

Coleman Creek Consulting, Inc.

DRINKING WATER SAMPLING

OF

MEDFORD ESD FACILITY

101 N. GRAPE STREET, MEDFORD, 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 drinking water sampling of the Medford ESD Facility at the above address. The purpose of the drinking water sampling was to determine the concentration of lead and copper in representative drinking water sources and compare with regulatory standards.

DRINKING WATER SAMPLING

David W. Fawcett of CCC visited the Medford ESD Facility on June 28, 2017, accompanied by Mark Salter. Mr. Fawcett and Mr. Salter reviewed the drinking water sources in the building, and selected five representative locations based on presumed utilization by building occupants. 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 analysis.

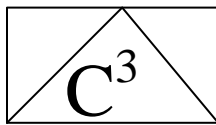
LEAD ANALYSIS/COMPARISON WITH REGULATORY LIMITS

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.6	1 st Floor Hall at Soda Machines	0.000404	0.015
17-077G.7	1 st Floor Library	0.0017	0.015
17-077G.8	Mid-Level Break Room	0.00033	0.015
17-077G.9	2 nd Floor Lounge Meeting Room	0.00586	0.015
17-077G.10	2 nd Floor Curriculum Department	0.000584	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 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.



Coleman Creek Consulting, Inc.

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.6	1 st Floor Hall at Soda Machines	0.835	1.3
17-077G.7	1 st Floor Library	0.54	1.3
17-077G.8	Mid-Level Break Room	0.254	1.3
17-077G.9	2 nd Floor Lounge Meeting Room	0.496	1.3
17-077G.10	2 nd Floor Curriculum Department	0.673	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.

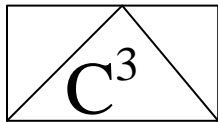
CONCLUSIONS

Five water samples were collected from representative drinking water sources at the Medford ESD Building at a time ensuring the drinking water sources had not been used since the previous day. All five 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 drinking water sampling at the Medford ESD 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



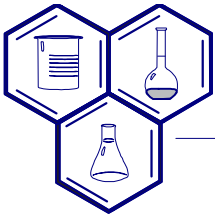
Coleman Creek Consulting, Inc.

DRINKING WATER LEAD/COPPER SAMPLE RECORD SHEET

FACILITY: Medford ESD
ADDRESS: 101 N. Grape Street
Medford, Oregon

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

SAMPLE #	SOURCE DESCRIPTION	LOCATION	COLLECTION TIME
17-077G.6	Drinking Fountain	1 st Floor Hall at Soda Machines	0608
17-077G.7	Drinking Fountain	1 st Floor Library	0611
17-077G.8	Sink Faucet	Mid-Level Break Room	0614
17-077G.9	Sink Faucet	2 nd Floor Lounge Meeting Room	0616
17-077G.10	Sink Faucet	2 nd Floor Curriculum Department	0618



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 Medford ESD

Order No.: 1706B14

Dear Dave Fawcett:

Neilson Research Corporation received 5 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 Medford ESD
Lab Order: 1706B14

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: **1706B14**

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

Reported Date: **7/5/2017 1:32:12 PM**

Sample Information: 17-077G Medford ESD

Lab ID: 1706B14-01

Collection Date: 6/28/2017 6:08:00 AM
Matrix: DRINKING WATER

Client Sample ID: 17-077G.6
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	0.835		0.0005	mg/L	1	6/30/2017	A
Lead	0.000404		0.0001	mg/L	1	6/30/2017	A

Lab ID: 1706B14-02

Collection Date: 6/28/2017 6:11:00 AM
Matrix: DRINKING WATER

Client Sample ID: 17-077G.7
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	0.540		0.0005	mg/L	1	6/30/2017	A
Lead	0.00170		0.0001	mg/L	1	6/30/2017	A

Lab ID: 1706B14-03

Collection Date: 6/28/2017 6:14:00 AM
Matrix: DRINKING WATER

Client Sample ID: 17-077G.8
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	0.254		0.0005	mg/L	1	6/30/2017	A
Lead	0.000330		0.0001	mg/L	1	6/30/2017	A

Lab ID: 1706B14-04

Collection Date: 6/28/2017 6:16:00 AM
Matrix: DRINKING WATER

Client Sample ID: 17-077G.9
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	0.496		0.0005	mg/L	1	6/30/2017	A
Lead	0.00586		0.0001	mg/L	1	6/30/2017	A

Lab ID: 1706B14-05

Collection Date: 6/28/2017 6:18:00 AM
Matrix: DRINKING WATER

Client Sample ID: 17-077G.10
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	0.673		0.0005	mg/L	1	6/30/2017	A
Lead	0.000584		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: 1706B14
 Project: 17-077G Medford ESD

ANALYTICAL QC SUMMARY REPORT

TestCode: ICPMS_200.8_SCHOOL

Sample ID: MB-38596	SampType: MBLK	TestCode: ICPMS_200.8	Units: mg/L	Prep Date: 6/29/2017	RunNo: 96290						
Client ID: ZZZZZ	Batch ID: 38596	TestNo: EPA 200.8	(EPA 200.8)	Analysis Date: 6/30/2017	SeqNo: 1457609						
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-38596	SampType: LCS	TestCode: ICPMS_200.8	Units: mg/L	Prep Date: 6/29/2017	RunNo: 96290						
Client ID: ZZZZZ	Batch ID: 38596	TestNo: EPA 200.8	(EPA 200.8)	Analysis Date: 6/30/2017	SeqNo: 1457610						
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Copper	0.1040	0.000500	0.1	0	104	85	115				
Lead	0.09892	0.000100	0.1	0	98.9	85	115				

Sample ID: 1706A86-01AMS	SampType: MS	TestCode: ICPMS_200.8	Units: mg/L	Prep Date: 6/29/2017	RunNo: 96290						
Client ID: ZZZZZ	Batch ID: 38596	TestNo: EPA 200.8	(EPA 200.8)	Analysis Date: 6/30/2017	SeqNo: 1457625						
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Copper	0.1089	0.000500	0.1	0.01875	90.2	70	130				
Lead	0.09812	0.000100	0.1	0.000337	97.8	70	130				

Sample ID: 1706A86-01AMSD	SampType: MSD	TestCode: ICPMS_200.8	Units: mg/L	Prep Date: 6/29/2017	RunNo: 96290						
Client ID: ZZZZZ	Batch ID: 38596	TestNo: EPA 200.8	(EPA 200.8)	Analysis Date: 6/30/2017	SeqNo: 1457626						
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Copper	0.1088	0.000500	0.1	0.01875	90.1	70	130	0.1089	0.122	20	
Lead	0.09768	0.000100	0.1	0.000337	97.3	70	130	0.09812	0.449	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 Crane 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.

Section A Required Client Information **Section B** Required Project Information **Section C** Invoice Information **Section D** Rush Status (Subject to Scheduling)

Company: <u>Colman Creek Consulting</u>	Project Name: <u>Medford ESD</u>	Attention:	<input checked="" 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
Address:	Project Number: <u>17-0776</u>	Company Name:	
Email:	Report To:	Address:	
Phone:	Copy To:	P.O. #	Authorized <input type="checkbox"/> Yes <input type="checkbox"/> No
Collected By (Print): <u>David W. Falloff</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		

Section E Sample Information

Sample ID	Comp/Grab	Matrix*	Date Collected	Time Collected	No. of Containers	Analysis Requested	NRC Workorder # (Lab Use Only)	NRC Sample # (Lab Use Only)
17-0776.6	60p	W	6-28-17	0608	1		1706B14	
7				0611	1			03
8				0614	1			04
10				0618	1			05

Section F Relinquish/Receive **Section G** Lab Use Only

*Matrix: **DW** - Drinking Water **WW** - Wastewater **W** - Water **S** - Soil/Solid **SL** - Sludge **O** - Oil **WP** - Waste **OT** - Other

Relinquished By: <u>[Signature]</u>	Sign	Print	Date	Time
Received By: <u>[Signature]</u>		<u>David W. Falloff</u>	<u>6-28-17</u>	<u>1205</u>
Relinquished By:				
Received By:				
Relinquished By:				
Received By:				
Relinquished By:				
Received By:				

Received Via: Cash VISA, M/C Check # _____

Payment: Invoice Cash VISA, M/C Check # _____

UPS FedEx Other Hand