



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

June 11, 2019

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

RE: 18-00 Central 2019 Lead Testing

Order No.: 19051187

Dear Andy Chasteen:

Neilson Research Corporation received 3 sample(s) on 5/30/2019 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



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Case Narrative

WO#: 19051187
Date: 6/11/2019

CLIENT: Medford School District

Project: 18-00 Central 2019 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.

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Analytical Report

WO#: 19051187
 Date Reported: 6/11/2019

Medford School District
 815 S Oakdale Ave
 Medford, OR 97501

Lab Order: 19051187
Received Date: 5/30/2019 9:00:00 AM
Reported Date: 6/11/2019

Sample Information:

Lab ID: 19051187-01 Client Sample ID: Room 142B (E)-Sink (5-Island)
 Collection Date: 5/30/2019 8:00:00 AM Collected By: Roger M.
 Matrix: Drinking Water Sample Location: Room 142B (E)-Sink (5-Island)

| Trace Metals by EPA 200.8 ICP-MS | | | | | | | | Analyst: SJS |
|----------------------------------|--------|------|----------|-------|----|---------------|--------|--------------|
| Analyses | Result | Qual | MRL | Units | DF | Date Analyzed | MCL | NELAP Status |
| Lead | 0.181 | * | 0.000100 | mg/L | 1 | 6/4/2019 | 0.0150 | |

Lab ID: 19051187-02 Client Sample ID: Room 142A (W)-Sink (3-Island)
 Collection Date: 5/30/2019 7:58:00 AM Collected By: Roger M.
 Matrix: Drinking Water Sample Location: Room 142A (W)-Sink (3-Island)

| Trace Metals by EPA 200.8 ICP-MS | | | | | | | | Analyst: SJS |
|----------------------------------|--------|------|--------|-------|-----|---------------|--------|--------------|
| Analyses | Result | Qual | MRL | Units | DF | Date Analyzed | MCL | NELAP Status |
| Lead | 4.08 | * | 0.0100 | mg/L | 100 | 6/6/2019 | 0.0150 | |

Lab ID: 19051187-03 Client Sample ID: Across From Room 290 Unisex RR-Sink
 Collection Date: 5/30/2019 8:03:00 AM Collected By: Roger M.
 Matrix: Drinking Water Sample Location: Across From Room 290 Unisex RR-Sink

| Trace Metals by EPA 200.8 ICP-MS | | | | | | | | Analyst: SJS |
|----------------------------------|---------|------|----------|-------|----|---------------|--------|--------------|
| Analyses | Result | Qual | MRL | Units | DF | Date Analyzed | MCL | NELAP Status |
| Lead | 0.00163 | | 0.000100 | mg/L | 1 | 6/4/2019 | 0.0150 | |

| | | |
|-------------------|--|--|
| 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 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#: 19051187
 11-Jun-19

Client: Medford School District
Project: 18-00 Central 2019 Lead Testing

TestCode: LEAD_DW

| | | | | | | | | | | | |
|--------------------------|-----------------------|--------------------------|--------------------|--------------------------------|---------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: MB-717 | SampType: MBLK | TestCode: LEAD_DW | Units: mg/L | Prep Date: 6/4/2019 | RunNo: 1553 | | | | | | |
| Client ID: PBW | Batch ID: 717 | TestNo: E200.8 | E200.8 | Analysis Date: 6/4/2019 | SeqNo: 28926 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Lead | ND | 0.000100 | | | | | | | | | |

| | | | | | | | | | | | |
|---------------------------|----------------------|--------------------------|--------------------|--------------------------------|---------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: LCS-717 | SampType: LCS | TestCode: LEAD_DW | Units: mg/L | Prep Date: 6/4/2019 | RunNo: 1553 | | | | | | |
| Client ID: LCSW | Batch ID: 717 | TestNo: E200.8 | E200.8 | Analysis Date: 6/4/2019 | SeqNo: 28927 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Lead | 0.0968 | 0.000100 | 0.1000 | 0 | 96.8 | 85 | 115 | | | | |

| | | | | | | | | | | | |
|----------------------------------|----------------------|--------------------------|--------------------|--------------------------------|---------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: 19051275-01AMS | SampType: MS | TestCode: LEAD_DW | Units: mg/L | Prep Date: 6/4/2019 | RunNo: 1553 | | | | | | |
| Client ID: BatchQC | Batch ID: 717 | TestNo: E200.8 | E200.8 | Analysis Date: 6/4/2019 | SeqNo: 28935 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Lead | 0.0957 | 0.000100 | 0.1000 | 0.00009200 | 95.6 | 70 | 130 | | | | |

| | | | | | | | | | | | |
|-----------------------------------|----------------------|--------------------------|--------------------|--------------------------------|---------------------|----------|-----------|-------------|-------|----------|------|
| Sample ID: 19051275-01AMSD | SampType: MSD | TestCode: LEAD_DW | Units: mg/L | Prep Date: 6/4/2019 | RunNo: 1553 | | | | | | |
| Client ID: BatchQC | Batch ID: 717 | TestNo: E200.8 | E200.8 | Analysis Date: 6/4/2019 | SeqNo: 28936 | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Lead | 0.0965 | 0.000100 | 0.1000 | 0.00009200 | 96.4 | 70 | 130 | 0.09573 | 0.832 | 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



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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: MSD 549C Address: 815 South Oakdale Avenue Medford, OR 97501 Email: ron.havnjear@medford.k12.or.us Phone: 541-840-4315 Fax: | | Section B Required Project Information Project Name: 2019 Lead Testing Project Number: 18-00 Central Report To ron.havnjear@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) <input checked="" type="checkbox"/> Standard 10-14 Days <input type="checkbox"/> 5 Business Days (50% surcharge) <input type="checkbox"/> 3 Business Days (75% surcharge) <input type="checkbox"/> 24 - 48 hours (100% surcharge) Other _____ Authorized Yes ___ No ___ | |
|--|--|---|--|--|--|--|--|

Collected By (Print): *Roger Mowbray*
 Collected By (Sign): *[Signature]*
 Email Report ___ Yes ___ No ___ Mail Report ___ Yes ___ No ___
 Fax Report ___ Yes ___ No ___

| Section E Sample Information | Sample ID | Bottle # | Matrix* | Date Collected | Time Collected | No. of Containers | Analysis Requested | Remarks/Field Data | NRC Sample # (Lab Use Only) |
|---|-----------|----------|---------|----------------|----------------|-------------------|--------------------|--------------------|-----------------------------|
| Room 142B (East) - Sink (5 - Island) | | | DW | 5/30/2019 | 8:00 | 1 | | | 19051187 |
| Room 142A (West) - Sink (3 - island) | | | DW | 5/30/2019 | 7:58 | 1 | | | 011A |
| Across From Room 290 Unisex Restroom - Sink | | | DW | 5/30/2019 | 8:09 | 1 | | | 02A |
| | | | | | | 1 | | | 031A |
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| Section F | Section G |
|--|---|
| Relinquished/Receive | Lab Use Only |
| Relinquished By: <i>[Signature]</i> | Temp: <i>UMMD</i> |
| Received By: <i>[Signature]</i> | 4°C +/- 2°C: Yes Yes No No |
| Relinquished By: | Received on Ice: Yes Yes No No |
| Received By: | Number of Bottles Received: <i>3</i> |
| Relinquished By: <i>[Signature]</i> | pH Checked: |
| Received By Laboratory: <i>[Signature]</i> | COC Seals Intact: Yes No NA |
| | Field Blank Included: Yes No |
| | Received Via UPS FedEX Other <input checked="" type="checkbox"/> Ha |
| | Payment: <input checked="" type="checkbox"/> Invoice Cash VISA/M/C Check # Amount |

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

| Print | Date | Time |
|-----------------------|----------------|----------------|
| <i>Roger Moulton</i> | <i>5-30-19</i> | <i>9:00 AM</i> |
| <i>Jordan Merrill</i> | <i>5-30-19</i> | <i>9:00</i> |

- 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.