



NEILSON RESEARCH CORPORATION

Environmental Testing Laboratory

7/22/2016

Rick Rose
Medford School District
815 S Oakdale Ave
Medford, OR 97501

TEL: (541) 842-1138
FAX 541-842-1160

RE: 16-16 Hoover Copper Retest

Order No.: 1607208

Dear Rick Rose:

Neilson Research Corporation received 1 sample(s) on 7/6/2016 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

Alec C Smith
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: 16-16 Hoover Copper Retest
Lab Order: 1607208

Date: 22-Jul-16

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: **1607208**
NRC Sample ID: **1607208-01A**
Collection Date: **7/6/2016 2:06:00 PM**
Received Date: **7/6/2016 4:20:00 PM**
Reported Date: **7/22/2016 8:15:42 AM**

Sample Information:

16-16 Hoover Copper Retest

Client Sample ID: Bottle #19553
Collectors Name: John Jessen
Sample Location: Rm 61 DF
Source: City Water

ANALYTICAL RESULTS

Analyses	Method	NELAP Accredited	Result	Qual	MRL	Units	EPA Limit	Date Analyzed	Analyst
Copper	EPA 200.8	A	1.54	*	0.00515	mg/L	1.3 AL	7/19/2016	OML

Notes: ND - Not Detected at the MRL

N.L. - No Limit

MRL - Minimum Reporting Limit

Neilson Research Corporation
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.
MI	Surrogate or Matrix Spike recovery is out of control limits due to matrix interference. Sample results may be biased.
N	See Case Narrative on page 2 of report.
Q	Closing 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 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.
T	Toxicity Characteristic Leaching Procedure – Sample submitted contained < 0.5% solids. If the waste contains <0.5% dry solids, the liquid portion of the waste, after filtration, is defined as the TCLP extract.
#	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.

NRC SOP QA-1104/AD-3100
Revision 3
Effective Date: 6/3/16

CLIENT: Medford School District
Work Order: 1607208
Project: 16-16 Hoover Copper Retest

ANALYTICAL QC SUMMARY REPORT

TestCode: ICPMS_200.8_SCHOOL

Sample ID MB-35819	SampType: MBLK	TestCode: ICPMS_200.8	Units: mg/L	Prep Date: 7/15/2016	RunNo: 88503						
Client ID: ZZZZZ	Batch ID: 35819	TestNo: EPA 200.8	(EPA 200.8)	Analysis Date: 7/18/2016	SeqNo: 1326565						
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Copper ND 0.000515

Sample ID LCS-35819	SampType: LCS	TestCode: ICPMS_200.8	Units: mg/L	Prep Date: 7/15/2016	RunNo: 88503						
Client ID: ZZZZZ	Batch ID: 35819	TestNo: EPA 200.8	(EPA 200.8)	Analysis Date: 7/18/2016	SeqNo: 1326566						
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Copper 0.09768 0.000520 0.1 0.00004779 97.6 85 115

Sample ID 1607208-01AMS	SampType: MS	TestCode: ICPMS_200.8	Units: mg/L	Prep Date: 7/15/2016	RunNo: 88564						
Client ID: Bottle #19553	Batch ID: 35819	TestNo: EPA 200.8	(EPA 200.8)	Analysis Date: 7/19/2016	SeqNo: 1327244						
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Copper 1.660 0.00520 0.1 1.539 121 70 130

Sample ID 1607208-01AMSD	SampType: MSD	TestCode: ICPMS_200.8	Units: mg/L	Prep Date: 7/15/2016	RunNo: 88564						
Client ID: Bottle #19553	Batch ID: 35819	TestNo: EPA 200.8	(EPA 200.8)	Analysis Date: 7/19/2016	SeqNo: 1327245						
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Copper 1.616 0.00520 0.1 1.539 77.3 70 130 1.66 2.67 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



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Chain of Custody Record

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

Retest

Section A Required Client Information

Company: Medford School District 549C
 Address: 815 S. Oakdale, Medford, Or, 97501
 Email: rick.rose@medford.k12.or.us
 Phone: 541.842.1138 Fax: 541.842.1160
 Collected By (Print): *John Jensen*
 Collected By (Sign): *[Signature]*
 Email Report Yes No
 Fax Report Yes No

Section B Required Project Information

Project Name: 2016 Lead testing
 Project Number: 6-16 / Hoover
 Report To: rick.rose@medford.k12.or.us
 Copy To: ron.havvitar@medford.k12.or.us
 Attention: Accounting
 Company Name: Medford School
 Address: 815 S. Oakdale, Medford, Or, 97501
 P.O. # P112894

Section C Invoice Information

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	Camp/Grab	Matrix*	Date Collected	Time Collected	No. of Containers	Analysis Requested		NRC Workorder # (Lab Use Only)	NRC Sample # (Lab Use Only)
R061DF	19553		7/6/16	2:06pm	1	Copper		1407208	01

Section F Relinquish/Receive

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

Relinquished By: *[Signature]* Sign
 Received By: *John Jensen* Print
 Relinquished By: _____
 Received By: _____
 Relinquished By: _____
 Received By: _____
 Relinquished By: _____
 Received By: _____

Date: 7/6/16 Time: 4:30pm

Section G Lab Use Only

Temp: *AMBIENT*
 4°C +/- 2°C: Yes No
 Received on ice: Yes No
 Number of Bottles Received: *1*
 pH Checked: *NA*
 CCC Seals Intact: Yes No NA
 Field Blank Included: Yes No

Received Via: _____
 UPS _____ FedEx _____ Other Hand
 Payment: Invoice _____ Cash _____ VISA, M/C _____ Check # _____ Amount _____