ortiz, Customer Service Rep



CWM Environmental Cleveland, LLC.
4450 Johnston Parkway - Unit B
Cleveland, OH 44128
TEL: (216) 663-0808
FAX: (216) 663-0656
Website: www.cwmenvironmental.com

Analytical Report

WO#: 20L0359
Date Reported: 01/25/2021

[TOC_1]Case Narrative
Work Order[TOC]

Work Order Case Narrative

Amended Report. This version supersedes all prior versions.

Date: lmw

Initials: 1/25/2021

Comments: Hold time amended



CWM Environmental Cleveland, LLC.
 4450 Johnston Parkway - Unit B
 Cleveland, OH 44128
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 Website: www.cwmenvironmental.com

Analytical Report

WO#: 20L0359
 Date Reported: 01/25/2021

Client: Freeport Area School District
 Project: Middle School Legionella
 Sample Number: 20L0359-01
Sample: Kitchen Hand Sink

Collection: 12/29/2020 09:25
 Matrix: Drinking Water

Cert	Analyte	Result	MDL	PQL	Units	DF	Qualifier	Method	Date Analyzed
Microbiology		Prep: IDEXX Legiolert				Analyst: RET			
2	Legionella pneumophila Group	<0.100	0.100	0.100	MPN/mL	1		IDEXX Legiolert	12/30/2020 13:00



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Analytical Report

WO#: 20L0359
 Date Reported: 01/25/2021

Client: Freeport Area School District
 Project: Middle School Legionella
 Sample Number: 20L0359-02
Sample: Kitchen Wash Sink

Collection: 12/29/2020 09:28
 Matrix: Drinking Water

Cert	Analyte	Result	MDL	PQL	Units	DF	Qualifier	Method	Date Analyzed
Microbiology		Prep: IDEXX Legiolert				Analyst: RET			
2	Legionella pneumophila Group	<0.100	0.100	0.100	MPN/mL	1		IDEXX Legiolert	12/30/2020 13:00



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Analytical Report

WO#: 20L0359
 Date Reported: 01/25/2021

Client: Freeport Area School District
 Project: Middle School Legionella
 Sample Number: 20L0359-03
Sample: North Side Mens Room

Collection: 12/29/2020 09:31
 Matrix: Drinking Water

Cert	Analyte	Result	MDL	PQL	Units	DF	Qualifier	Method	Date Analyzed
Microbiology		Prep: IDEXX Legiolert				Analyst: RET			
2	Legionella pneumophila Group	<0.100	0.100	0.100	MPN/mL	1		IDEXX Legiolert	12/30/2020 13:00



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Analytical Report

WO#: 20L0359
 Date Reported: 01/25/2021

Client: Freeport Area School District
 Project: Middle School Legionella
 Sample Number: 20L0359-04
Sample: West Side Mens Room

Collection: 12/29/2020 09:35
 Matrix: Drinking Water

Cert	Analyte	Result	MDL	PQL	Units	DF	Qualifier	Method	Date Analyzed
Microbiology		Prep: IDEXX Legiolert				Analyst: RET			
2	Legionella pneumophila Group	<0.100	0.100	0.100	MPN/mL	1		IDEXX Legiolert	12/30/2020 13:00



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Analytical Report

WO#: 20L0359
 Date Reported: 01/25/2021

Client: Freeport Area School District
 Project: Middle School Legionella
 Sample Number: 20L0359-05
Sample: South Side Mens Room

Collection: 12/29/2020 09:38
 Matrix: Drinking Water

Cert	Analyte	Result	MDL	PQL	Units	DF	Qualifier	Method	Date Analyzed
Microbiology		Prep: IDEXX Legiolert				Analyst: RET			
2	Legionella pneumophila Group	<0.100	0.100	0.100	MPN/mL	1		IDEXX Legiolert	12/30/2020 13:00



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Analytical Report

WO#: 20L0359
Date Reported: 01/25/2021

*[TOC_1]Work Documents
Images[TOC]*

DEFINITIONS:

DF: Dilution factor; the dilution factor applied to the prepared sample.

DUP: Duplicate; aliquots of a sample taken from the same container under laboratory conditions and processed and analyzed independently, used to calculate Precision (%RPD).

LCS: Laboratory Control Sample; prepared by adding a known amount of target analytes to a specified amount of clean matrix and prepared with the batch of samples, used to calculate Accuracy (%REC).

LCS D: A duplicate LCS sample, used to calculate both Accuracy (%REC) and Precision (%RPD).

MB: Method Blank; a sample of similar matrix that does not contain target analytes or interference that may impact the analytical results and is processed simultaneously with, and under the same conditions, as samples through all steps of the analytical procedure, used to assess and verify that the analytical process is free of contamination.

MDL: Method Detection Limit; The lowest concentration of an analyte that can be detected by the method in the applicable matrix.

MS: Matrix Spike; prepared by adding a known amount of target analytes to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available, used to calculate Accuracy (%REC).

MS D: A duplicate MS sample, used to calculate both Accuracy (%REC) and Precision (%RPD).

%REC: Percent Recovery of a known spike (SPK); a measure of accuracy expressed as a percentage of a measured (recovered) concentration compared to the known concentration (SPK) added to the sample. This is compared to the Low acceptable and High Limits.

%RPD: Relative Percent Difference; a measure of precision expressed as a percentage of the difference between two duplicates relative to the average concentration. This is compared to the RPD Limit.

PL: Permit limit; Not included on all reports. Used primarily for NPDES wastewater and POTW discharge permits.

PQL: Practical Quantitation Limit; The lowest verified limit to which data is quantified without qualifications. Analyte concentrations below PQL are reported either as ND or as a number with a "J" qualifier. Also known as the Reporting Limit (RL).

Qual: Qualifier that applies to the analyte reported.

SPK: Spike; used in the QC section for both SPK Value and SPK Ref Val.

ND: Not detected at the Reporting Limit.



ENVIRONMENTAL

4450 Johnston Parkway, Unit B · Cleveland, OH 44128
 (216) 663 0808 · FAX (216) 663 0656

20L0359



X Check if s

COMPANY NAME:	Freeport Area SD	CONTACT:	Eric Mailki	INVOICE TO	
ADDRESS:	PO Box C			ADDRESS	
CITY:	Freeport	STATE:	PA	ZIP	16229
PHONE No.	7242955141 ext 1251	FAX No.		Phone No.	
EMAIL:	mailki@freeport.k12.pa.us	PROJECT ID:	Legionella	FAX No.	
TAT <input type="checkbox"/> 10 Day (STD) *RUSH: <input type="checkbox"/> 1 Day <input type="checkbox"/> 2 Day <input type="checkbox"/> 5 Day Auth. Signature _____				PO No.	QUOTE No.

*RUSH REQUESTS MAY INCUR SURCHARGES

ANALYSIS REQUESTED

Special Instructions & QC Requirements

Middle School

TEMP °C 8.4

VIS. ICE YES / NO

Sample Disposal Return to Client Disposal by Lab Archive for ___ Mos.

No.	SAMPLE IDENTIFICATION	DATE	TIME	CMP	GRAB	No. CONT	MATRIX	Legiolert											
1	Kitchen Hand Sink	12-29-20	0925		x		DW	Y											
2	Kitchen Wash Sink		0928																
3	North Side Mens Room		0931																
4	West Side Mens Room		0935																
5	South Side Mens Room		0938																
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			

SAMPLERS RECEIVED BY	RELINQUISHED BY	DATE	TIME	RECEIVED BY	RELINQUISHED BY	DATE	TIME
<i>[Signature]</i>	<i>[Signature]</i>	12-30-20	9:40	<i>[Signature]</i>	<i>[Signature]</i>	12-30-20	12:20
RECEIVED IN LABORATORY BY		DATE	TIME			DATE	TIME
						12/30/20	1000



Sample Receipt Checklist

Work Order No. 2010359

RUSH: Yes No NA

Date & Time Received: 12-30-20 Checklist By: JG

Date & Time Logged In: 12-30-20 Logged In By: JG

Date & Time Reviewed: _____ Reviewed By: _____

Carrier Name: CWM UPS FedEx Client Other/Tracking # _____

Samples Analyzed In House? Yes No Subbed To _____

Is Chain Of Custody Present? Yes No

Is Chain Of Custody Properly Filled Out? Yes No

Does Chain Of Custody Match Sample Labels? Yes No

Are Samples Past Hold Time? Yes No NA

Are Samples In Proper Containers? Yes No Intact? Yes No

No. Of Containers? 5 Glass Plastic Baggie VOA Micro Tedlar Other _____

When Applicable, Is Headspace Present? Yes No MSDS Provided Yes No

Matrix: Aqueous Liquid Sludge Solid Oil Drinking Water Soil Gas Other _____

On Ice? 8A °C Yes No NA

Are Samples Preserved? Yes No NA

Chlorine detected? (for EPA 608/625 only): Yes No

Final pH Results:

Metals _____ Hardness _____ HN03

CN _____ NaOH

COD _____ NH3 _____ Phenol _____ TOC _____ TKN/TON _____ Phos _____ No2No3 _____ Total Nitrogen _____ H2SO4

Sulfide _____ NaOH & ZnAcetate

Other _____

Field Data: pH Temp Flow TRC TRC Low Color Odor Turbidity Other _____

Explanation of Comments & Problems:

Based on client knowledge and in coordination with Listed Waste (Lists: F, K, P and U per CFR 40) sample determination:
 to be
 not to be from Listed Source



CWM Environmental Cleveland, LLC
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1/25/2021

Eric Mailki
Freeport Area School District
PO Box C
Freeport, PA 16229

RE: South Buffalo Elementary Legionella

Order No: 20L0358

Dear Eric Mailki,

CWM Environmental Cleveland, LLC. received sample(s) on 12/30/2020 for the analyses presented in the following report.

There were no problems with the analytical results associated with this report, unless otherwise noted in an attached Case Narrative. Quality Control data is within laboratory defined method(s) and specified acceptance limits, unless otherwise noted within the attached Case Narrative.

Solid Samples are reported in $\mu\text{g}/\text{Kg}$ or mg/Kg as received, unless specified in the units section of the report as dry weight, indicated as: $\mu\text{g}/\text{Kg-dry}$ or $\text{mg}/\text{Kg-dry}$.

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

Certifications:

1. Varies with analyst - Lab 4041
 2. NELAP - FLDOH Laboratory E871150
 3. 2019-2020 DMRQA Parameter
- VAP - Ohio EPA Voluntary Action Program LabID # CL107

Disclaimer: If no cert appears in the Cert column, no certification should be assumed. Subcontracted analytes ran under the associated laboratory scope of accreditation.

Sincerely,

A handwritten signature in blue ink that reads 'Theresa Ortiz'. The signature is written in a cursive style.

Theresa Ortiz, Customer Service Rep



CWM Environmental Cleveland, LLC.
4450 Johnston Parkway - Unit B
Cleveland, OH 44128
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Analytical Report

WO#: 20L0358
Date Reported: 01/25/2021

[TOC_1]Case Narrative
Work Order[TOC]

Work Order Case Narrative

Amended Report. This version supersedes all prior versions.

Date: lmw

Initials: 1/25/2021

Comments: Hold time amended



CWM Environmental Cleveland, LLC.
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 Cleveland, OH 44128
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Analytical Report

WO#: 20L0358
 Date Reported: 01/25/2021

Client: Freeport Area School District
 Project: South Buffalo Elementary Legionella
 Sample Number: 20L0358-01
Sample: Kitchen Hand Sink

Collection: 12/29/2020 10:30
 Matrix: Drinking Water

Cert	Analyte	Result	MDL	PQL	Units	DF	Qualifier	Method	Date Analyzed
Microbiology		Prep: IDEXX Legiolert				Analyst: RET			
2	Legionella pneumophila Group	<0.100	0.100	0.100	MPN/mL	1		IDEXX Legiolert	12/30/2020 13:00



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Analytical Report

WO#: 20L0358
 Date Reported: 01/25/2021

Client: Freeport Area School District
 Project: South Buffalo Elementary Legionella
 Sample Number: 20L0358-02
Sample: Kitchen Wash Sink

Collection: 12/29/2020 10:33
 Matrix: Drinking Water

Cert	Analyte	Result	MDL	PQL	Units	DF	Qualifier	Method	Date Analyzed
Microbiology		Prep: IDEXX Legiolert				Analyst: RET			
2	Legionella pneumophila Group	<0.100	0.100	0.100	MPN/mL	1		IDEXX Legiolert	12/30/2020 13:00



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Analytical Report

WO#: 20L0358
 Date Reported: 01/25/2021

Client: Freeport Area School District
 Project: South Buffalo Elementary Legionella
 Sample Number: 20L0358-03
Sample: South Side Pod

Collection: 12/29/2020 10:36
 Matrix: Drinking Water

Cert	Analyte	Result	MDL	PQL	Units	DF	Qualifier	Method	Date Analyzed
Microbiology		Prep: IDEXX Legiolert				Analyst: RET			
2	Legionella pneumophila Group	<0.100	0.100	0.100	MPN/mL	1		IDEXX Legiolert	12/30/2020 13:00



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Analytical Report

WO#: 20L0358
 Date Reported: 01/25/2021

Client: Freeport Area School District
 Project: South Buffalo Elementary Legionella
 Sample Number: 20L0358-04
Sample: East Side Pod

Collection: 12/29/2020 10:39
 Matrix: Drinking Water

Cert	Analyte	Result	MDL	PQL	Units	DF	Qualifier	Method	Date Analyzed	
Microbiology		Prep: IDEXX Legiolert					Analyst: RET			
2	Legionella pneumophila Group	<0.100	0.100	0.100	MPN/mL	1		IDEXX Legiolert	12/30/2020 13:00	



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Analytical Report

WO#: 20L0358
 Date Reported: 01/25/2021

Client: Freeport Area School District
 Project: South Buffalo Elementary Legionella
 Sample Number: 20L0358-05
Sample: North Side Pod

Collection: 12/29/2020 10:41
 Matrix: Drinking Water

Cert	Analyte	Result	MDL	PQL	Units	DF	Qualifier	Method	Date Analyzed
Microbiology		Prep: IDEXX Legiolert				Analyst: RET			
2	Legionella pneumophila Group	<0.100	0.100	0.100	MPN/mL	1		IDEXX Legiolert	12/30/2020 13:00



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Cleveland, OH 44128
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Analytical Report

WO#: 20L0358
Date Reported: 01/25/2021

*[TOC_1]Work Documents
Images[TOC]*

DEFINITIONS:

DF: Dilution factor; the dilution factor applied to the prepared sample.

DUP: Duplicate; aliquots of a sample taken from the same container under laboratory conditions and processed and analyzed independently, used to calculate Precision (%RPD).

LCS: Laboratory Control Sample; prepared by adding a known amount of target analytes to a specified amount of clean matrix and prepared with the batch of samples, used to calculate Accuracy (%REC).

LCS D: A duplicate LCS sample, used to calculate both Accuracy (%REC) and Precision (%RPD).

MB: Method Blank; a sample of similar matrix that does not contain target analytes or interference that may impact the analytical results and is processed simultaneously with, and under the same conditions, as samples through all steps of the analytical procedure, used to assess and verify that the analytical process is free of contamination.

MDL: Method Detection Limit; The lowest concentration of an analyte that can be detected by the method in the applicable matrix.

MS: Matrix Spike; prepared by adding a known amount of target analytes to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available, used to calculate Accuracy (%REC).

MS D: A duplicate MS sample, used to calculate both Accuracy (%REC) and Precision (%RPD).

%REC: Percent Recovery of a known spike (SPK); a measure of accuracy expressed as a percentage of a measured (recovered) concentration compared to the known concentration (SPK) added to the sample. This is compared to the Low acceptable and High Limits.

%RPD: Relative Percent Difference; a measure of precision expressed as a percentage of the difference between two duplicates relative to the average concentration. This is compared to the RPD Limit.

PL: Permit limit; Not included on all reports. Used primarily for NPDES wastewater and POTW discharge permits.

PQL: Practical Quantitation Limit; The lowest verified limit to which data is quantified without qualifications. Analyte concentrations below PQL are reported either as ND or as a number with a "J" qualifier. Also known as the Reporting Limit (RL).

Qual: Qualifier that applies to the analyte reported.

SPK: Spike; used in the QC section for both SPK Value and SPK Ref Val.

ND: Not detected at the Reporting Limit.



4450 Johnston Parkway, Unit B · Cleveland, OH 44128
 (216) 663 0808 · FAX (216) 663 0656

20L0358



LAB

X Check if sam

COMPANY NAME: Freeport Area SD		CONTACT: Eric Mailki		INVOICE TO				
ADDRESS: PO Box C		ADDRESS						
CITY: Freeport	STATE: PA	ZIP: 16229	CITY		STATE	ZIP		
PHONE No. 7242955141 ext 1251	FAX No.	Phone No.		FAX No.				
EMAIL: mailki@freeport.k12.pa.us	PROJECT ID: Legionella	PO No.		QUOTE No.				
TAT <input type="checkbox"/> 10 Day (STD) *RUSH: <input type="checkbox"/> 1 Day <input type="checkbox"/> 2 Day <input type="checkbox"/> 5 Day Auth. Signature _____				ANALYSIS REQUESTED				
*RUSH REQUESTS MAY INCUR SURCHARGES								
Special Instructions & QC Requirements			TEMP °C 8.4	MATRIX	Legiolert			
South Buffalo Elementary			VIS. ICE YES/NO					
Sample Disposal <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Mes:								
No.	SAMPLE IDENTIFICATION	DATE	TIME	CMP	GRAB	No. CONT		
1	Kitchen Hand Sink	12-29-20	1030		x	DW		
2	Kitchen Wash sink		1033					
3	South Side Pod		1036					
4	East Side Pod		1039					
5	North side Pod		1041					
6								
7								
8								
9								
10								
11								
12								
13								
SAMPLERS		RELINQUISHED BY	DATE	TIME	RECEIVED BY	RELINQUISHED BY	DATE	TIME
RECEIVED BY		RELINQUISHED BY	DATE	TIME	RECEIVED IN LABORATORY BY	RELINQUISHED BY	DATE	TIME



Sample Receipt Checklist

Work Order No. 2060358

RUSH: Yes No NA

Date & Time Received: 12-30-20 Checklist By: JG

Date & Time Logged In: 12-30-20 Logged In By: JG

Date & Time Reviewed: _____ Reviewed By: _____

Carrier Name: CWM UPS FedEx Client Other/Tracking # _____

Samples Analyzed In House? Yes No Subbed To _____

Is Chain Of Custody Present? Yes No

Is Chain Of Custody Properly Filled Out? Yes No

Does Chain Of Custody Match Sample Labels? Yes No

Are Samples Past Hold Time? Yes No NA

Are Samples In Proper Containers? Yes No Intact? Yes No

No. Of Containers? 5 Glass Plastic Baggie VOA Micro Tedlar Other _____

When Applicable, Is Headspace Present? Yes No MSDS Provided Yes No

Matrix: Aqueous Liquid Sludge Solid Oil Drinking Water Soil Gas Other _____

On Ice? 8.4 °C Yes No NA

Are Samples Preserved? Yes No NA

Chlorine detected? (for EPA 608/625 only): Yes No

Final pH Results:

Metals _____ Hardness _____ <input type="checkbox"/> HN03	CN _____ <input type="checkbox"/> NaOH
COD _____ NH3 _____ Phenol _____ TOC _____ TKN/TON _____ Phos _____ No2No3 _____ Total Nitrogen _____ <input type="checkbox"/> H2SO4	
Sulfide _____ <input type="checkbox"/> NaOH & ZnAcetate	Other _____

Field Data: pH Temp Flow TRC TRC Low Color Odor Turbidity Other _____

Explanation of Comments & Problems:

Based on client knowledge and in coordination with Listed Waste (Lists: F, K, P and U per CFR 40) sample determination:

to be
 not to be
from Listed Source