

Coleman Creek Consulting, Inc.

DRINKING WATER LEAD/COPPER SAMPLING OF KLAMATH FALLS ESD FACILITY 2685 FOOTHILLS BLVD, KLAMATH FALLS, 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 and copper drinking water sampling of the Klamath Falls ESD Facility at the above address. The purpose of the lead and copper 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 Klamath Falls ESD Facility on July 6, 2017, and met Susan Mostar. Mr. Fawcett collected a lead and copper drinking water sample from the hall drinking fountain. See Site Sample Record Sheet (page 3) for a description of the sample location area. The drinking water sample was collected in the morning, and Ms. Mostar indicated there had been minimal water usage in the facility prior to sampling. The sample was placed in a cooler and transported to Neilson Research Corporation for lead analysis.

LEAD ANALYSIS/COMPARISON WITH REGULATORY LIMITS

The drinking water sample collected was analyzed for lead using EPA Method 200.8.

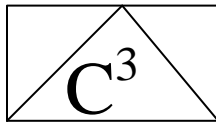
SAMPLE	DESCRIPTION/LOCATION	LEAD (mg/L)	ACTION LEVEL (mg/L)
17-077G.11	Front Hall Drinking Fountain	0.00162	0.015

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 Action Level of 0.015 mg/L.

COPPER ANALYSIS/COMPARISON WITH REGULATORY LIMITS

The drinking water sample collected was analyzed for copper using EPA Method 200.8.



Coleman Creek Consulting, Inc.

SAMPLE	DESCRIPTION/LOCATION	COPPER (mg/L)	ACTION LEVEL (mg/L)
17-077G.11	Front Hall Drinking Fountain	0.0143	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.

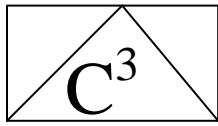
CONCLUSIONS

One water sample was collected from a representative drinking water source at the Klamath Falls ESD Facility at a time ensuring the drinking water source had been minimally in use. The water sample was analyzed for lead and copper, and was 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 Klamath Falls 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



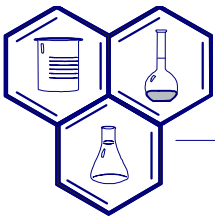
Coleman Creek Consulting, Inc.

DRINKING WATER LEAD/COPPER SAMPLE RECORD SHEET

FACILITY: Klamath Falls ESD Facility
ADDRESS: 2685 Foothills Blvd.
Klamath Falls, Oregon

DATE: 07-06-17
SAMPLER: David W. Fawcett

SAMPLE #	SOURCE DESCRIPTION	LOCATION	COLLECTION TIME
17-077G.11	Drinking Fountain	Front Hall	0718



NEILSON RESEARCH CORPORATION

Environmental Testing Laboratory

7/14/2017

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

TEL: (541) 535-7108

FAX (541) 535-8795

RE: 17-077G SO ESD

Order No.: 1707185

Dear Dave Fawcett:

Neilson Research Corporation received 1 sample(s) on 7/6/2017 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 SO ESD
Lab Order: 1707185

Date: 14-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

Sample Information: 17-077G SO ESD

Lab Order: 1707185

Received Date: 7/6/2017 10:00:00 AM

Reported Date: 7/14/2017 8:04:56 AM

Lab ID: 1707185-01

Collection Date: 7/6/2017 7:18:00 AM

Matrix: DRINKING WATER

Client Sample ID: 17-077G.11

Source

Sample Location:

Trace Metals by EPA 200.8 ICP-MS						Analyst: OML	NELAP
Analyses	Result	Qual	MRL	Units	Dilution Factor	Date Analyzed	Accredited
Copper	0.0143		0.0005	mg/L	1	7/7/2017	A
Lead	0.00162		0.0001	mg/L	1	7/7/2017	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: 1707185
Project: 17-077G SO ESD

ANALYTICAL QC SUMMARY REPORT

TestCode: ICPMS_200.8_DW

Sample ID MB-38655	SampType: MBLK	TestCode: ICPMS_200.8	Units: mg/L	Prep Date: 7/7/2017	RunNo: 96423						
Client ID: ZZZZZ	Batch ID: 38655	TestNo: EPA 200.8	(EPA 200.8)	Analysis Date: 7/7/2017	SeqNo: 1459475						
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-38655	SampType: LCS	TestCode: ICPMS_200.8	Units: mg/L	Prep Date: 7/7/2017	RunNo: 96423						
Client ID: ZZZZZ	Batch ID: 38655	TestNo: EPA 200.8	(EPA 200.8)	Analysis Date: 7/7/2017	SeqNo: 1459476						
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Copper	0.1033	0.000500	0.1	0	103	85	115				
Lead	0.1016	0.000100	0.1	0	102	85	115				

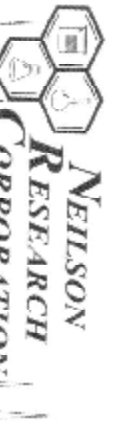
Sample ID 1707110-01BMS	SampType: MS	TestCode: ICPMS_200.8	Units: mg/L	Prep Date: 7/7/2017	RunNo: 96423						
Client ID: ZZZZZ	Batch ID: 38655	TestNo: EPA 200.8	(EPA 200.8)	Analysis Date: 7/7/2017	SeqNo: 1459489						
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Copper	0.3945	0.000500	0.1	0.3073	87.1	70	130				
Lead	0.1006	0.000100	0.1	0.00089	99.7	70	130				

Sample ID 1707110-01BMSD	SampType: MSD	TestCode: ICPMS_200.8	Units: mg/L	Prep Date: 7/7/2017	RunNo: 96423						
Client ID: ZZZZZ	Batch ID: 38655	TestNo: EPA 200.8	(EPA 200.8)	Analysis Date: 7/7/2017	SeqNo: 1459490						
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Copper	0.3901	0.000500	0.1	0.3073	82.8	70	130	0.3945	1.12	20	
Lead	0.09891	0.000100	0.1	0.00089	98.0	70	130	0.1006	1.73	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.

Section A

Required Client Information

Company: Chama Corp.
 Address: _____
 Email: _____ Fax: _____
 Phone: _____
 Collected By (Print): David Fawcett
 Collected By (Sign): [Signature]
 Email Report Yes No Mail Report Yes No
 Fax Report Yes No

Section B

Required Project Information

Project Name: 5058D
 Report Number: 17-0776
 Report To: _____
 Copy To: _____
 P O # _____

Section C

Invoice Information

Attention: _____
 Company Name: _____
 Address: _____
 P O # _____

Section D

Rush Status (Subject to Scheduling)

Standard 10-14 Days
 5 Business Days (50% surcharge)
 3 Business Days (75% surcharge)
 24 - 48 hours (100% surcharge)
 Other _____
 Authorized Yes No

Section E

Sample Information

Sample ID	Comp/Grab	Matrix	Date Collected	Time Collected	No. of Containers	Analysis Requested
17-0776.11	Grab	WW	7-6-17	0719	1	Pb/Cd

*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:	Sign	Print	Date	Time
Received By: <u>[Signature]</u>	<u>[Signature]</u>	<u>David Fawcett</u>	<u>7-6-17</u>	<u>1600</u>
Relinquished By: _____	_____	_____	_____	_____
Received By: _____	_____	_____	_____	_____
Relinquished By: _____	_____	_____	_____	_____
Received By: _____	_____	_____	_____	_____
Relinquished By: _____	_____	_____	_____	_____
Received By: <u>[Signature]</u>	<u>[Signature]</u>	<u>Tanna Schneiderman</u>	<u>7-6-17</u>	<u>16:00</u>

Section G

Lab Use Only

NRC Workorder # 1707185 NRC Sample # 01
 (Lab Use Only)
 Remarks/Field Data
 Temp: amb.
 4°C +/- 2°C: Yes No
 Received on Ice: Yes No
 Number of Bottles Received: 1
 pH Checked: NA
 COC Seals Intact: Yes No
 Field Blank Included: Yes No
 Received Via UPS FedEx Other Hand
 Payment Invoice Cash VISA, M/C Check # Amount: