Coleman Creek Consulting, Inc.

DRINKING WATER LEAD SAMPLING

OF

GRANTS PASS REGIONAL ESD FACILITY

409 NW 3RD STREET, 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 and copper drinking water sampling of the Grants Pass Regional 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. In 2017, Education Service Districts were required to adopt a Healthy and Safe Schools Plan, including provisions for testing and reducing exposure to elevated levels of lead in water used for drinking and food preparation.

LEAD DRINKING WATER SAMPLING REQUIREMENTS

Guidelines for sampling lead in water were established by the Oregon Health Authority. Water sampling is to occur after water sits overnight in the pipes without being used, and must be sampled after a day occupied by students or building occupants. All water sources are to be sampled, with the exception of water used for heating, sanitation, irrigation, and science sinks for grades 6 and up with non-potable water signs. Initial testing is required to be performed by 2020, and every 6 years thereafter, according to a testing schedule determined by the Oregon Department of Education.

DRINKING WATER SAMPLING

David W. Fawcett of CCC visited the Grants Pass Regional ESD Facility on October 5, 2019. Mr. Fawcett collected a lead and copper drinking water sample from the drinking water sources identified in the facility. See Site Sample Record Sheets (page 3-6) for a description of the drinking water sources sampled. See Drinking Water Sample Location Diagram in Appendix A for a visual review of all drinking water sample locations. The drinking water samples were collected in the early morning, ensuring that the sample source had not been in use since the previous day. The sample was placed in a cooler and transported to Neilson Research Corporation for lead analysis.

DRINKING WATER LEAD RESULTS AND TESTING SUMMARY SHEET

The four drinking water samples collected were analyzed for lead using EPA Method 200.8. See Neilson Research Corporation Analytical Report in Appendix B. A Drinking Water Testing Summary Sheet (page 7) indicates the lead in drinking water concentrations for samples collected from the kitchen sink and blue bath sink were reported with 0.716 and 0.243 parts per billion (ppb). The White

Bath sink faucet was reported with 19.4 ppb lead, and the Storage Room sink faucet was reported with 19.1 ppb lead, with both samples above than the 15 ppb lead action level.

STORAGE ROOM SINK FAUCET REPLACEMENT AND RE-SAMPLE RESULTS

The Storage Room sink faucet was replaced, and the new faucet re-sampled November 16, 2019. The re-sampled faucet was reported with 36.6 ppb lead. The Storage Room faucet was removed, the line permanently capped, and the fixture removed from service.

WHITE BATH SINK FAUCET REPLACEMENT AND RE-SAMPLE RESULTS

The White Bath sink faucet was replaced, and the new faucet re-sampled November 16, 2019. The re-sampled faucet was reported with 34.3 ppb lead. The White Bath sink faucet was re-sampled December 7, 2019, with both an initial sample and flush sample collected. The re-sampled faucet was reported with 23.6 ppb lead. The flush sample was reported with 0.328 ppb lead. The White Bath sink faucet was flushed repeatedly, and re-sampled January 31, 2020. The re-sampled faucet was reported with 27.1 ppb lead. The White Bath sink faucet was removed, the line permanently capped, and the fixture removed from service.

CONCLUSIONS

Four drinking water locations were sampled from drinking water sources at the Grants Pass Regional ESD Facility prior to use that day by building occupants, and after a day the facility was occupied. Two of the sample locations were reported with concentrations below the 15 ppb lead action level in water. Two locations sampled (Storage Room sink faucet and White Bath sink faucet) were reported above the 15 ppb lead action level, and were capped and removed from service.

RECOMMENDATIONS

Coleman Creek Consulting, Inc. recommends future drinking water sampling at the Grants Pass Regional ESD Facility according to the schedule set out by the Oregon Department of Education. 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

DRINKING WATER LEAD/COPPER SAMPLE RECORD SHEET

FACILITY: Grants Pass Regional Office
ADDRESS: 409 NW 3rd Street
Grants Pass, Oregon

DATE: 10-05-19
SAMPLER: David W. Fawcett

SAMPLE #	SOURCE DESCRIPTION	LOCATION	COLLECTION TIME
19-104G.GPR1	Sink Faucet	Kitchen	0732
19-104G.GPR2	Sink Faucet	Blue Bath	0734
19-104G.GPR3	Sink Faucet	White Bath	0735
19-104G.GPR4	Sink Faucet	Storage Room	0738

DRINKING WATER LEAD/COPPER SAMPLE RECORD SHEET

FACILITY: Grants Pass Regional Office
ADDRESS: 409 NW 3rd Street
Grants Pass, Oregon

DATE: 11-16-19
SAMPLER: David W. Fawcett

SAMPLE #	SOURCE DESCRIPTION	LOCATION	COLLECTION TIME
19-104G.GPR5	Sink Faucet	White Bath	0903
19-104G.GPR6	Sink Faucet	Storage Room	0905

DRINKING WATER LEAD/COPPER SAMPLE RECORD SHEET

FACILITY: Grants Pass Regional Office
ADDRESS: 409 NW 3rd Street
Grants Pass, Oregon

DATE: 12-07-19
SAMPLER: David W. Fawcett

SAMPLE #	SOURCE DESCRIPTION	LOCATION	COLLECTION TIME
19-104G.GPR7	Sink Faucet	White Bath, 1st Sample	0821
19-104G.GPR8	Sink Faucet	White Bath, Flush Sample	0823

DRINKING WATER LEAD/COPPER SAMPLE RECORD SHEET

FACILITY: Grants Pass Regional Office
ADDRESS: 409 NW 3rd Street
Grants Pass, Oregon

DATE: 01-31-20
SAMPLER: David W. Fawcett

SAMPLE #	SOURCE DESCRIPTION	LOCATION	COLLECTION TIME
19-104G.GPR9	Sink Faucet	White Bath	0645

DRINKING WATER TESTING SUMMARY SHEET

DISTRICT NAME: Southern Oregon Education Service District
DISTRICT ID#: 2025
SCHOOL NAME: Grants Pass Regional
BUILDING NAME: Grants Pass Regional Office
BUILDING ID#: 20250007

Sample Number	Fixture Location Description	Fixture ID#	Test Date	Test Result (ppb)	# Retest	Final Result (ppb)
19-104G.GPR1	Kitchen Sink	KF	10-05-19	0.716		
19-104G.GPR2	Blue Bath Sink	BF	10-05-19	0.243		
19-104G.GPR3	White Bath Sink	BF	10-05-19	19.4	4	27.1**
19-104G.GPR4	Storage Room Sink	SF	10-05-19	19.1	1	36.6**

Fixture ID Coding:

DW = Drinking Water Fountain WC = Water Cooler WB = Water Bottle Filler
CF = Classroom Faucet BF = Bathroom Faucet SF = Staff/Office Faucet
KF = Kitchen/Food Prep OS = Outside Spigot OT = Other (Specify)

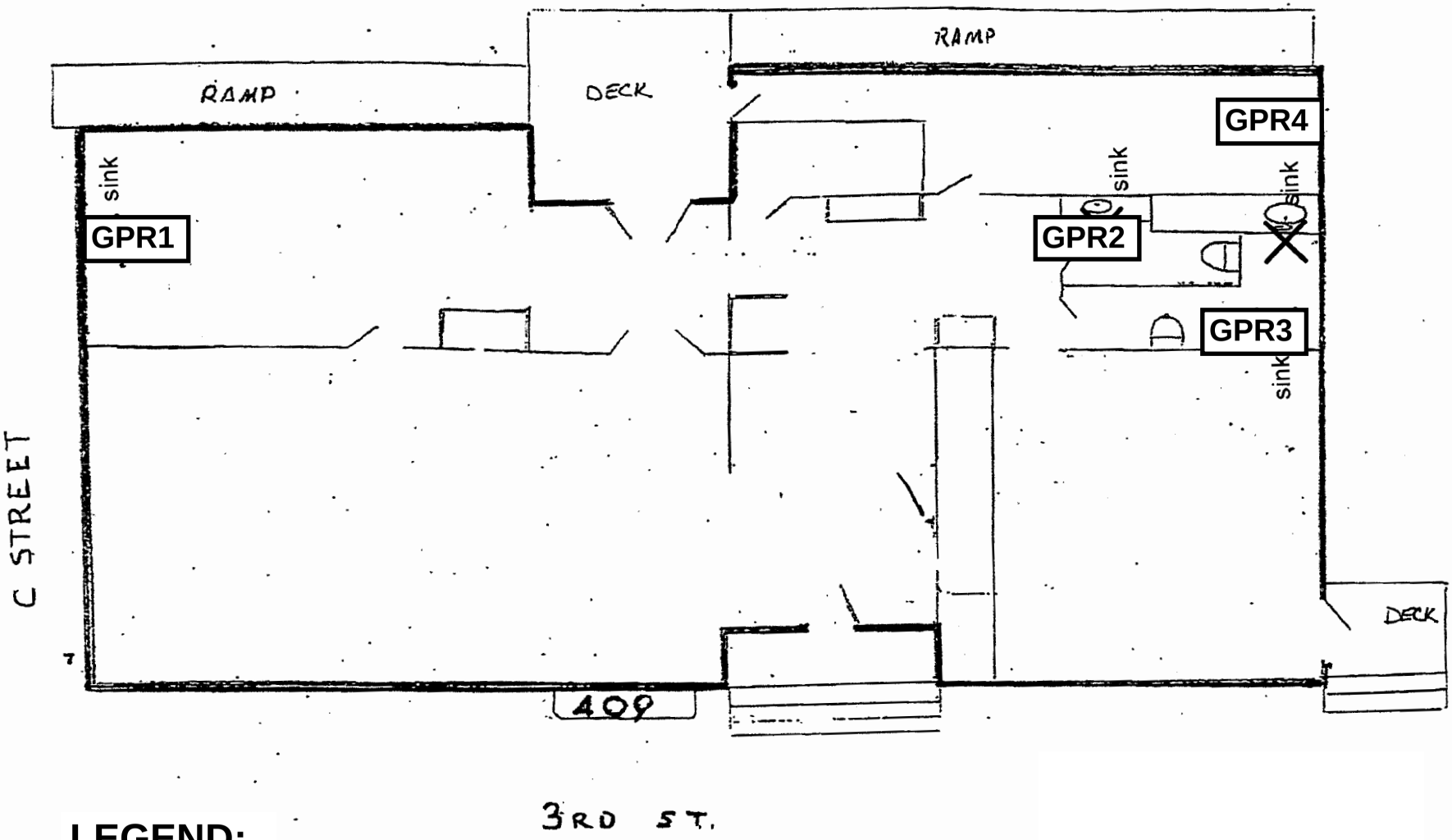
**Indicates fixture permanently removed from use

APPENDIX A

DRINKING WATER SAMPLE LOCATION DIAGRAM

DRINKING WATER SAMPLE LOCATION DIAGRAM

Grants Pass Regional - 409 NW 3rd Street, Grants Pass



LEGEND:

GPR2 **=Drinking Water Sample Location**

APPENDIX B

NEILSON RESEARCH CORPORATION
ANALYTICAL REPORT

Neilson Research Corporation
245 S Grape St
Medford, OR 97501
TEL: (541) 770-5678 FAX: (541) 770-2901
Website: www.nrclabs.com

October 15, 2019

Dave Fawcett
Coleman Creek Consulting
810 Leonard St
Ashland, OR 97520
TEL: (541) 535-7108
FAX: (541) 535-8795

RE: 19-104G GP-Regional Order No.: 19100322

Dear Dave Fawcett:

Neilson Research Corporation received 4 sample(s) on 10/7/2019 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 Schmedemann
Senior Project Manager
245 S Grape St
Medford, OR 97501

Original

Neilson Research Corporation
245 S Grape St
Medford, OR 97501
TEL: (541) 770-5678 FAX: (541) 770-2901
Website: www.nrclabs.com

Case Narrative

WO#: **19100322**
Date: **10/15/2019**

CLIENT: Coleman Creek Consulting
Project: 19-104G GP-Regional

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.

Original

NEILSON RESEARCH CORPORATION

Neilson Research Corporation
245 S Grape St
Medford, OR 97501
TEL: (541) 770-5678 FAX: (541) 770-2901
Website: www.nrclabs.com

Analytical Report

WO#: **19100322**
Date Reported: **10/15/2019**

Coleman Creek Consulting
810 Leonard St
Ashland , OR 97520

Lab Order: 19100322
Received Date: 10/7/2019 11:13:00 AM
Reported Date: 10/15/2019 9:09:44 AM

Sample Information:

Lab ID: **19100322-01** Client Sample ID: 19-104G.GPR1
Collection Date: 10/5/2019 7:32:00 AM Collected By: David Faucett
Matrix: Drinking Water Sample Location: Grab

Trace Metals by EPA 200.8 ICP-MS — Analyst; SJS

Analyses	Result	Qual	MRL	Units	DF	Date Analyzed	MCL	NELAP Status
Copper	29.3		0.515	µg/L	1	10/9/2019	1300	A
Lead	0.716		0.103	µg/L	1	10/9/2019	15.0	A

Lab ID: **19100322-02** Client Sample ID: 19-104G.GPR2
Collection Date: 10/5/2019 7:34:00 AM Collected By: David Faucett
Matrix: Drinking Water Sample Location: Grab

Trace Metals by EPA 200.8 ICP-MS — Analyst; SJS

Analyses	Result	Qual	MRL	Units	DF	Date Analyzed	MCL	NELAP Status
Copper	676		0.515	µg/L	1	10/9/2019	1300	A
Lead	0.243		0.103	µg/L	1	10/9/2019	15.0	A

Lab ID: **19100322-03** Client Sample ID: 19-104G.GPR3
Collection Date: 10/5/2019 7:35:00 AM Collected By: David Faucett
Matrix: Drinking Water Sample Location: Grab

Trace Metals by EPA 200.8 ICP-MS — Analyst; SJS

Analyses	Result	Qual	MRL	Units	DF	Date Analyzed	MCL	NELAP Status
Copper	28.9		0.515	µg/L	1	10/9/2019	1300	A
Lead	19.4	*	0.103	µg/L	1	10/9/2019	15.0	A

QUALIFIERS

*	Value exceeds Maximum Contaminant Level.
E	Value above quantitation range
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits
C1	Sample container temperature is out of limit as specified at testcode
H	Holding times for preparation or analysis exceeded
MI	Recovery outside comtrol limits due to Matrix Interference
PL	Permit Limit

Results are out of the EPA limits

Original

NEILSON RESEARCH CORPORATION

Neilson Research Corporation
245 S Grape St
Medford, OR 97501
TEL: (541) 770-5678 FAX: (541) 770-2901
Website: www.nrclabs.com

Analytical Report

WO#: **19100322**
Date Reported: **10/15/2019**

Coleman Creek Consulting
810 Leonard St
Ashland , OR 97520

Lab Order: 19100322
Received Date: 10/7/2019 11:13:00 AM
Reported Date: 10/15/2019 9:09:44 AM

Sample Information:

Lab ID: **19100322-04** Client Sample ID: 19-104G.GPR4
Collection Date: 10/5/2019 7:38:00 AM Collected By: David Faucett
Matrix: Drinking Water Sample Location: Grab

Trace Metals by EPA 200.8 ICP-MS — Analyst; SJS

Analyses	Result	Qual	MRL	Units	DF	Date Analyzed	MCL	NELAP Status
Copper	1040		5.15	µg/L	10	10/10/2019	1300	A
Lead	19.1	*	0.103	µg/L	1	10/9/2019	15.0	A

QUALIFIERS

*	Value exceeds Maximum Contaminant Level.
E	Value above quantitation range
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits
C1	Sample container temperature is out of limit as specified at testcode
H	Holding times for preparation or analysis exceeded
MI	Recovery outside comtrol limits due to Matrix Interference
PL	Permit Limit

Results are out of the EPA limits

Original

NEILSON RESEARCH CORPORATION

Neilson Research Corporation
245 S Grape St
Medford, OR 97501
TEL: (541) 770-5678 FAX: (541) 770-2901
Website: www.nrclabs.com

QC SUMMARY REPORT

WO#: **19100322**

15-Oct-19

Client: Coleman Creek Consulting
Project: 19-104G GP-Regional

TestCode: **ICPMS_200.8_DW**

Sample ID: **MB-2037**	SampType: **MBLK**	TestCode: **ICPMS_200.8**	Units: **µg/L**	Prep Date: **10/9/2019**	RunNo: **4738**
Client ID: **PBW**	Batch ID: **2037**	TestNo: **E200.8**	**E200.8**	Analysis Date: **10/9/2019**	SeqNo: **91888**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	ND	0.515									
Lead	ND	0.103									

Sample ID: **LCS-2037**	SampType: **LCS**	TestCode: **ICPMS_200.8**	Units: **µg/L**	Prep Date: **10/9/2019**	RunNo: **4738**
Client ID: **LCSW**	Batch ID: **2037**	TestNo: **E200.8**	**E200.8**	Analysis Date: **10/9/2019**	SeqNo: **91889**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	97.4	0.515	100	0	97.4	85	115				
Lead	102	0.103	100	0	102	85	115				

Sample ID: **19100322-03AMS**	SampType: **MS**	TestCode: **ICPMS_200.8**	Units: **µg/L**	Prep Date: **10/9/2019**	RunNo: **4738**
Client ID: **19-104G.GPR3**	Batch ID: **2037**	TestNo: **E200.8**	**E200.8**	Analysis Date: **10/9/2019**	SeqNo: **91908**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	125	0.520	100	28.9	96.4	70	130				
Lead	121	0.104	100	19.4	101	70	130				

Sample ID: **19100322-03AMSD**	SampType: **MSD**	TestCode: **ICPMS_200.8**	Units: **µg/L**	Prep Date: **10/9/2019**	RunNo: **4738**
Client ID: **19-104G.GPR3**	Batch ID: **2037**	TestNo: **E200.8**	**E200.8**	Analysis Date: **10/9/2019**	SeqNo: **91909**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	128	0.520	100	28.9	98.6	70	130	125	1.80	20	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	C1	Sample container temperature is out of limit as specified at testcode	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	MI	Recovery outside comtrol limits due to Matrix Interference	ND	Not Detected at the Reporting Limit
PL	Permit Limit	RL	Reporting Detection Limit		

Original

NEILSON RESEARCH CORPORATION

Neilson Research Corporation
245 S Grape St
Medford, OR 97501
TEL: (541) 770-5678 FAX: (541) 770-2901
Website: www.nrclabs.com

QC SUMMARY REPORT

WO#: **19100322**

15-Oct-19

Client: Coleman Creek Consulting
Project: 19-104G GP-Regional

TestCode: **ICPMS_200.8_DW**

Sample ID:	**19100322-03AMSD**	SampType:	**MSD**	TestCode:	**ICPMS_200.8**	Units:	**µg/L**	Prep Date:	**10/9/2019**	RunNo:	**4738**
Client ID:	**19-104G.GPR3**	Batch ID:	**2037**	TestNo:	**E200.8**		**E200.8**	Analysis Date:	**10/9/2019**	SeqNo:	**91909**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	120	0.104	100	19.4	101	70	130	121	0.0354	20	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	C1	Sample container temperature is out of limit as specified at testcode	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	MI	Recovery outside comtrol limits due to Matrix Interference	ND	Not Detected at the Reporting Limit
PL	Permit Limit	RL	Reporting Detection Limit		

Original

NEILSON RESEARCH CORPORATION
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:	Coleman Creek Consulting
Address:	810 Leonard St
	Ashland, OR 97520
Email:	fawbro@ccountry.net
Phone:	(541) 535-7108 Fax: (541) 535-8795
Collected By (Print):	David Fawcett
Collected By (Sign):	
Email Report	X Yes ___ No
Mail Report	X Yes ___ No
Fax Report	___ Yes ___ No

Section B Required Project Information

Project Name:	GP-Regional
Project Number:	19-104G
Report To:	Dave Fawcett
Copy To:	

Section C Invoice Information

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

Section D Rush Status (Subject to Scheduling)

- X 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

NRC Workorder # (Lab Use Only): 19100322

Page 1 of 1 Sample ID	Comp/Grab	Matrix*	Date Collected	Time Collected	No. of Containers	Analysis Requested: Pb/Cu	Remarks/Field Data	NRC Sample # (Lab Use Only)
19-104G-GPR1	Grab	DW	10-5-19	0732	1	X		01A
GPR2	↓	/	/	0734	1	X		02A
GPR3				0735	1	X		03A
GPR4	↓	↓	↓	0738	1	X		04A

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

Section F Relinquish/Receive

	Sign	Print	Date	Time
Relinquished By:		David W Fawcett	10-7-19	1113
Received By:				
Relinquished By:				
Received By:				
Relinquished By:				
Received By Laboratory:		MICHELE RUSH	10/7/19	1113

Section G Lab Use Only

Temp:	0.1 °C
4°C +/- 2°C:	___ Yes ___ No
Received on Ice:	___ Yes ___ No
Number of Bottles Received:	4
pH Checked:	
COC Seals Intact:	___ Yes ___ No ___ NA
Field Blank Included:	___ Yes ___ No

Received Via ___ UPS ___ FedEX ___ Other X Hand

Payment: X Invoice ___ Cash ___ VISA, M/C ___ Check # ___ Amount ___

NEILSON RESEARCH CORPORATION

Neilson Research Corporation
245 S Grape St
Medford, OR 97501
TEL: (541) 770-5678 FAX: (541) 770-2901
Website: www.nrclabs.com

Data Flags

WO#: **19100322**
Date: **10/15/2019**

B Analyte detected in the associated method blank.
BA BOD Alternative Calculation: The initial results performed by Standard Methods did not fall within parameters of the Standard Methods calculation. An alternate approved calculation was performed using the HACH method and the value reported is an estimated concentration.
C Sample(s) does not meet NELAP/ORELAP sample acceptance criteria. See Case Narrative.
C1 Sample(s) does not meet NELAP/ORELAP sample acceptance criteria for temperature.
CF Results confirmed by re-analysis.
CU Cleanup performed as specified by method.
D1 The diesel elution pattern for the sample is not typical.
D2 The sample appears to be a heavier hydrocarbon range than diesel.
D3 The sample appears to be a lighter hydrocarbon range than diesel.
D4 Detected hydrocarbons do not have pattern and range consistent with typical petroleum products and may be due to biogenic interference.
D5 Detected hydrocarbons in the diesel range appear to be weathered diesel.
E Estimated value.
ER Elevated reporting limit due to matrix. Report limits (MDLs, MRLs & PQLs) are adjusted based on variations in sample preparation amounts, analytical dilutions, and percent solids, where applicable.
FC Fecal Coliforms: Sample(s) received past 40 CFR Part 136 specified holding time. Results reported as estimated values.
G1 The gasoline elution pattern for the sample is not typical.
G2 The sample appears to be a heavier hydrocarbon range than gasoline.
G3 The sample appears to be a lighter hydrocarbon range than gasoline.
G4 Detected hydrocarbons in the gasoline range appear to be weathered gasoline.
HP Sample re-analysis performed outside of method specified holding time.
HR Sample received outside of method specified holding time.
HS Sample analyzed for volatile organics contained headspace.
HT At the client's request, the sample was analyzed outside of method specified holding time.
H Analysis performed outside of method specified holding time.
J Analyte detected below the Minimum Reporting Limit (MRL) and above the Method Detection Limit (MDL). The J flag result is an estimated value and the user should be aware that this data is of limited reliability.
L Dissolved metals were not filtered within 15 minutes of collection per 40 CFR Part 136.
MI Surrogate, Duplicate Sample (DUP) or Matrix Spikes recoveries are out of control limits due to matrix interference. Sample results may be biased.
N See Case Narrative on page 2 of report.
NLR No Legionella Recovered.
PLR Presence of Legionella Recovered.
Q Initial calibration verification (ICV), continuing calibration verification (CCV) or laboratory control sample (LCS) exceeded high recovery limits, but associated samples are non-detect and the sample results are not affected. Data meets EPA/NELAP requirements.
R Relative percent difference (RPD) is outside of the accepted recovery limits.
R1 Relative percent difference (RPD) is outside of the accepted recovery limits. However, analyses are not controlled on RPD values for sample concentrations that are less than the reporting limit.
R3 The relative percent difference (RPD) and/or percent recovery for the duplicate (DUP) or matrix spike (MS)/matrix spike duplicate (MSD) cannot be accurately calculated due to the concentration of analyte already present in the sample.
R4 Duplicate analysis failed due to result being at or near the method reporting limit.
S Surrogate and/or matrix spike recovery is outside of the accepted recovery limits. Sample results may be biased.
S1 Surrogate or matrix spike recovery is outside of control limits due to dilution necessary for analysis.
SC Sub-contracted to another laboratory for analysis.
SP Sample(s) were not collected per EPA Method 5035A protocols. The results are considered minimum values.
Value exceeds regulatory level for TCLP contaminant.
X1 The motor oil elution pattern for the sample is not typical.
X2 The sample appears to be a heavier hydrocarbon range than motor oil.
X3 The sample appears to be a lighter hydrocarbon range than motor oil.
* Value exceeds Maximum Contaminant Level or is outside the acceptable range.

Neilson Research Corporation
245 S Grape St
Medford, OR 97501
TEL: (541) 770-5678 FAX: (541) 770-2901
Website: www.nrclabs.com

November 25, 2019

Dave Fawcett
Coleman Creek Consulting
810 Leonard St
Ashland, OR 97520
TEL: (541) 535-7108
FAX: (541) 535-8795

RE: GP-Regional 19-104G Order No.: 19110673

Dear Dave Fawcett:

Neilson Research Corporation received 2 sample(s) on 11/18/2019 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 Schmedemann

Tamra Schmedemann
Senior Project Manager
245 S Grape St
Medford, OR 97501

Original

Neilson Research Corporation
245 S Grape St
Medford, OR 97501
TEL: (541) 770-5678 FAX: (541) 770-2901
Website: www.nrclabs.com

Case Narrative

WO#: **19110673**
Date: **11/25/2019**

CLIENT: Coleman Creek Consulting
Project: GP-Regional 19-104G

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.

Original

NEILSON RESEARCH CORPORATION

Neilson Research Corporation
245 S Grape St
Medford, OR 97501
TEL: (541) 770-5678 FAX: (541) 770-2901
Website: www.nrclabs.com

Analytical Report

WO#: **19110673**
Date Reported: **11/25/2019**

Coleman Creek Consulting
810 Leonard St
Ashland , OR 97520

Lab Order: 19110673
Received Date: 11/18/2019 9:23:00 AM
Reported Date: 11/25/2019 4:13:46 PM

Sample Information:

Lab ID: **19110673-01** Client Sample ID: 19-104G.GPR5
Collection Date: 11/16/2019 9:03:00 AM Collected By: David Fawcett
Matrix: Drinking Water Sample Location: Grab

Trace Metals by EPA 200.8 ICP-MS — Analyst; SJS

Analyses	Result	Qual	MRL	Units	DF	Date Analyzed	MCL	NELAP Status
Copper	31.4		0.515	µg/L	1	11/20/2019	1300	A
Lead	34.3	*	0.103	µg/L	1	11/20/2019	15.0	A

Lab ID: **19110673-02** Client Sample ID: 19-104G.GPR6
Collection Date: 11/16/2019 9:05:00 AM Collected By: David Fawcett
Matrix: Drinking Water Sample Location: Grab

Trace Metals by EPA 200.8 ICP-MS — Analyst; SJS

Analyses	Result	Qual	MRL	Units	DF	Date Analyzed	MCL	NELAP Status
Copper	820		0.515	µg/L	1	11/20/2019	1300	A
Lead	36.6	*	0.103	µg/L	1	11/20/2019	15.0	A

QUALIFIERS

*	Value exceeds Maximum Contaminant Level.	C1	Sample container temperature is out of limit as specified at testcode
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MI	Recovery outside comtrol limits due to Matrix Interference
ND	Not Detected at the Reporting Limit	PL	Permit Limit
R	RPD outside accepted recovery limits		

Results are out of the EPA limits

Original

NEILSON RESEARCH CORPORATION

Neilson Research Corporation
245 S Grape St
Medford, OR 97501
TEL: (541) 770-5678 FAX: (541) 770-2901
Website: www.nrclabs.com

QC SUMMARY REPORT

WO#: **19110673**

25-Nov-19

Client: Coleman Creek Consulting
Project: GP-Regional 19-104G

TestCode: **ICPMS_200.8_DW**

Sample ID:	**MB-2429**	SampType:	**MBLK**	TestCode:	**ICPMS_200.8**	Units:	**µg/L**	Prep Date:	**11/20/2019**	RunNo:	**5792**
Client ID:	**PBW**	Batch ID:	**2429**	TestNo:	**E200.8**	**E200.8**		Analysis Date:	**11/20/2019**	SeqNo:	**109499**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	ND	0.515									
Lead	ND	0.103									

Sample ID:	**LCS-2429**	SampType:	**LCS**	TestCode:	**ICPMS_200.8**	Units:	**µg/L**	Prep Date:	**11/20/2019**	RunNo:	**5792**
Client ID:	**LCSW**	Batch ID:	**2429**	TestNo:	**E200.8**	**E200.8**		Analysis Date:	**11/20/2019**	SeqNo:	**109500**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	113	0.520	100	0	113	85	115				
Lead	110	0.104	100	0	110	85	115				

Sample ID:	**19110578-05AMS**	SampType:	**MS**	TestCode:	**ICPMS_200.8**	Units:	**µg/L**	Prep Date:	**11/20/2019**	RunNo:	**5792**
Client ID:	**BatchQC**	Batch ID:	**2429**	TestNo:	**E200.8**	**E200.8**		Analysis Date:	**11/20/2019**	SeqNo:	**109511**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	165	0.520	100	72.0	93.2	70	130				
Lead	99.2	0.104	100	1.06	98.1	70	130				

Sample ID:	**19110578-05AMSD**	SampType:	**MSD**	TestCode:	**ICPMS_200.8**	Units:	**µg/L**	Prep Date:	**11/20/2019**	RunNo:	**5792**
Client ID:	**BatchQC**	Batch ID:	**2429**	TestNo:	**E200.8**	**E200.8**		Analysis Date:	**11/20/2019**	SeqNo:	**109514**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	166	0.520	100	72.0	93.7	70	130	165	0.269	20	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	C1	Sample container temperature is out of limit as specified at testcode	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	MI	Recovery outside comtrol limits due to Matrix Interference	ND	Not Detected at the Reporting Limit
PL	Permit Limit	RL	Reporting Detection Limit		

Original

NEILSON RESEARCH CORPORATION

Neilson Research Corporation
245 S Grape St
Medford, OR 97501
TEL: (541) 770-5678 FAX: (541) 770-2901
Website: www.nrclabs.com

QC SUMMARY REPORT

WO#: **19110673**

25-Nov-19

Client: Coleman Creek Consulting
Project: GP-Regional 19-104G

TestCode: **ICPMS_200.8_DW**

Sample ID: **19110578-05AMSD** SampType: **MSD** TestCode: **ICPMS_200.8** Units: **µg/L** Prep Date: **11/20/2019** RunNo: **5792**
Client ID: **BatchQC** Batch ID: **2429** TestNo: **E200.8** **E200.8** Analysis Date: **11/20/2019** SeqNo: **109514**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	97.0	0.104	100	1.06	95.9	70	130	99.2	2.25	20	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	C1	Sample container temperature is out of limit as specified at testcode	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	MI	Recovery outside comtrol limits due to Matrix Interference	ND	Not Detected at the Reporting Limit
PL	Permit Limit	RL	Reporting Detection Limit		

Original

NEILSON RESEARCH CORPORATION
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:	Coleman Creek Consulting
Address:	810 Leonard St
	Ashland, OR 97520
Email:	fawbro@ccountry.net
Phone:	(541) 535-7108 Fax: (541) 535-7795
Collected By (Print):	David Fawcett
Collected By (Sign):	
Email Report	X Yes ___ No
Mail Report	X Yes ___ No
Fax Report	___ Yes ___ No

Section B
Required Project Information

Project Name:	GP-Regional
Project Number:	19-104G
Report To:	
Copy To:	

Section C
Invoice Information

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

Section D
Rush Status (Subject to Scheduling)

- X 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: Pb/Cu	Remarks/Field Data	NRC Sample # (Lab Use Only)
19-104G.GPR5	Grab	DW	11-16-19	0903	1	X		
GPR6	Grab	DW	11-16-19	0905	1	X		

NRC Workorder # (Lab Use Only): 1911067 3

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

Section F
Relinquish/Receive

	Sign	Print	Date	Time
Relinquished By:		David W. Fawcett	11-18-19	0923
Received By:				
Relinquished By:				
Received By:				
Relinquished By:				
Received By Laboratory:		Mail-in Rush	11/18/19	923

Section G
Lab Use Only

Temp:	2.1°C
4°C +/- 2°C:	___ Yes ___ No
Received on Ice:	___ Yes X No
Number of Bottles Received:	2
pH Checked:	
COC Seals Intact:	___ Yes ___ No ___ NA
Field Blank Included:	___ Yes ___ No

Received Via ___ UPS ___ FedEX ___ Other X Hand

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

NEILSON RESEARCH CORPORATION

Neilson Research Corporation
245 S Grape St
Medford, OR 97501
TEL: (541) 770-5678 FAX: (541) 770-2901
Website: www.nrclabs.com

Data Flags

WO#: **19110673**
Date: **11/25/2019**

B Analyte detected in the associated method blank.
BA BOD Alternative Calculation: The initial results performed by Standard Methods did not fall within parameters of the Standard Methods calculation. An alternate approved calculation was performed using the HACH method and the value reported is an estimated concentration.
C Sample(s) does not meet NELAP/ORELAP sample acceptance criteria. See Case Narrative.
C1 Sample(s) does not meet NELAP/ORELAP sample acceptance criteria for temperature.
CF Results confirmed by re-analysis.
CU Cleanup performed as specified by method.
D1 The diesel elution pattern for the sample is not typical.
D2 The sample appears to be a heavier hydrocarbon range than diesel.
D3 The sample appears to be a lighter hydrocarbon range than diesel.
D4 Detected hydrocarbons do not have pattern and range consistent with typical petroleum products and may be due to biogenic interference.
D5 Detected hydrocarbons in the diesel range appear to be weathered diesel.
E Estimated value.
ER Elevated reporting limit due to matrix. Report limits (MDLs, MRLs & PQLs) are adjusted based on variations in sample preparation amounts, analytical dilutions, and percent solids, where applicable.
FC Fecal Coliforms: Sample(s) received past 40 CFR Part 136 specified holding time. Results reported as estimated values.
G1 The gasoline elution pattern for the sample is not typical.
G2 The sample appears to be a heavier hydrocarbon range than gasoline.
G3 The sample appears to be a lighter hydrocarbon range than gasoline.
G4 Detected hydrocarbons in the gasoline range appear to be weathered gasoline.
HP Sample re-analysis performed outside of method specified holding time.
HR Sample received outside of method specified holding time.
HS Sample analyzed for volatile organics contained headspace.
HT At the client's request, the sample was analyzed outside of method specified holding time.
H Analysis performed outside of method specified holding time.
J Analyte detected below the Minimum Reporting Limit (MRL) and above the Method Detection Limit (MDL). The J flag result is an estimated value and the user should be aware that this data is of limited reliability.
L Dissolved metals were not filtered within 15 minutes of collection per 40 CFR Part 136.
MI Surrogate, Duplicate Sample (DUP) or Matrix Spikes recoveries are out of control limits due to matrix interference. Sample results may be biased.
N See Case Narrative on page 2 of report.
NLR No Legionella Recovered.
PLR Presence of Legionella Recovered.
Q Initial calibration verification (ICV), continuing calibration verification (CCV) or laboratory control sample (LCS) exceeded high recovery limits, but associated samples are non-detect and the sample results are not affected. Data meets EPA/NELAP requirements.
R Relative percent difference (RPD) is outside of the accepted recovery limits.
R1 Relative percent difference (RPD) is outside of the accepted recovery limits. However, analyses are not controlled on RPD values for sample concentrations that are less than the reporting limit.
R3 The relative percent difference (RPD) and/or percent recovery for the duplicate (DUP) or matrix spike (MS)/matrix spike duplicate (MSD) cannot be accurately calculated due to the concentration of analyte already present in the sample.
R4 Duplicate analysis failed due to result being at or near the method reporting limit.
S Surrogate and/or matrix spike recovery is outside of the accepted recovery limits. Sample results may be biased.
S1 Surrogate or matrix spike recovery is outside of control limits due to dilution necessary for analysis.
SC Sub-contracted to another laboratory for analysis.
SP Sample(s) were not collected per EPA Method 5035A protocols. The results are considered minimum values.
Value exceeds regulatory level for TCLP contaminant.
X1 The motor oil elution pattern for the sample is not typical.
X2 The sample appears to be a heavier hydrocarbon range than motor oil.
X3 The sample appears to be a lighter hydrocarbon range than motor oil.
* Value exceeds Maximum Contaminant Level or is outside the acceptable range.

Original

Neilson Research Corporation
245 S Grape St
Medford, OR 97501
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Website: www.nrclabs.com

December 16, 2019

Dave Fawcett
Coleman Creek Consulting
810 Leonard St
Ashland, OR 97520
TEL: (541) 535-7108
FAX (541) 535-8795

RE: 19-104G GP Regional Order No.: 19120415

Dear Dave Fawcett:

Neilson Research Corporation received 2 sample(s) on 12/9/2019 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 Schmedemann
Senior Project Manager
245 S Grape St
Medford, OR 97501

Original

Neilson Research Corporation
245 S Grape St
Medford, OR 97501
TEL: (541) 770-5678 FAX: (541) 770-2901
Website: www.nrclabs.com

Case Narrative

WO#: **19120415**
Date: **12/16/2019**

CLIENT: Coleman Creek Consulting
Project: 19-104G GP Regional

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.

Original

NEILSON RESEARCH CORPORATION

Neilson Research Corporation
245 S Grape St
Medford, OR 97501
TEL: (541) 770-5678 FAX: (541) 770-2901
Website: www.nrclabs.com

Analytical Report

WO#: **19120415**
Date Reported: **12/16/2019**

Coleman Creek Consulting
810 Leonard St
Ashland , OR 97520

Lab Order: 19120415
Received Date: 12/9/2019 5:05:00 PM
Reported Date: 12/16/2019 10:17:54 AM

Sample Information:

Lab ID: **19120415-01** Client Sample ID: 19-104G GP R7
Collection Date: 12/9/2019 8:21:00 AM Collected By:
Matrix: Drinking Water Sample Location: Grab

Trace Metals by EPA 200.8 ICP-MS — Analyst; SJS

Analyses	Result	Qual	MRL	Units	DF	Date Analyzed	MCL	NELAP Status
Copper	13.4		0.500	µg/L	1	12/11/2019	1300	A
Lead	23.6	*	0.100	µg/L	1	12/11/2019	15.0	A

Lab ID: **19120415-02** Client Sample ID: 19-104G GP R8
Collection Date: 12/9/2019 8:23:00 AM Collected By:
Matrix: Drinking Water Sample Location: Grab

Trace Metals by EPA 200.8 ICP-MS — Analyst; SJS

Analyses	Result	Qual	MRL	Units	DF	Date Analyzed	MCL	NELAP Status
Copper	23.2		0.500	µg/L	1	12/11/2019	1300	A
Lead	0.328		0.100	µg/L	1	12/11/2019	15.0	A

QUALIFIERS

*	Value exceeds Maximum Contaminant Level.	C1	Sample container temperature is out of limit as specified at testcode
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MI	Recovery outside comtrol limits due to Matrix Interference
ND	Not Detected at the Reporting Limit	PL	Permit Limit
R	RPD outside accepted recovery limits		

Results are out of the EPA limits

Original

NEILSON RESEARCH CORPORATION

Neilson Research Corporation
245 S Grape St
Medford, OR 97501
TEL: (541) 770-5678 FAX: (541) 770-2901
Website: www.nrclabs.com

QC SUMMARY REPORT

WO#: **19120415**

16-Dec-19

Client: Coleman Creek Consulting
Project: 19-104G GP Regional

TestCode: **ICPMS_200.8_DW**

Sample ID: **MB-2576** SampType: **MBLK** TestCode: **ICPMS_200.8** Units: **µg/L** Prep Date: **12/10/2019** RunNo: **6248**
Client ID: **PBW** Batch ID: **2576** TestNo: **E200.8** **E200.8** Analysis Date: **12/11/2019** SeqNo: **116860**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	ND	0.500									
Lead	ND	0.100									

Sample ID: **LCS-2576** SampType: **LCS** TestCode: **ICPMS_200.8** Units: **µg/L** Prep Date: **12/10/2019** RunNo: **6248**
Client ID: **LCSW** Batch ID: **2576** TestNo: **E200.8** **E200.8** Analysis Date: **12/11/2019** SeqNo: **116861**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	102	0.500	100	0	102	85	115				
Lead	106	0.100	100	0	106	85	115				

Sample ID: **19120415-02AMS** SampType: **MS** TestCode: **ICPMS_200.8** Units: **µg/L** Prep Date: **12/10/2019** RunNo: **6248**
Client ID: **19-104G GP R8** Batch ID: **2576** TestNo: **E200.8** **E200.8** Analysis Date: **12/11/2019** SeqNo: **116871**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	120	0.500	100	23.2	96.7	70	130				
Lead	102	0.100	100	0.328	101	70	130				

Sample ID: **19120415-02AMSD** SampType: **MSD** TestCode: **ICPMS_200.8** Units: **µg/L** Prep Date: **12/10/2019** RunNo: **6248**
Client ID: **19-104G GP R8** Batch ID: **2576** TestNo: **E200.8** **E200.8** Analysis Date: **12/11/2019** SeqNo: **116872**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	121	0.500	100	23.2	97.5	70	130	120	0.673	20	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	C1	Sample container temperature is out of limit as specified at testcode	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	MI	Recovery outside comtrol limits due to Matrix Interference	ND	Not Detected at the Reporting Limit
PL	Permit Limit	RL	Reporting Detection Limit		

Original

NEILSON RESEARCH CORPORATION

Neilson Research Corporation
245 S Grape St
Medford, OR 97501
TEL: (541) 770-5678 FAX: (541) 770-2901
Website: www.nrclabs.com

QC SUMMARY REPORT

WO#: **19120415**

16-Dec-19

Client: Coleman Creek Consulting
Project: 19-104G GP Regional

TestCode: **ICPMS_200.8_DW**

Sample ID: **19120415-02AMSD** SampType: **MSD** TestCode: **ICPMS_200.8** Units: **µg/L** Prep Date: **12/10/2019** RunNo: **6248**
Client ID: **19-104G GP R8** Batch ID: **2576** TestNo: **E200.8** **E200.8** Analysis Date: **12/11/2019** SeqNo: **116872**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	102	0.100	100	0.328	101	70	130	102	0.0934	20	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	C1	Sample container temperature is out of limit as specified at testcode	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	MI	Recovery outside comtrol limits due to Matrix Interference	ND	Not Detected at the Reporting Limit
PL	Permit Limit	RL	Reporting Detection Limit		

Original

NEILSON RESEARCH CORPORATION
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:	Coleman Creek Consulting
Address:	810 Leonard St
	Ashland, OR 97520
Email:	fawbro@ccountry.net
Phone:	(541) 535-7108 Fax: (541) 535-8795
Collected By (Print):	
Collected By (Sign):	
Email Report X Yes ___ No	Mail Report X Yes ___ No
Fax Report ___ Yes ___ No	

Section B
Required Project Information

Project Name:	GP Regional
Project Number:	19-104G
Report To:	
Copy To:	

Section C
Invoice Information

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

Section D
Rush Status (Subject to Scheduling)

- X 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: 8260	Remarks/Field Data	NRC Sample # (Lab Use Only)
19-104G-GPR7	Grab	DW	12/9/19	8:21	1	X		
19-104G-GPR8	Grab	DW	12/9/19	8:33	1	X		

NRC Workorder # (Lab Use Only) 1912045

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

Section F
Relinquish/Receive

	Sign	Print	Date	Time
Relinquished By:		David W Fawcett	12-9-19	1717
Received By:				
Relinquished By:				
Received By:				
Relinquished By:				
Received By Laboratory:		Denise Neal	12/9/19	17:05

Section G
Lab Use Only

Temp:	AMB
4°C +/- 2°C:	___ Yes ___ No
Received on Ice:	___ Yes ✓ No
Number of Bottles Received:	2
pH Checked:	NA
COC Seals Intact:	___ Yes ___ No ___ NA
Field Blank Included:	___ Yes ___ No

Received Via ___ UPS ___ FedEX ___ Other ___ Hand

Payment: ___ Invoice ___ Cash ___ VISA, M/C ___ Check # ___ Amount ___

NEILSON RESEARCH CORPORATION

Neilson Research Corporation
245 S Grape St
Medford, OR 97501
TEL: (541) 770-5678 FAX: (541) 770-2901
Website: www.nrclabs.com

Data Flags

WO#: **19120415**
Date: **12/16/2019**

B Analyte detected in the associated method blank.
BA BOD Alternative Calculation: The initial results performed by Standard Methods did not fall within parameters of the Standard Methods calculation. An alternate approved calculation was performed using the HACH method and the value reported is an estimated concentration.
C Sample(s) does not meet NELAP/ORELAP sample acceptance criteria. See Case Narrative.
C1 Sample(s) does not meet NELAP/ORELAP sample acceptance criteria for temperature.
CF Results confirmed by re-analysis.
CU Cleanup performed as specified by method.
D1 The diesel elution pattern for the sample is not typical.
D2 The sample appears to be a heavier hydrocarbon range than diesel.
D3 The sample appears to be a lighter hydrocarbon range than diesel.
D4 Detected hydrocarbons do not have pattern and range consistent with typical petroleum products and may be due to biogenic interference.
D5 Detected hydrocarbons in the diesel range appear to be weathered diesel.
E Estimated value.
ER Elevated reporting limit due to matrix. Report limits (MDLs, MRLs & PQLs) are adjusted based on variations in sample preparation amounts, analytical dilutions, and percent solids, where applicable.
FC Fecal Coliforms: Sample(s) received past 40 CFR Part 136 specified holding time. Results reported as estimated values.
G1 The gasoline elution pattern for the sample is not typical.
G2 The sample appears to be a heavier hydrocarbon range than gasoline.
G3 The sample appears to be a lighter hydrocarbon range than gasoline.
G4 Detected hydrocarbons in the gasoline range appear to be weathered gasoline.
HP Sample re-analysis performed outside of method specified holding time.
HR Sample received outside of method specified holding time.
HS Sample analyzed for volatile organics contained headspace.
HT At the client's request, the sample was analyzed outside of method specified holding time.
H Analysis performed outside of method specified holding time.
J Analyte detected below the Minimum Reporting Limit (MRL) and above the Method Detection Limit (MDL). The J flag result is an estimated value and the user should be aware that this data is of limited reliability.
L Dissolved metals were not filtered within 15 minutes of collection per 40 CFR Part 136.
MI Surrogate, Duplicate Sample (DUP) or Matrix Spikes recoveries are out of control limits due to matrix interference. Sample results may be biased.
N See Case Narrative on page 2 of report.
NLR No Legionella Recovered.
PLR Presence of Legionella Recovered.
Q Initial calibration verification (ICV), continuing calibration verification (CCV) or laboratory control sample (LCS) exceeded high recovery limits, but associated samples are non-detect and the sample results are not affected. Data meets EPA/NELAP requirements.
R Relative percent difference (RPD) is outside of the accepted recovery limits.
R1 Relative percent difference (RPD) is outside of the accepted recovery limits. However, analyses are not controlled on RPD values for sample concentrations that are less than the reporting limit.
R3 The relative percent difference (RPD) and/or percent recovery for the duplicate (DUP) or matrix spike (MS)/matrix spike duplicate (MSD) cannot be accurately calculated due to the concentration of analyte already present in the sample.
R4 Duplicate analysis failed due to result being at or near the method reporting limit.
S Surrogate and/or matrix spike recovery is outside of the accepted recovery limits. Sample results may be biased.
S1 Surrogate or matrix spike recovery is outside of control limits due to dilution necessary for analysis.
SC Sub-contracted to another laboratory for analysis.
SP Sample(s) were not collected per EPA Method 5035A protocols. The results are considered minimum values.
Value exceeds regulatory level for TCLP contaminant.
X1 The motor oil elution pattern for the sample is not typical.
X2 The sample appears to be a heavier hydrocarbon range than motor oil.
X3 The sample appears to be a lighter hydrocarbon range than motor oil.
* Value exceeds Maximum Contaminant Level or is outside the acceptable range.

Neilson Research Corporation
245 S Grape St
Medford, OR 97501
TEL: (541) 770-5678 FAX: (541) 770-2901
Website: www.nrclabs.com

February 10, 2020

Dave Fawcett
Coleman Creek Consulting
810 Leonard St
Ashland, OR 97520
TEL: (541) 535-7108
FAX: (541) 535-8795

RE: 19-104G Grants Pass Regional Order No.: 20011182

Dear Dave Fawcett:

Neilson Research Corporation received 1 sample(s) on 1/31/2020 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 Schmedemann
Senior Project Manager
245 S Grape St
Medford, OR 97501

Original

Neilson Research Corporation
245 S Grape St
Medford, OR 97501
TEL: (541) 770-5678 FAX: (541) 770-2901
Website: www.nrclabs.com

Case Narrative

WO#: **20011182**
Date: **2/10/2020**

CLIENT: Coleman Creek Consulting
Project: 19-104G Grants Pass Regional

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.

Original

NEILSON RESEARCH CORPORATION

Neilson Research Corporation
245 S Grape St
Medford, OR 97501
TEL: (541) 770-5678 FAX: (541) 770-2901
Website: www.nrclabs.com

Analytical Report

WO#: **20011182**
Date Reported: **2/10/2020**

Coleman Creek Consulting
810 Leonard St
Ashland , OR 97520

Lab Order: 20011182
Received Date: 1/31/2020 8:18:00 AM
Reported Date: 2/10/2020 9:47:58 AM

Sample Information:

Lab ID: **20011182-01** Client Sample ID: 19-104G GRP 21
Collection Date: 1/31/2020 6:45:00 AM Collected By: David
Matrix: Drinking Water Sample Location: Grab

Trace Metals by EPA 200.8 ICP-MS Analyst; SJS

Analyses	Result	Qual	MRL	Units	DF	Date Analyzed	MCL	NELAP Status
Copper	14.9		0.500	µg/L	1	2/4/2020	1300	A
Lead	27.1	*	0.100	µg/L	1	2/4/2020	15.0	A

QUALIFIERS

*	Value exceeds Maximum Contaminant Level.
E	Value above quantitation range
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits
C1	Sample container temperature is out of limit as specified at testcod
H	Holding times for preparation or analysis exceeded
MI	Recovery outside comtrol limits due to Matrix Interference
PL	Permit Limit

Results are out of the EPA limits

Original

NEILSON RESEARCH CORPORATION

Neilson Research Corporation
245 S Grape St
Medford, OR 97501
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Website: www.nrclabs.com

QC SUMMARY REPORT

WO#: **20011182**

10-Feb-20

Client: Coleman Creek Consulting
Project: 19-104G Grants Pass Regional

TestCode: **ICPMS_200.8_DW**

Sample ID: **MB-3024**	SampType: **MBLK**	TestCode: **ICPMS_200.8**	Units: **µg/L**	Prep Date: **2/3/2020**	RunNo: **7402**
Client ID: **PBW**	Batch ID: **3024**	TestNo: **E200.8**	**E200.8**	Analysis Date: **2/4/2020**	SeqNo: **134861**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	ND	0.500									
Lead	ND	0.100									

Sample ID: **LCS-3024**	SampType: **LCS**	TestCode: **ICPMS_200.8**	Units: **µg/L**	Prep Date: **2/3/2020**	RunNo: **7402**
Client ID: **LCSW**	Batch ID: **3024**	TestNo: **E200.8**	**E200.8**	Analysis Date: **2/4/2020**	SeqNo: **134862**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	103	0.500	100	0	103	85	115				
Lead	98.8	0.100	100	0	98.8	85	115				

Sample ID: **20011182-01AMS**	SampType: **MS**	TestCode: **ICPMS_200.8**	Units: **µg/L**	Prep Date: **2/3/2020**	RunNo: **7402**
Client ID: **19-104G GRP 21**	Batch ID: **3024**	TestNo: **E200.8**	**E200.8**	Analysis Date: **2/4/2020**	SeqNo: **134875**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	114	0.500	100	14.9	99.4	70	130				
Lead	125	0.100	100	27.1	97.4	70	130				

Sample ID: **20011182-01AMSD**	SampType: **MSD**	TestCode: **ICPMS_200.8**	Units: **µg/L**	Prep Date: **2/3/2020**	RunNo: **7402**
Client ID: **19-104G GRP 21**	Batch ID: **3024**	TestNo: **E200.8**	**E200.8**	Analysis Date: **2/4/2020**	SeqNo: **134876**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	115	0.500	100	14.9	99.8	70	130	114	0.342	20	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	C1	Sample container temperature is out of limit as specified at testcode	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	MI	Recovery outside comtrol limits due to Matrix Interference	ND	Not Detected at the Reporting Limit
PL	Permit Limit	RL	Reporting Detection Limit		

Original

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QC SUMMARY REPORT

WO#: **20011182**

10-Feb-20

Client: Coleman Creek Consulting
Project: 19-104G Grants Pass Regional

TestCode: **ICPMS_200.8_DW**

Sample ID: **20011182-01AMSD**	SampType: **MSD**	TestCode: **ICPMS_200.8**	Units: **µg/L**	Prep Date: **2/3/2020**	RunNo: **7402**						
Client ID: **19-104G GRP 21**	Batch ID: **3024**	TestNo: **E200.8**	**E200.8**	Analysis Date: **2/4/2020**	SeqNo: **134876**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	124	0.100	100	27.1	96.9	70	130	125	0.373	20	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	C1	Sample container temperature is out of limit as specified at testcode	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	MI	Recovery outside comtrol limits due to Matrix Interference	ND	Not Detected at the Reporting Limit
PL	Permit Limit	RL	Reporting Detection Limit		

Original

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Environmental Testing Laboratory
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(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:	Coleman Creek Consulting
Address:	810 Leonard St
	Ashland, OR 97520
Email:	fawbro@ccountry.net
Phone:	(541) 535-7108 Fax: (541) 535-8795
Collected By (Print):	David Fawcett
Collected By (Sign):	DF Fawcett
Email Report	X Yes ___ No
Mail Report	X Yes ___ No
Fax Report	___ Yes ___ No

Section B
Required Project Information

Project Name:	Grants Pass Regional
Project Number:	19-104G
Report To:	
Copy To:	

Section C
Invoice Information

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

Section D
Rush Status (Subject to Scheduling)

- X 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: Pb/Cu	Remarks/Field Data	NRC Sample # (Lab Use Only)
19-104G-GPRZ1	Grab	DW	1-31-20	0645	1	X		

NRC Workorder # (Lab Use Only) 2001182

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

Section F
Relinquish/Receive

	Sign	Print	Date	Time
Relinquished By:	DF Fawcett	David W. Fawcett	1-31-20	0818
Received By:	Tamara Schroedermann	Tamara Schroedermann	1-31-20	08:18
Relinquished By:				
Received By:				
Relinquished By:				
Received By Laboratory:				

Section G
Lab Use Only

Temp:	0.0/0.0
4°C +/- 2°C:	___ Yes X No
Received on Ice:	___ Yes X No
Number of Bottles Received:	1
pH Checked:	N/A
COC Seals Intact:	___ Yes ___ No X NA
Field Blank Included:	___ Yes X No

Received Via ___ UPS ___ FedEX ___ Other X Hand

Payment: X Invoice ___ Cash ___ VISA, M/C ___ Check # ___ Amount ___

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Data Flags

WO#: **20011182**
Date: **2/10/2020**

B Analyte detected in the associated method blank.
BA BOD Alternative Calculation: The initial results performed by Standard Methods did not fall within parameters of the Standard Methods calculation. An alternate approved calculation was performed using the HACH method and the value reported is an estimated concentration.
C Sample(s) does not meet NELAP/ORELAP sample acceptance criteria. See Case Narrative.
C1 Sample(s) does not meet NELAP/ORELAP sample acceptance criteria for temperature.
CF Results confirmed by re-analysis.
CU Cleanup performed as specified by method.
D1 The diesel elution pattern for the sample is not typical.
D2 The sample appears to be a heavier hydrocarbon range than diesel.
D3 The sample appears to be a lighter hydrocarbon range than diesel.
D4 Detected hydrocarbons do not have pattern and range consistent with typical petroleum products and may be due to biogenic interference.
D5 Detected hydrocarbons in the diesel range appear to be weathered diesel.
E Estimated value.
ER Elevated reporting limit due to matrix. Report limits (MDLs, MRLs & PQLs) are adjusted based on variations in sample preparation amounts, analytical dilutions, and percent solids, where applicable.
FC Fecal Coliforms: Sample(s) received past 40 CFR Part 136 specified holding time. Results reported as estimated values.
G1 The gasoline elution pattern for the sample is not typical.
G2 The sample appears to be a heavier hydrocarbon range than gasoline.
G3 The sample appears to be a lighter hydrocarbon range than gasoline.
G4 Detected hydrocarbons in the gasoline range appear to be weathered gasoline.
HP Sample re-analysis performed outside of method specified holding time.
HR Sample received outside of method specified holding time.
HS Sample analyzed for volatile organics contained headspace.
HT At the client's request, the sample was analyzed outside of method specified holding time.
H Analysis performed outside of method specified holding time.
J Analyte detected below the Minimum Reporting Limit (MRL) and above the Method Detection Limit (MDL). The J flag result is an estimated value and the user should be aware that this data is of limited reliability.
L Dissolved metals were not filtered within 15 minutes of collection per 40 CFR Part 136.
MI Surrogate, Duplicate Sample (DUP) or Matrix Spikes recoveries are out of control limits due to matrix interference. Sample results may be biased.
N See Case Narrative on page 2 of report.
NLR No Legionella Recovered.
PLR Presence of Legionella Recovered.
Q Initial calibration verification (ICV), continuing calibration verification (CCV) or laboratory control sample (LCS) exceeded high recovery limits, but associated samples are non-detect and the sample results are not affected. Data meets EPA/NELAP requirements.
R Relative percent difference (RPD) is outside of the accepted recovery limits.
R1 Relative percent difference (RPD) is outside of the accepted recovery limits. However, analyses are not controlled on RPD values for sample concentrations that are less than the reporting limit.
R3 The relative percent difference (RPD) and/or percent recovery for the duplicate (DUP) or matrix spike (MS)/matrix spike duplicate (MSD) cannot be accurately calculated due to the concentration of analyte already present in the sample.
R4 Duplicate analysis failed due to result being at or near the method reporting limit.
S Surrogate and/or matrix spike recovery is outside of the accepted recovery limits. Sample results may be biased.
S1 Surrogate or matrix spike recovery is outside of control limits due to dilution necessary for analysis.
SC Sub-contracted to another laboratory for analysis.
SP Sample(s) were not collected per EPA Method 5035A protocols. The results are considered minimum values.
Value exceeds regulatory level for TCLP contaminant.
X1 The motor oil elution pattern for the sample is not typical.
X2 The sample appears to be a heavier hydrocarbon range than motor oil.
X3 The sample appears to be a lighter hydrocarbon range than motor oil.
* Value exceeds Maximum Contaminant Level or is outside the acceptable range.