



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

October 28, 2020

Ron Havniear
Medford School District
815 S Oakdale Ave
Medford, OR 97501
TEL: 541-842-3646
FAX: 541-842-1160

RE: 18-20 Howard 2020 Lead Testing

Order No.: 20101091

Dear Ron Havniear:

Neilson Research Corporation received 1 sample(s) on 10/22/2020 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



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Medford, OR 97501
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Case Narrative

WO#: 20101091
Date: 10/28/2020

CLIENT: Medford School District

Project: 18-20 Howard 2020 Lead Testing

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



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Analytical Report

WO#: 20101091

Date Reported: 10/28/2020

Medford School District
815 S Oakdale Ave
Medford, OR 97501

Lab Order: 20101091
Received Date: 10/22/2020 1:59:00 PM
Reported Date: 10/28/2020 3:49:06 PM

Sample Information:

Lab ID:	20101091-01	Client Sample ID:	West Quad Hose Bib-East Side
Collection Date:	10/22/2020 1:42:00 PM	Collected By:	Andy Chasteen
Matrix:	Drinking Water	Sample Location:	West Quad Hose Bib-East Side

Trace Metals by EPA 200.8 ICP-MS						Analyst: KMC			
Analyses	Result	Qual	MRL	Units	DF	Date Analyzed	MCL	NELAP Status	
Lead	0.0360	*	0.000100	mg/L	1	10/26/2020	0.0150	A	

QUALIFIERS	*	Value exceeds Maximum Contaminant Level.	C1	Sample container temperature is out of limit as specified at testcod
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	MI	Recovery outside control 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

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QC SUMMARY REPORT

WO#: 20101091
28-Oct-20

Client: Medford School District
Project: 18-20 Howard 2020 Lead Testing

TestCode: LEAD_DW

Sample ID: MB-7407	SampType: MBLK	TestCode: LEAD_DW	Units: mg/L	Prep Date: 10/23/2020	RunNo: 15562
Client ID: PBW	Batch ID: 7407	TestNo: E200.8	E200.8	Analysis Date: 10/26/2020	SeqNo: 235847
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Lead ND 0.000100

Sample ID: LCS-7407	SampType: LCS	TestCode: LEAD_DW	Units: mg/L	Prep Date: 10/23/2020	RunNo: 15562
Client ID: LCSW	Batch ID: 7407	TestNo: E200.8	E200.8	Analysis Date: 10/26/2020	SeqNo: 235848
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Lead 0.102 0.000100 0.1000 0 102 85 115

Sample ID: 20101042-01AMS	SampType: MS	TestCode: LEAD_DW	Units: mg/L	Prep Date: 10/23/2020	RunNo: 15562
Client ID: BatchQC	Batch ID: 7407	TestNo: E200.8	E200.8	Analysis Date: 10/26/2020	SeqNo: 235850
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Lead 0.0959 0.000100 0.1000 0.0001190 95.8 70 130

Sample ID: 20101042-01AMSD	SampType: MSD	TestCode: LEAD_DW	Units: mg/L	Prep Date: 10/23/2020	RunNo: 15562
Client ID: BatchQC	Batch ID: 7407	TestNo: E200.8	E200.8	Analysis Date: 10/26/2020	SeqNo: 235851
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Lead 0.0983 0.000100 0.1000 0.0001190 98.2 70 130 0.09591 2.49 20

Qualifiers:

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

Original

Sample Log-In Check List

Client Name: **MedfordSchoolDist**

Work Order Number: **20101091**

RcptNo: **1**

Logged by: **Tamra Schmedemann** **10/22/2020 1:59:00 PM**

Completed By: **Krizzle Calip** **10/23/2020 8:10:23 AM**

Reviewed By: **Tamra Schmedemann** **10/28/2020 3:47:58 PM**

Tamra Schmedemann

Krizzle Calip

Tamra Schmedemann

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes ☐ No ☐ NA ☒
4. Shipping container/cooler in good condition? Yes ☒ No ☐
Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☒
No. Seal Date: Signed By:
5. Was an attempt made to cool the samples? Yes ☐ No ☐ NA ☒
6. Were all samples received at a temperature of >0° C to 6.0°C Yes ☐ No ☐ NA ☒
7. Sample(s) in proper container(s)? Yes ☒ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
10. Was preservative added to bottles? Yes ☒ No ☐ NA ☐
11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes ☐ No ☐ HNO3 pH<2
No VOA Vials ☒
12. Were any sample containers received broken? Yes ☐ No ☒
13. Does paperwork match bottle labels? Yes ☒ No ☐
(Note discrepancies on chain of custody)
14. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
15. Is it clear what analyses were requested? Yes ☒ No ☐
16. Were all holding times able to be met? Yes ☒ No ☐
(If no, notify customer for authorization.)

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: Date:
By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions:

18. Additional remarks:

Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
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Chain of Custody Record

Page 1 of 3

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

Section A

Required Client Information

Company: MSD 549C	
Address: 815 South Oakdale Avenue	
Medford, OR 97501	
Email: <u>ron.havnear@medford.k12.or.us</u>	
Phone: 541-840-4315 Fax:	
Collected By (Print): <u>Andy Chasteen</u>	
Collected By (Sign): <u>[Signature]</u>	
Email Report ☐ Yes ☐ No	Mail Report ☐ Yes ☐ No
Fax Report ☐ Yes ☐ No	

Section B

Required Project Information

Project Name:	2020 Lead Testing
Project Number:	18- 20 Howard
Report	ron.havnier@medford.k12.or.us
Copy To	andy.chasteen@medford.k12.or.us

Section C
Invoice Information

Attention:	Accounting
Company Name:	Medford School District
Address:	815 South Oakdale Avenue
	Medford, OR 97501
P.O. #	61172

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
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Section E
Sample Information

Sample ID	Bottle	Matrix*	Date Collected	Time Collect
West Quad Hosebib - East Side		DW	10/22/2020	1:42
				P

Analysis Requested

[illegible][illegible]

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

Section I
Relinquish/Receive Sign

Relinquished By:	<i>Andy J. Cross</i>
Received By:	

Received By:	<i>[Signature]</i>
Relinquished By:	
Received By:	

Relinquished By: _____
Received By Laboratory: Amber Schmitt

AWAY CASTER

Date	10/22/20
------	----------

Time	1:59
------	------

Temp:	CMM	
4°C +/- 2°C:	Yes	No ☒
Received on Ice:	Yes	No ☒

Number of Bottles Received: 1
pH Checked: 0.7

COC Seals Intact: ☐ Yes ☒ No ☒ NA
Field Blank Included: ☒ Yes ☐ No

-
- 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.