



# NEILSON RESEARCH CORPORATION

*Environmental Testing Laboratory*

8/3/2016

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

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

RE: 16-52 Ruch Lead Study Retests

Order No.: 1607969

Dear Rick Rose:

Neilson Research Corporation received 5 sample(s) on 7/21/2016 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

245 S Grape St • Medford, OR 97501 • (541) 770-5678  
400 SE G St, Suite B • Grants Pass, OR 97526 • (541) 479-4053

[www.nrclabs.com](http://www.nrclabs.com)

# 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:** 16-52 Ruch Lead Study Retests  
**Lab Order:** 1607969

**Date:** 03-Aug-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: **1607969**  
NRC Sample ID: **1607969-01A**  
Collection Date: **7/21/2016 1:30:00 PM**  
Received Date: **7/21/2016 3:49:00 PM**  
Reported Date: **8/3/2016 4:06:42 PM**

### Sample Information:

16-52 Ruch Lead Study Retests

Client Sample ID: Bottle #12874  
Collectors Name: John Jessen  
Sample Location: Media Ctr Upper Sink  
Source: City Water

## ANALYTICAL RESULTS

Analyses	Method	NELAP Accredited	Result	Qual	MRL	Units	EPA Limit	Date Analyzed	Analyst
Lead	EPA 200.8	A	0.0160	CF	0.000103	mg/L	0.020 AL	7/28/2016	OML

Notes: ND - Not Detected at the MRL

N.L. - No Limit

MRL - Minimum Reporting Limit

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## Analysis Report

ORELAP 100016  
EPA OR00028

Medford School District  
815 S Oakdale Ave  
Medford, OR 97501

Lab Order: **1607969**  
NRC Sample ID: **1607969-02A**  
Collection Date: **7/21/2016 1:10:00 PM**  
Received Date: **7/21/2016 3:49:00 PM**  
Reported Date: **8/3/2016 4:06:42 PM**

### Sample Information:

16-52 Ruch Lead Study Retests

Client Sample ID: Bottle #12928  
Collectors Name: John Jessen  
Sample Location: DF Outside Office by RR L  
Source: City Water

## ANALYTICAL RESULTS

Analyses	Method	NELAP Accredited	Result	Qual	MRL	Units	EPA Limit	Date Analyzed	Analyst
Lead	EPA 200.8	A	0.00883		0.000103	mg/L	0.020 AL	7/28/2016	OML

Notes: ND - Not Detected at the MRL

N.L. - No Limit

MRL - Minimum Reporting Limit

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## Analysis Report

ORELAP 100016  
EPA OR00028

### Medford School District

815 S Oakdale Ave  
Medford, OR 97501

Lab Order: **1607969**

NRC Sample ID: **1607969-03A**

Collection Date: **7/21/2016 1:41:00 PM**

Received Date: **7/21/2016 3:49:00 PM**

Reported Date: **8/3/2016 4:06:42 PM**

### Sample Information:

### 16-52 Ruch Lead Study Retests

Client Sample ID: Bottle #12860

Collectors Name: John Jessen

Sample Location: DF Outside Room 6

Source: City Water

## ANALYTICAL RESULTS

Analyses	Method	NELAP Accredited	Result	Qual	MRL	Units	EPA Limit	Date Analyzed	Analyst
Lead	EPA 200.8	A	<b>0.00126</b>		0.000103	mg/L	0.020 AL	7/28/2016	OML

Notes: ND - Not Detected at the MRL

N.L. - No Limit

MRL - Minimum Reporting Limit

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## Analysis Report

ORELAP 100016  
EPA OR00028

Medford School District  
815 S Oakdale Ave  
Medford, OR 97501

Lab Order: **1607969**  
NRC Sample ID: **1607969-04A**  
Collection Date: **7/21/2016 1:27:00 PM**  
Received Date: **7/21/2016 3:49:00 PM**  
Reported Date: **8/3/2016 4:06:42 PM**

### Sample Information:

16-52 Ruch Lead Study Retests

Client Sample ID: Bottle #12907  
Collectors Name: John Jessen  
Sample Location: DF Outside Rm 13  
Source: City Water

## ANALYTICAL RESULTS

Analyses	Method	NELAP Accredited	Result	Qual	MRL	Units	EPA Limit	Date Analyzed	Analyst
Lead	EPA 200.8	A	0.00967		0.000103	mg/L	0.020 AL	7/28/2016	OML

Notes: ND - Not Detected at the MRL

N.L. - No Limit

MRL - Minimum Reporting Limit

# 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: **1607969**  
NRC Sample ID: **1607969-05A**  
Collection Date: **7/21/2016 1:33:00 PM**  
Received Date: **7/21/2016 3:49:00 PM**  
Reported Date: **8/3/2016 4:06:42 PM**

### Sample Information:

16-52 Ruch Lead Study Retests

Client Sample ID: Bottle #12921  
Collectors Name: John Jessen  
Sample Location: Kitchen Prep Sink L  
Source: City Water

## ANALYTICAL RESULTS

Analyses	Method	NELAP Accredited	Result	Qual	MRL	Units	EPA Limit	Date Analyzed	Analyst
Lead	EPA 200.8	A	<b>0.00623</b>		0.000103	mg/L	0.020 AL	7/28/2016	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:** 1607969  
**Project:** 16-52 Ruch Lead Study Retests

**ANALYTICAL QC SUMMARY REPORT**

**TestCode: ICPMS\_200.8\_SCHOOL**

Sample ID <b>MB-35966</b>	SampType: <b>MBLK</b>	TestCode: <b>ICPMS_200.8</b>	Units: <b>mg/L</b>	Prep Date: <b>7/26/2016</b>	RunNo: <b>88781</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>35966</b>	TestNo: <b>EPA 200.8</b>	<b>(EPA 200.8)</b>	Analysis Date: <b>7/28/2016</b>	SeqNo: <b>1334017</b>						
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead ND 0.000103

Sample ID <b>LCS-35966</b>	SampType: <b>LCS</b>	TestCode: <b>ICPMS_200.8</b>	Units: <b>mg/L</b>	Prep Date: <b>7/26/2016</b>	RunNo: <b>88781</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>35966</b>	TestNo: <b>EPA 200.8</b>	<b>(EPA 200.8)</b>	Analysis Date: <b>7/28/2016</b>	SeqNo: <b>1334018</b>						
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 0.09695 0.000104 0.1 0 96.9 85 115

Sample ID <b>1607A12-01AMS</b>	SampType: <b>MS</b>	TestCode: <b>ICPMS_200.8</b>	Units: <b>mg/L</b>	Prep Date: <b>7/26/2016</b>	RunNo: <b>88781</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>35966</b>	TestNo: <b>EPA 200.8</b>	<b>(EPA 200.8)</b>	Analysis Date: <b>7/28/2016</b>	SeqNo: <b>1334039</b>						
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 0.09697 0.000104 0.1 0.0003442 96.6 70 130

Sample ID <b>1607A12-01AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>ICPMS_200.8</b>	Units: <b>mg/L</b>	Prep Date: <b>7/26/2016</b>	RunNo: <b>88781</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>35966</b>	TestNo: <b>EPA 200.8</b>	<b>(EPA 200.8)</b>	Analysis Date: <b>7/28/2016</b>	SeqNo: <b>1334040</b>						
Analyte	Result	MRL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 0.09575 0.000104 0.1 0.0003442 95.4 70 130 0.09697 1.26 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  
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This Chain of Custody is a LEGAL DOCUMENT and must be filled out accurately.

**Chain of Custody Record**

*Ruch (Re-tests)*

Page \_\_\_ of \_\_\_

<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: Medford School District 549C		Project Name: 2016 Lead testing		Attention: Accounting		Standard 10-14 Days	
Address: 815 S. Oakdale, Medford, OR, 97501		Project Number: 16-52 \ Ruch		Company Name: Medford School		5 Business Days (50% surcharge)	
Email: rick.rose@medford.k12.or.us		Report To: rick.rose@medford.k12.or.us		Address: 815 S. Oakdale Medford, Or, 97501		3 Business Days (75% surcharge)	
Phone: 541.842.1138 Fax 541.842.1160		Copy To: ron.havlicar@medford.k12.or.us		P.O. # P112894		24 - 48 hours (100% surcharge)	
Collected By (Print): <i>John Sessen</i>		Analysts Requested		Authorized		Yes <input type="checkbox"/> No <input type="checkbox"/>	
Collected By (Sign): <i>[Signature]</i>							
Email Report <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No							
Fax Report <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No							

Sample ID	Corrn/Grab	Matrix*	Date Collected	Time Collected	No. of Containers				NRC Workorder # (Lab Use Only)	NRC Sample # (Lab Use Only)
					1	2	3	4		
<i>Hella (5) Brass Sink Faucet</i>			<i>7/21/16</i>	<i>1:30pm</i>					<i>16079169</i>	<i>01</i>
<i>DE Outside Drain By RPS (L)</i>				<i>1:10pm</i>						<i>02</i>
<i>DE Outside Rin 6</i>				<i>1:41 pm</i>						<i>03</i>
<i>DE Outside Rin 3</i>				<i>1:27 pm</i>						<i>04</i>
<i>Station Fork Shop Sink (L)</i>				<i>1:33pm</i>						<i>05</i>

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

<b>Section E</b> Sample Information		<b>Section F</b> Relinquish/Receive		<b>Section G</b> Lab Use Only	
Sign: <i>[Signature]</i>		Print: <i>John Sessen</i>		Temp: <i>AMBIENT</i>	
Received By: <i>[Signature]</i>		Date: <i>7/21/16</i>		Received on Ice: Yes <input type="checkbox"/> No <input type="checkbox"/>	
Relinquished By:		Time: <i>3:49pm</i>		Number of Bottles Received: <i>5</i>	
Received By:				pH Checked: <i>PH</i>	
Relinquished By:				COC Seals Intact: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	
Received By:				Field Blank Included: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Relinquished By:				Received Via: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Other <input checked="" type="checkbox"/> Hand	
Received By Laboratory: <i>[Signature]</i>		Date: <i>7/21/16</i>		Payment: <input checked="" type="checkbox"/> Invoice <input type="checkbox"/> Cash <input type="checkbox"/> VISA, M/C <input type="checkbox"/> Check # <input type="checkbox"/> Amount <input type="checkbox"/>	