

# 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 12, 2018, 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.

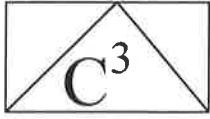
### **LEAD ANALYSIS/COMPARISON WITH REGULATORY LIMITS**

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

<b>SAMPLE</b>	<b>DESCRIPTION/LOCATION</b>	<b>LEAD (mg/L)</b>	<b>ACTION LEVEL (mg/L)</b>
18-078G.6	1 <sup>st</sup> Floor Hall at Soda Machines	0.000443	0.015
18-078G.7	Mid-Level Break Room	0.00713	0.015
18-078G.8	1 <sup>st</sup> Floor Library	0.00121	0.015
18-078G.9	2 <sup>nd</sup> Floor Curriculum Department	0.000783	0.015
18-078G.10	2 <sup>nd</sup> Floor Lounge Meeting Room	0.00568	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)
18-078G.6	1 <sup>st</sup> Floor Hall at Soda Machines	0.771	1.3
18-078G.7	Mid-Level Break Room	0.227	1.3
18-078G.8	1 <sup>st</sup> Floor Library	0.609	1.3
18-078G.9	2 <sup>nd</sup> Floor Curriculum Department	0.576	1.3
18-078G.10	2 <sup>nd</sup> Floor Lounge Meeting Room	0.579	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

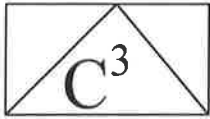
## CONCLUSIONS

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: 06-12-18  
SAMPLER: David W. Fawcett

SAMPLE #	SOURCE DESCRIPTION	LOCATION	COLLECTION TIME
18-078G.6	Drinking Fountain	1 <sup>st</sup> Floor Hall at Soda Machines	0550
18-078G.7	Drinking Fountain	Mid-Level Break Room	0553
18-078G.8	Sink Faucet	1 <sup>st</sup> Floor Library	0556
18-078G.9	Sink Faucet	2 <sup>nd</sup> Floor Curriculum Department	0602
18-078G.10	Sink Faucet	2 <sup>nd</sup> Floor Lounge Meeting Room	0604



# NEILSON RESEARCH CORPORATION

*Environmental Testing Laboratory*

6/22/2018

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

TEL: (541) 535-7108

FAX (541) 535-8795

RE: 18-078G Medford ESD

Order No.: 1806457

Dear Dave Fawcett:

Neilson Research Corporation received 5 sample(s) on 6/12/2018 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:** 18-078G Medford ESD  
**Lab Order:** 1806457

**Date:** 22-Jun-18

## 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

ORELAP 100016  
EPA OR00028

## Analysis Report

**Coleman Creek Consulting**

810 Leonard St  
Ashland, OR 97520

Lab Order: **1806457**

Received Date: **6/12/2018 8:46:00 AM**  
Reported Date: **6/22/2018 2:14:43 PM**

Sample Information: 18-078G Medford ESD

**Lab ID: 1806457-01**

Collection Date: 6/12/2018 5:50:00 AM  
Matrix: DRINKING WATER

Client Sample ID: 18-078G.6  
Source  
Sample Location:

Trace Metals by EPA 200.8 ICP-MS					Dilution	Analyst: <b>JWC</b>	NELAP
Analyses	Result	Qual	MRL	Units	Factor	Date Analyzed	Accredited
<b>Copper</b>	<b>0.771</b>		0.0005	mg/L	1	6/13/2018	A
<b>Lead</b>	<b>0.000443</b>		0.0001	mg/L	1	6/13/2018	A

**Lab ID: 1806457-02**

Collection Date: 6/12/2018 5:53:00 AM  
Matrix: DRINKING WATER

Client Sample ID: 18-078G.7  
Source  
Sample Location:

Trace Metals by EPA 200.8 ICP-MS					Dilution	Analyst: <b>JWC</b>	NELAP
Analyses	Result	Qual	MRL	Units	Factor	Date Analyzed	Accredited
<b>Copper</b>	<b>0.227</b>		0.0005	mg/L	1	6/13/2018	A
<b>Lead</b>	<b>0.000713</b>		0.0001	mg/L	1	6/13/2018	A

**Lab ID: 1806457-03**

Collection Date: 6/12/2018 5:56:00 AM  
Matrix: DRINKING WATER

Client Sample ID: 18-078G.8  
Source  
Sample Location:

Trace Metals by EPA 200.8 ICP-MS					Dilution	Analyst: <b>JWC</b>	NELAP
Analyses	Result	Qual	MRL	Units	Factor	Date Analyzed	Accredited
<b>Copper</b>	<b>0.609</b>		0.0005	mg/L	1	6/13/2018	A
<b>Lead</b>	<b>0.00121</b>		0.0001	mg/L	1	6/13/2018	A

**Lab ID: 1806457-04**

Collection Date: 6/12/2018 6:02:00 AM  
Matrix: DRINKING WATER

Client Sample ID: 18-078G.9  
Source  
Sample Location:

Trace Metals by EPA 200.8 ICP-MS					Dilution	Analyst: <b>JWC</b>	NELAP
Analyses	Result	Qual	MRL	Units	Factor	Date Analyzed	Accredited
<b>Copper</b>	<b>0.576</b>		0.0005	mg/L	1	6/13/2018	A
<b>Lead</b>	<b>0.000783</b>		0.0001	mg/L	1	6/13/2018	A

**Lab ID: 1806457-05**

Collection Date: 6/12/2018 6:04:00 AM  
Matrix: DRINKING WATER

Client Sample ID: 18-078G.10  
Source  
Sample Location:

Trace Metals by EPA 200.8 ICP-MS					Dilution	Analyst: <b>JWC</b>	NELAP
Analyses	Result	Qual	MRL	Units	Factor	Date Analyzed	Accredited
<b>Copper</b>	<b>0.579</b>		0.0005	mg/L	1	6/13/2018	A
<b>Lead</b>	<b>0.00561</b>		0.0001	mg/L	1	6/13/2018	A

**Qualifiers:**

- |   |  |
|---|--|
| * Value exceeds Maximum Contaminant Level         | B Analyte detected in the associated Method Blank    |
| 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       |
| S Spike Recovery outside accepted recovery limits |  |

# Neilson Research Corporation

Date: 22-Jun-18

CLIENT: Coleman Creek Consulting  
 Work Order: 1806457  
 Project: 18-078G Medford ESD

## ANALYTICAL QC SUMMARY REPORT

TestCode: ICPMS\_200.8 SCHOOL

Sample ID	MB-41392	SampType: MBLK	TestCode: ICPMS_200.8	Units: mg/L	Prep Date: 6/13/2018	RunNo: 104181					
Client ID:	ZZZZZ	Batch ID: 41392	TestNo: EPA 200.8	(EPA 200.8)	Analysis Date: 6/13/2018	SeqNo: 1578627					
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-41392	SampType: LCS	TestCode: ICPMS_200.8	Units: mg/L	Prep Date: 6/13/2018	RunNo: 104181					
Client ID:	ZZZZZ	Batch ID: 41392	TestNo: EPA 200.8	(EPA 200.8)	Analysis Date: 6/13/2018	SeqNo: 1578628					
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Copper 0.08951 0.000500 0.1 0.000026 89.5 85 115  
 Lead 0.09364 0.000100 0.1 0.00001 93.6 85 115

Sample ID	1806454-01AMS	SampType: MS	TestCode: ICPMS_200.8	Units: mg/L	Prep Date: 6/13/2018	RunNo: 104181					
Client ID:	ZZZZZ	Batch ID: 41392	TestNo: EPA 200.8	(EPA 200.8)	Analysis Date: 6/13/2018	SeqNo: 1578647					
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Copper 0.08603 0.000500 0.1 0.000906 85.1 70 130  
 Lead 0.09231 0.000100 0.1 0.000141 92.2 70 130

Sample ID	1806454-01AMSD	SampType: MSD	TestCode: ICPMS_200.8	Units: mg/L	Prep Date: 6/13/2018	RunNo: 104181					
Client ID:	ZZZZZ	Batch ID: 41392	TestNo: EPA 200.8	(EPA 200.8)	Analysis Date: 6/13/2018	SeqNo: 1578648					
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Copper 0.08677 0.000500 0.1 0.000906 85.9 70 130 0.08603 0.859 20  
 Lead 0.09189 0.000100 0.1 0.000141 91.8 70 130 0.09231 0.454 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  
 243 South Grape Street \* Medford, OR 97501  
 (541) 770-5578 fax (541) 770-2901

# Chain of Custody Record

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

<b>Section A</b> Required Client Information		<b>Section B</b> Required Project Information		<b>Section C</b> Invoice Information		<b>Section D</b> Rush Status (Subject to Scheduling)	
Company:	Coleman Creek Consulting	Project Name:	Medford ESP	Attention:		Standard 10-14 Days	<input type="checkbox"/>
Address:	810 Leonard St Ashland, OR 97520	Project Number:	18-0789	Company Name:		5 Business Days (50% surcharge)	<input type="checkbox"/>
Email:	fawbro@ccountry.net	Report To:		Address:		3 Business Days (75% surcharge)	<input type="checkbox"/>
Phone:	(541) 535-7108 Fax: (541) 535-8795	Copy To:		P.O. #		24 - 48 hours (100% surcharge)	<input type="checkbox"/>
Collected By (Print):	David Fawcett					Other	<input type="checkbox"/>
Collected By (Sign):	<i>David Fawcett</i>						Authorized <input type="checkbox"/> Yes <input type="checkbox"/> No
Email Report <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No							
Fax Report <input type="checkbox"/> Yes <input type="checkbox"/> No							

Sample ID	Comp/Grab	Matrix*	Date Collected	Time Collected	No. of Containers	Analysis Requested	
18-0789-6	Grab	DW	6-12-18	0550	1		
7	↓	↓	↓	0553	1		
8	↓	↓	↓	0556	1		
9	↓	↓	↓	0602	1		
10	↓	↓	↓	0604	1		

<b>Section E</b> Sample Information		<b>Section F</b> Reinquinsh/Receive		<b>Section G</b> Lab Use Only	
*Matrix: DW - Drinking Water WW - Wastewater W - Water S - Soil/Solid SL - Sludge O - Oil WP - Wipe OT - Other		Reinquinsh By:	<i>David Fawcett</i>	Temp:	<i>Amb</i>
Sample ID	18-0789-6	Received By:	<i>David Fawcett</i>	4°C +/- 2°C:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Time Collected	0550	Reinquinsh By:	<i>David Fawcett</i>	Received on Ice:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Date Collected	6-12-18	Reinquinsh By:	<i>David Fawcett</i>	Number of Bottles Received:	5
Matrix	DW	Received By:	<i>David Fawcett</i>	pH Checked:	
Comp/Grab	Grab	Received By Laboratory:	<i>David Fawcett</i>	COC Seals Intact:	Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Date Collected	6-12-18			Field Blank Included:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Time Collected	0550			UPS	Amount
No. of Containers	1			FedEX	Amount
				Other	Amount
				Check#	