

Coleman Creek Consulting, Inc.

DRINKING WATER LEAD/COPPER SAMPLING OF EARLY EDUCATION FACILITY 1021 NW HIGHLAND, GRANTS PASS, OREGON FOR SOUTHERN OREGON EDUCATION SERVICE DISTRICT

INTRODUCTION

Coleman Creek Consulting, Inc. (CCC) was retained by the Southern Oregon Education Service District (SOESD) to perform representative lead drinking water sampling of the Early Education Facility buildings the above address. The purpose of the lead/copper drinking water sampling was to determine the concentration of lead in representative drinking water sources and compare with regulatory standards.

DRINKING WATER SAMPLING

David W. Fawcett of CCC visited the Early Education Facility on June 28, 2017, accompanied by Mark Salter. Mr. Fawcett and Mr. Salter reviewed the building drinking water sources, and selected six representative locations based on presumed utilization by building occupants. Mr. Fawcett collected lead drinking water samples from the classrooms, office area, bungalow, and outside. See Site Sample Record Sheet (page 3) for a description of the sample location areas. The drinking water samples were collected early in the morning, ensuring that the sampled sources had not been in use since the previous day. The samples were placed in a cooler and transported to Neilson Research Corporation for lead and copper analysis.

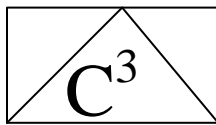
LEAD ANALYSIS/COMPARISON WITH REGULATORY LIMITS

The drinking water samples collected were analyzed for lead using EPA Method 200.8.

SAMPLE	DESCRIPTION/LOCATION	LEAD (mg/L)	ACTION LEVEL (mg/L)
17-077G.11	Bungalow Bath Sink	0.00205	0.015
17-077G.12	Upper Kitchen Drinking Spout	0.00132	0.015
17-077G.13	Red Classroom Drinking Fountain	0.000767	0.015
17-077G.14	Purple Classroom Drinking Fountain	0.00051	0.015
17-077G.15	Drinking Fountain Outside Playground	0.000269	0.015
17-077G.16	Upstairs Kitchen Sink Faucet	0.00108	0.015

PRIMARY DRINKING WATER STANDARDS FOR LEAD

The Safe Drinking Water Act established National Primary Drinking Water Regulations for public drinking water systems. An “Action Level” for lead concentration in water was established at 0.015



Coleman Creek Consulting, Inc.

mg/L. The public drinking water system must control for corrosiveness if more than 10% or tap water samples are reported above the Lead Action Level of 0.015 mg/L.

COPPER ANALYSIS/COMPARISON WITH REGULATORY LIMITS

The drinking water samples collected were analyzed for copper using EPA Method 200.8.

SAMPLE	DESCRIPTION/LOCATION	COPPER (mg/L)	ACTION LEVEL (mg/L)
17-077G.11	Bungalow Bath Sink	0.0234	1.3
17-077G.12	Upper Kitchen Drinking Spout	0.0026	1.3
17-077G.13	Red Class Drinking Fountain	0.485	1.3
17-077G.14	Purple Class Drinking Fountain	0.817	1.3
17-077G.15	Fountain Outside Playground	0.832	1.3
17-077G.16	Upstairs Kitchen Sink Faucet	0.0531	1.3

PRIMARY DRINKING WATER STANDARDS FOR COPPER

The Safe Drinking Water Act established National Primary Drinking Water Regulations for public drinking water systems. An "Action Level" for copper concentration in water was established at 1.3 mg/L. The public drinking water system must control for corrosiveness if more than 10% of tap water samples are reported above the Copper Action Level of 1.3 mg/L.

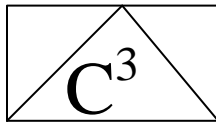
CONCLUSIONS

Six water samples were collected from representative drinking water sources at the Early Education Facility at a time ensuring the drinking water sources had not been used since the previous day. All six water samples were analyzed for lead and copper, and all were reported below the EPA Action Level of 0.015 mg/L Lead and 1.3 mg/L Copper.

RECOMMENDATIONS

Coleman Creek Consulting, Inc. has no recommendations for lead and copper drinking water sampling at the Early Education Facility at this time. Coleman Creek Consulting, Inc. appreciates the opportunity to continue to perform environmental sampling and consulting services to Southern Oregon Education Service District.

David W. Fawcett
Director of Consulting Services



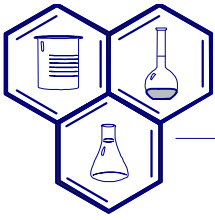
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DRINKING WATER LEAD/COPPER SAMPLE RECORD SHEET

FACILITY: Gilbert Creek Early Education
ADDRESS: 1021 NW Highland
Grants Pass, Oregon

DATE: 06-28-17
SAMPLER: David W. Fawcett

SAMPLE #	SOURCE DESCRIPTION	LOCATION	COLLECTION TIME
17-077G.11	Sink Faucet	Bungalow – Office Bathroom	0703
17-077G.12	Sink Faucet	Upstairs Kitchen Drinking Spout	0705
17-077G.13	Drinking Fountain	Red Classroom	0708
17-077G.14	Drinking Fountain	Purple Classroom	0710
17-077G.15	Sink Faucet	Outside at Playground	0713
17-077G.16	Sink Faucet	Upstairs Kitchen Faucet	0723



NEILSON RESEARCH CORPORATION

Environmental Testing Laboratory

7/5/2017

Dave Fawcett
Coleman Creek Consulting
810 Leonard St
Ashland, OR 97520

TEL: (541) 535-7108

FAX: (541) 535-8795

RE: 17-077G Gilbert Creek

Order No.: 1706B15

Dear Dave Fawcett:

Neilson Research Corporation received 6 sample(s) on 6/28/2017 for the analyses presented in the following report.

The results relate only to the parameters tested or to the sample as received by the laboratory. This report shall not be reproduced except in full, without the written approval of Neilson Research Corporation. If you have any questions regarding these test results, please feel free to call.

Sincerely,
Neilson Research Corporation

Tamra R. Schmedemann
Project Manager

Neilson Research Corporation

245 South Grape Street, Medford, Oregon 97501 541-770-5678 Fax 541-770-2901

Analysis Report

ORELAP 100016
EPA OR00028

CLIENT: Coleman Creek Consulting
Project: 17-077G Gilbert Creek
Lab Order: 1706B15

Date: 05-Jul-17

CASE NARRATIVE

The analyses were performed according to the guidelines in the Neilson Research Corporation Quality Assurance Program. This report contains analytical results for the sample(s) as received by the laboratory.

Neilson Research Corporation certifies that this report is in compliance with the requirements of NELAP. No unusual difficulties were experienced during analysis of this batch except as noted below or qualified with data flags on the reports.

The EPA recommended action level for lead in schools is 0.020 mg/L.

Neilson Research Corporation

245 South Grape Street, Medford, Oregon 97501 541-770-5678 Fax 541-770-2901

Analysis Report

ORELAP 100016
EPA OR00028

Coleman Creek Consulting

810 Leonard St
Ashland, OR 97520

Lab Order: **1706B15**

Received Date: **6/28/2017 12:05:00 PM**

Reported Date: **7/5/2017 1:42:05 PM**

Sample Information: 17-077G Gilbert Creek

Lab ID: 1706B15-01

Collection Date: 6/28/2017 7:03:00 AM

Matrix: DRINKING WATER

Client Sample ID: 17-077G.11

Source: City Water

Sample Location:

Trace Metals by EPA 200.8 ICP-MS					Dilution	Analyst: OML	NELAP
Analyses	Result	Qual	MRL	Units	Factor	Date Analyzed	Accredited
Copper	0.0234		0.0005	mg/L	1	6/30/2017	A
Lead	0.00205		0.0001	mg/L	1	6/30/2017	A

Lab ID: 1706B15-02

Collection Date: 6/28/2017 7:05:00 AM

Matrix: DRINKING WATER

Client Sample ID: 17-077G.12

Source: City Water

Sample Location:

Trace Metals by EPA 200.8 ICP-MS					Dilution	Analyst: OML	NELAP
Analyses	Result	Qual	MRL	Units	Factor	Date Analyzed	Accredited
Copper	0.00260		0.0005	mg/L	1	6/30/2017	A
Lead	0.00132		0.0001	mg/L	1	6/30/2017	A

Lab ID: 1706B15-03

Collection Date: 6/28/2017 7:08:00 AM

Matrix: DRINKING WATER

Client Sample ID: 17-077G.13

Source: City Water

Sample Location:

Trace Metals by EPA 200.8 ICP-MS					Dilution	Analyst: OML	NELAP
Analyses	Result	Qual	MRL	Units	Factor	Date Analyzed	Accredited
Copper	0.485		0.0005	mg/L	1	6/30/2017	A
Lead	0.000767		0.0001	mg/L	1	6/30/2017	A

Lab ID: 1706B15-04

Collection Date: 6/28/2017 7:10:00 AM

Matrix: DRINKING WATER

Client Sample ID: 17-077G.14

Source: City Water

Sample Location:

Trace Metals by EPA 200.8 ICP-MS					Dilution	Analyst: OML	NELAP
Analyses	Result	Qual	MRL	Units	Factor	Date Analyzed	Accredited
Copper	0.817		0.0005	mg/L	1	6/30/2017	A
Lead	0.000510		0.0001	mg/L	1	6/30/2017	A

Lab ID: 1706B15-05

Collection Date: 6/28/2017 7:13:00 AM

Matrix: DRINKING WATER

Client Sample ID: 17-077G.15

Source: City Water

Sample Location:

Trace Metals by EPA 200.8 ICP-MS					Dilution	Analyst: OML	NELAP
Analyses	Result	Qual	MRL	Units	Factor	Date Analyzed	Accredited
Copper	0.832		0.0005	mg/L	1	6/30/2017	A
Lead	0.000269		0.0001	mg/L	1	6/30/2017	A

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Minimum Reporting Limit

Neilson Research Corporation

245 South Grape Street, Medford, Oregon 97501 541-770-5678 Fax 541-770-2901

Analysis Report

ORELAP 100016
EPA OR00028

Coleman Creek Consulting

810 Leonard St

Ashland, OR 97520

Sample Information: 17-077G Gilbert Creek

Lab Order: **1706B15**

Received Date: **6/28/2017 12:05:00 PM**

Reported Date: **7/5/2017 1:42:05 PM**

Lab ID: 1706B15-06

Collection Date: 6/28/2017 7:23:00 AM

Matrix: DRINKING WATER

Client Sample ID: 17-077G.16

Source: City Water

Sample Location:

Trace Metals by EPA 200.8 ICP-MS						Analyst: OML	NELAP
Analyses	Result	Qual	MRL	Units	Dilution Factor	Date Analyzed	Accredited
Copper	0.0531		0.0005	mg/L	1	6/30/2017	A
Lead	0.00108		0.0001	mg/L	1	6/30/2017	A

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Minimum Reporting Limit

CLIENT: Coleman Creek Consulting
 Work Order: 1706B15
 Project: 17-077G Gilbert Creek

ANALYTICAL QC SUMMARY REPORT

TestCode: ICPMS_200.8_SCHOOL

Sample ID: MB-38598	SampType: MBLK	TestCode: ICPMS_200.8	Units: mg/L	Prep Date: 6/29/2017	RunNo: 96290						
Client ID: ZZZZZ	Batch ID: 38598	TestNo: EPA 200.8	(EPA 200.8)	Analysis Date: 6/30/2017	SeqNo: 1457686						
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	ND	0.000500									
Lead	ND	0.000100									

Sample ID: MB-38600	SampType: MBLK	TestCode: ICPMS_200.8	Units: mg/L	Prep Date: 6/29/2017	RunNo: 96290						
Client ID: ZZZZZ	Batch ID: 38600	TestNo: EPA 200.8	(EPA 200.8)	Analysis Date: 6/30/2017	SeqNo: 1457714						
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	ND	0.000500									
Lead	ND	0.000100									

Sample ID: LCS-38598	SampType: LCS	TestCode: ICPMS_200.8	Units: mg/L	Prep Date: 6/29/2017	RunNo: 96290						
Client ID: ZZZZZ	Batch ID: 38598	TestNo: EPA 200.8	(EPA 200.8)	Analysis Date: 6/30/2017	SeqNo: 1457687						
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	0.09320	0.000500	0.1	0	93.2	85	115				
Lead	0.1001	0.000100	0.1	0.000033	100	85	115				

Sample ID: LCS-38600	SampType: LCS	TestCode: ICPMS_200.8	Units: mg/L	Prep Date: 6/29/2017	RunNo: 96290						
Client ID: ZZZZZ	Batch ID: 38600	TestNo: EPA 200.8	(EPA 200.8)	Analysis Date: 6/30/2017	SeqNo: 1457715						
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	0.09097	0.000500	0.1	0	91.0	85	115				
Lead	0.1005	0.000100	0.1	0.00002	100	85	115				

Sample ID: 1706B15-05AMS	SampType: MS	TestCode: ICPMS_200.8	Units: mg/L	Prep Date: 6/29/2017	RunNo: 96290						
Client ID: 17-077G.15	Batch ID: 38598	TestNo: EPA 200.8	(EPA 200.8)	Analysis Date: 6/30/2017	SeqNo: 1457710						
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
 ND Not Detected at the Minimum Reporting Limit R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

CLIENT: Coleman Creek Consulting
 Work Order: 1706B15
 Project: 17-077G Gilbert Creek

ANALYTICAL QC SUMMARY REPORT

TestCode: ICPMS_200.8_SCHOOL

Sample ID: 1706B15-05AMS	SampType: MS	TestCode: ICPMS_200.8	Units: mg/L	Prep Date: 6/29/2017	RunNo: 96290						
Client ID: 17-077G.15	Batch ID: 38598	TestNo: EPA 200.8	(EPA 200.8)	Analysis Date: 6/30/2017	SeqNo: 1457710						
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	0.9423	0.000500	0.1	0.832	110	70	130				
Lead	0.09837	0.000100	0.1	0.000269	98.1	70	130				

Sample ID: 1706B23-19AMS	SampType: MS	TestCode: ICPMS_200.8	Units: mg/L	Prep Date: 6/29/2017	RunNo: 96290						
Client ID: ZZZZZ	Batch ID: 38600	TestNo: EPA 200.8	(EPA 200.8)	Analysis Date: 6/30/2017	SeqNo: 1457738						
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	0.9148	0.000500	0.1	0.8236	91.2	70	130				
Lead	0.1039	0.000100	0.1	0.001076	103	70	130				

Sample ID: 1706B15-05AMSD	SampType: MSD	TestCode: ICPMS_200.8	Units: mg/L	Prep Date: 6/29/2017	RunNo: 96290						
Client ID: 17-077G.15	Batch ID: 38598	TestNo: EPA 200.8	(EPA 200.8)	Analysis Date: 6/30/2017	SeqNo: 1457711						
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	0.9513	0.000500	0.1	0.832	119	70	130	0.9423	0.958	20	
Lead	0.1009	0.000100	0.1	0.000269	101	70	130	0.09837	2.50	20	

Sample ID: 1706B23-19AMSD	SampType: MSD	TestCode: ICPMS_200.8	Units: mg/L	Prep Date: 6/29/2017	RunNo: 96290						
Client ID: ZZZZZ	Batch ID: 38600	TestNo: EPA 200.8	(EPA 200.8)	Analysis Date: 6/30/2017	SeqNo: 1457739						
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	0.9029	0.000500	0.1	0.8236	79.3	70	130	0.9148	1.31	20	
Lead	0.1040	0.000100	0.1	0.001076	103	70	130	0.1039	0.0953	20	

Qualifiers: E Value above quantitation range H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits
 ND Not Detected at the Minimum Reporting Limit R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits



Environmental Testing Laboratory
 245 South Grape Street * Medford, OR 97501
 (541) 770-5678 Fax (541) 770-2901

Chain of Custody Record

This Chain of Custody is a LEGAL DOCUMENT and must be filled out accurately.

Page 1 of 1

Section A Required Client Information Company: <u>Chemura Creek Landfill</u> Address: _____ Email: _____ Phone: _____ Fax: _____ Collected By (Print): <u>David W. Fairwell</u> Collected By (Sign): <u>[Signature]</u> Email Report <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Mail Report <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Fax Report <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Section B Required Project Information Project Name: <u>Gilbert Creek</u> Project Number: _____ Report To: _____ Copy To: _____ P.O. #: _____
Section C Invoice Information Attention: _____ Company Name: _____ Address: _____ P.O. #: _____	
Section D Rush Status (Subject to Scheduling) <input type="checkbox"/> Standard 10-14 Days <input type="checkbox"/> 5 Business Days (50% surcharge) <input type="checkbox"/> 3 Business Days (75% surcharge) <input type="checkbox"/> 24 - 48 hours (100% surcharge) <input type="checkbox"/> Other _____ Authorized <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

Sample ID	Comp/Grab	Matrix*	Date Collected	Time Collected	No. of Containers	Analysis Requested		NRC Workorder # <small>(Lab Use Only)</small>	NRC Sample # <small>(Lab Use Only)</small>
						Pb/Ca	Other		
17-0776.11	Grab	DW	6-28-17	0703	1			1706315	01
12				0705	1				02
13				0708	1				03
14				0710	1				04
15				0713	1				05
16				0723	1				06

Section E Sample Information Matrix: DW - Drinking Water WW - Wastewater W - Water S - Soil/Solid SL - Sludge O - Oil WP - Wipe OT - Other	
Section F Relinquish/Receive Relinquished By: <u>[Signature]</u> Sign Received By: <u>David W. Fairwell</u> Print Relinquished By: _____ Received By: _____ Relinquished By: _____ Received By: _____ Relinquished By: <u>[Signature]</u> Print Received By: <u>[Signature]</u> Print	Section G Lab Use Only Temp: _____ 4°C +/- 2°C: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Received on ice: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Number of Bottles Received: _____ pH Checked: _____ COC Seal Intact: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Field Blank included: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Date: <u>6-28-17</u> Time: <u>1205</u>	Date: <u>6-28-17</u> Time: <u>1225</u>

Payment: <input type="checkbox"/> Invoice <input type="checkbox"/> Cash <input type="checkbox"/> VISA <input type="checkbox"/> MD <input type="checkbox"/> Check # _____ Received via: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Other <input type="checkbox"/> Hand Amount: _____
