NEILSON RESEARCH CORPORATION
Environmental Testing Laboratory

3/22/2019

Andy Chasteen
Medford School District
815 S Oakdale Ave
Medford, OR 97501

TEL: 541-842-3646
FAX 541-842-1160

RE: Lone Pine Special Lead & Copper

Order No.: 1903419

Dear Andy Chasteen:

Neilson Research Corporation received 1 sample(s) on 3/12/2019 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 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: Medford School District
Project: Lone Pine Special Lead & Copper
Lab Order: 1903419

Date: 22-Mar-19

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.

Neilson Research Corporation

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

Analysis Report

ORELAP 100016
EPA OR00028

Medford School District
815 S Oakdale Ave
Medford, OR 97501

Lab Order: **1903419**
NRC Sample ID: **1903419-01A**
Collection Date: **3/12/2019 8:15:00 AM**
Received Date: **3/12/2019 11:18:00 AM**
Reported Date: **3/22/2019 5:12:52 PM**

Sample Information:

Lone Pine Special Lead & Copper

,

Client Sample ID: Room 9 Sink
Collectors Name: Andy Chasteen
Sample Location: Room 9 Sink
Source:
Matrix: Drinking Water

ANALYTICAL RESULTS

Analyses	Method	NELAP Accredited	Result	Qual	MRL	Units	EPA Limit	Date Analyzed	Analyst
Copper	EPA 200.8	A	**1.69**	*	0.005	mg/L	1.3 AL	3/21/2019	KHG
Lead	EPA 200.8	A	**0.00349**		0.0001	mg/L	0.015 AL	3/13/2019	JWC

Notes: ND - Not Detected at the MRL N.L. - No Limit MRL - Minimum Reporting Limit

1

DATA FLAGS

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.
R2	The relative percent difference (RPD) for solids is out of control limits due to the results being less than 10 times 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

Date: 22-Mar-19

CLIENT: Medford School District
Work Order: 1903419
Project: Lone Pine Special Lead & Copper

ANALYTICAL QC SUMMARY REPORT

TestCode: ICPMS_200.8_SCHOOL

Sample ID	MB-43957	SampType:	MBLK	TestCode:	ICPMS_200.8	Units:	mg/L	Prep Date:	3/13/2019	RunNo:	110746
Client ID:	ZZZZZ	Batch ID:	43957	TestNo:	EPA 200.8	(EPA 200.8)		Analysis Date:	3/13/2019	SeqNo:	1696967

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-43957	SampType:	LCS	TestCode:	ICPMS_200.8	Units:	mg/L	Prep Date:	3/13/2019	RunNo:	110746
Client ID:	ZZZZZ	Batch ID:	43957	TestNo:	EPA 200.8	(EPA 200.8)		Analysis Date:	3/13/2019	SeqNo:	1696968

Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	0.1041	0.000500	0.1	0	104	85	115				
Lead	0.1012	0.000100	0.1	0	101	85	115				

Sample ID	1903483-01AMS	SampType:	MS	TestCode:	ICPMS_200.8	Units:	mg/L	Prep Date:	3/13/2019	RunNo:	110746
Client ID:	ZZZZZ	Batch ID:	43957	TestNo:	EPA 200.8	(EPA 200.8)		Analysis Date:	3/13/2019	SeqNo:	1696973

Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	0.09597	0.000500	0.1	0.000456	95.5	70	130				
Lead	0.1011	0.000100	0.1	0.000042	101	70	130				

Sample ID	1903483-01AMSD	SampType:	MSD	TestCode:	ICPMS_200.8	Units:	mg/L	Prep Date:	3/13/2019	RunNo:	110746
Client ID:	ZZZZZ	Batch ID:	43957	TestNo:	EPA 200.8	(EPA 200.8)		Analysis Date:	3/13/2019	SeqNo:	1696974

Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	0.09648	0.000500	0.1	0.000456	96.0	70	130	0.09597	0.521	20	
Lead	0.09993	0.000100	0.1	0.000042	99.9	70	130	0.1011	1.14	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

NEILSON RESEARCH CORPORATION

Chain of Custody Record

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

Section A
Required Client Information

Company:	Medford School Dist
Address:	815 S Oakdale Ave
	Medford, OR 97501
Email:	andy.chasteen@medford.k12.or.us
Phone:	541-842-3646 Fax:
Collected By (Print):	ANDY CHASTEEN
Collected By (Sign):	Andy J. Chast
Email Report ___ Mail Report ___ Fax Report ___	

Section B
Required Project Information

Project Name:	Lone Pine
Project Number:	Room 9 Sink
Report To:	Andy Chasteen
Copy To:	

Section C
Invoice Information

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

Section D
Rush Status (Subject to Scheduling)

- X Standard: 10 Business Days
- ___ Priority: 5 Business Days (List × 1.50)
- ___ Express: 3 Business Days (List × 1.75)
- ___ Rush: 2 Business Days (List × 2.00)
- ___ Rush: Same Day (List × 3.00)

Authorized ___ Yes ___ No

Section E
Sample Information

Sample ID	Comp/Grab	Matrix*	Date Collected	Time Collected	No. of Containers	Analysis Requested: Lead	Analysis Requested: Copper	Remarks / Field Data	NRC Sample # (Lab Use Only)
Lone Pine #56243	Grab	DW	3/12/19	8:15	X	X	X		01A

NRC Workorder # (Lab Use Only): 1903419

*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:	Andy J. Chasteen	ANDY CHASTEEN	3/12/19	11:18
Received By:				
Relinquished By:				
Received By:				
Relinquished By:				
Received By Laboratory:		Naomi Orr	3/12/19	11:18

Section G
Lab Use Only

Temp:	amb
4°C +/- 2°C:	___ Yes ___ No
Received on Ice:	___ Yes X No
Number of Bottles Received:	1
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 _____