



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

September 10, 2020

Ben Klayman  
Medford Water Commission  
200 S. Ivy Room 177  
Medford, OR 97501  
TEL: (541) 774-2728  
FAX (541) 774-2555

RE: Special Bacteria

Order No.: 20090350

Dear Ben Klayman:

Neilson Research Corporation received 1 sample(s) on 9/9/2020 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



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

## Case Narrative

WO#: 20090350  
Date: 9/10/2020

---

**CLIENT:** Medford Water Commission

**Project:** Special Bacteria

---

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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Website: www.nrclabs.com

## Analytical Report

WO#: 20090350  
Date Reported: 9/10/2020

**CLIENT:** Medford Water Commission  
**Lab ID:** 20090350-01  
**Client Sample ID:** Medford Water Commission  
**Project:** Special Bacteria  
**Sample Location:** S Pac Hwy MTR Connection  
**Sample Address:**

**Collection Date:** 9/9/2020 11:35:00 AM  
**Received Date:** 9/9/2020 11:51:00 AM  
**Matrix:** DRINKING WATER  
**PWS #:** 41-00513  
**Source ID:** DIST-A  
**Sample Collector:** BOB DAWSON  
**Residual Chlorine:** .51

Analyses	Method	NELAP Status	Result	Qual	Units	Date Analyzed/Analyst
----------	--------	--------------	--------	------	-------	-----------------------

### TOTAL COLIFORM BACTERIA BY COLILERT

Total Coliform Bacteria	A9223B	A	Absent		P/A	09/09/20 12:28 CEM
E. Coli Bacteria	A9223B	A	Absent		P/A	09/09/20 12:28 CEM

### QUALIFIERS

C1	Sample container temperature is out of limit as specified at testcode	H	Holding times for preparation or analysis exceeded
MI	Recovery outside control limits due to Matrix Interference	ND	Not Detected at the Reporting Limit
PL	Permit Limit		

Original

### NELAP

NELAP A Accredited. ORELAP 100016, OR-028



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September 10, 2020

Ben Klayman  
Medford Water Commission  
200 S. Ivy Room 177  
Medford, OR 97501  
TEL: (541) 774-2728  
FAX (541) 774-2555

RE: Special Bacteria

Order No.: 20090353

Dear Ben Klayman:

Neilson Research Corporation received 1 sample(s) on 9/9/2020 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,  
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Website: [www.nrclabs.com](http://www.nrclabs.com)

## Case Narrative

WO#: 20090353  
Date: 9/10/2020

---

**CLIENT:** Medford Water Commission

**Project:** Special Bacteria

---

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.

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## Analytical Report

WO#: 20090353  
Date Reported: 9/10/2020

**CLIENT:** Medford Water Commission  
**Lab ID:** 20090353-01  
**Client Sample ID** Medford Water Commission  
**Project:** Special Bacteria  
**Sample Location:** Sample Station at Bridge  
**Sample Address:**

**Collection Date:** 9/9/2020 11:25:00 AM  
**Received Date:** 9/9/2020 11:51:00 AM  
**Matrix:** DRINKING WATER  
**PWS #:** 41-00513  
**Source ID:** DIST-A  
**Sample Collector:** BOB D  
**Residual Chlorine:** .80

Analyses	Method	NELAP Status	Result	Qual	Units	Date Analyzed/Analyst
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### TOTAL COLIFORM BACTERIA BY COLILERT

Total Coliform Bacteria	A9223B	A	Absent		P/A	09/09/20 17:26 DJK
E. Coli Bacteria	A9223B	A	Absent		P/A	09/09/20 17:26 DJK

### QUALIFIERS

C1	Sample container temperature is out of limit as specified at testcode	H	Holding times for preparation or analysis exceeded
MI	Recovery outside control limits due to Matrix Interference	ND	Not Detected at the Reporting Limit
PL	Permit Limit		

Original

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September 23, 2020

Ben Klayman  
Medford Water Commission  
200 S. Ivy Room 177  
Medford, OR 97501  
TEL: (541) 774-2728  
FAX: (541) 774-2555

RE: BTEX

Order No.: 20090775

Dear Ben Klayman:

Neilson Research Corporation received 1 sample(s) on 9/18/2020 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,  
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Tamra Schmedemann  
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## Case Narrative

WO#: 20090775  
Date: 9/23/2020

---

**CLIENT:** Medford Water Commission

**Project:** BTEX

---

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.

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## Analytical Report

WO#: 20090775  
Date Reported: 9/23/2020

**CLIENT:** Medford Water Commission  
**Lab ID:** 20090775-01A  
**Client Sample ID:** Charlotte Anne Pump St SS (I)  
**Project:** BTEX  
**Sample Location:** Grab  
**Sample Address:**

**Collection Date:** 9/18/2020 7:55:00 AM  
**Received Date:** 9/18/2020 8:16:00 AM  
**Matrix:** DRINKING WATER  
**PWS #:** 41-00513  
**Source ID:** DIST-A  
**Sample Collector:** JULIE ALVIS

Analyses	Code	Method	NELAP		Qual	DF	RL Units	Date		Analyst
			Status	Result				MCL	Analyzed	
Benzene	2990	E524.2	A	ND	1		0.000500 mg/L	0.00500	09/23/20 1:05	CSB
Ethylbenzene	2992	E524.2	A	ND	1		0.000500 mg/L	0.700	09/23/20 1:05	CSB
Toluene	2991	E524.2	A	ND	1		0.000500 mg/L	1.00	09/23/20 1:05	CSB
Xylenes, Total	2955	E524.2	A	ND	1		0.000500 mg/L	10.0	09/23/20 1:05	CSB
Surr: Dibromofluoromethane		E524.2	A	91.8	1		80 - 120 %Rec		09/23/20 1:05	CSB
Surr: Toluene-d8		E524.2		98.4	1		80 - 120 %Rec		09/23/20 1:05	CSB
Surr: 4-Bromofluorobenzene		E524.2		100	1		80 - 120 %Rec		09/23/20 1:05	CSB

### QUALIFIERS

CI	Sample container temperature is out of limit as specified at testcode	H	Holding times for preparation or analysis exceeded
MI	Recovery outside control limits due to Matrix Interference	ND	Not Detected at the Reporting Limit
PL	Permit Limit		

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## QC SUMMARY REPORT

WO#: 20090775  
23-Sep-20

Client: Medford Water Commission  
Project: BTEX

TestCode: EPA524.2\_DW

Sample ID: <b>LCS</b>	SampType: <b>LCS</b>	TestCode: <b>EPA524.2_D</b>	Units: <b>mg/L</b>	Prep Date:				RunNo: <b>14717</b>			
Client ID: <b>LCSW</b>	Batch ID: <b>R14717</b>	TestNo: <b>E524.2</b>	Analysis Date: <b>9/22/2020</b>				SeqNo: <b>220900</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	0.0190	0.000500	0.02000	0	95.1	70	130				
Ethylbenzene	0.0201	0.000500	0.02000	0	100	70	130				
Toluene	0.0198	0.000500	0.02000	0	99.0	70	130				
Xylenes, Total	0.0612	0.000500	0.06000	0	102	70	130				
Surr: Dibromofluoromethane	0.0403		0.04000		101	80	120				
Surr: Toluene-d8	0.0402		0.04000		100	80	120				
Surr: 4-Bromofluorobenzene	0.0402		0.04000		100	80	120				

Sample ID: <b>MBLK</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA524.2_D</b>	Units: <b>mg/L</b>	Prep Date:	RunNo: <b>14717</b>						
Client ID: <b>PBW</b>	Batch ID: <b>R14717</b>	TestNo: <b>E524.2</b>		Analysis Date: <b>9/22/2020</b>	SeqNo: <b>221085</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.000500									
Ethylbenzene	ND	0.000500									
Toluene	ND	0.000500									
Xylenes, Total	ND	0.000500									
Surr: Dibromofluoromethane	0.0379		0.04000		94.8	80	120				
Surr: Toluene-d8	0.0399		0.04000		99.7	80	120				
Surr: 4-Bromofluorobenzene	0.0401		0.04000		100	80	120				

Qualifiers: C1 Sample container temperature is out of limit as specified at testcode  
ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded  
PL Permit Limit

MI Recovery outside control limits due to Matrix In  
RL Reporting Detection Limit

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## QC SUMMARY REPORT

WO#: 20090775  
23-Sep-20

Client: Medford Water Commission  
Project: BTEX

TestCode: EPA524.2\_DW

Sample ID: 20090894-01AMS	SampType: MS	TestCode: EPA524.2_D	Units: mg/L	Prep Date:	RunNo: 14717						
Client ID: BatchQC	Batch ID: R14717	TestNo: E524.2		Analysis Date: 9/23/2020	SeqNo: 221095						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	0.0202	0.000500	0.02000	0	101	70	130				
Ethylbenzene	0.0210	0.000500	0.02000	0	105	70	130				
Toluene	0.0208	0.000500	0.02000	0	104	70	130				
Xylenes, Total	0.0630	0.000500	0.06000	0	105	70	130				
Surr: Dibromofluoromethane	0.0396		0.04000		99.1	80	120				
Surr: Toluene-d8	0.0408		0.04000		102	80	120				
Surr: 4-Bromofluorobenzene	0.0408		0.04000		102	80	120				

Sample ID: 20090894-01AMSD	SampType: MSD	TestCode: EPA524.2_D	Units: mg/L	Prep Date:					RunNo: 14717		
Client ID: BatchQC	Batch ID: R14717	TestNo: E524.2	Analysis Date: 9/23/2020					SeqNo: 221096			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	0.0207	0.000500	0.02000	0	104	70	130	0.02023	2.44	20	
Ethylbenzene	0.0219	0.000500	0.02000	0	109	70	130	0.02100	4.15	20	
Toluene	0.0216	0.000500	0.02000	0	108	70	130	0.02081	3.77	20	
Xylenes, Total	0.0660	0.000500	0.06000	0	110	70	130	0.06305	4.57	20	
Surr: Dibromofluoromethane	0.0395		0.04000		98.8	80	120		0	0	
Surr: Toluene-d8	0.0401		0.04000		100	80	120		0	0	
Surr: 4-Bromofluorobenzene	0.0405		0.04000		101	80	120		0	0	

Qualifiers: C1 Sample container temperature is out of limit as specified at testcode  
ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded  
PL Permit Limit

MI Recovery outside control limits due to Matrix In  
RL Reporting Detection Limit

Original

## Sample Log-In Check List

Client Name: **MedfordWaterCom**

Work Order Number: **20090775**

RcptNo: **1**

Logged by: **Tamra Schmedemann** **9/18/2020 8:16:00 AM**

Completed By: **Naomi Orr** **9/18/2020 12:05:17 PM**

Reviewed By: **Naomi Orr** **9/18/2020 12:05:20 PM**

*Tamra Schmedemann*

*Naomi Orr*

*Naomi Orr*

### 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  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? Yes ☐ No ☒ NA ☐

### Samples were collected the same day and chilled.

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 ☐ No VOA Vials ☐  
12. Were any sample containers received broken? Yes ☐ No ☒  
13. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐  
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?  
(If no, notify customer for authorization.) Yes ☒ No ☐

### 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
1	15.5	Good				NKO

# Chain of Custody Record

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

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

## Section A

### Required Client Information

Company: Medford Water Commission

Address: 200 S. Ivy  
Medford, OR

Email: \_\_\_\_\_

Phone: 541-774-2400 Fax: \_\_\_\_\_

Collected By (Print): Julie M. Alois

Collected By (Sign): Julie M. Alois

Email Report ☐ Mail Report ☐ Fax Report ☐

## Section B

### Required Project Information

Project Name: \_\_\_\_\_

Project Number: \_\_\_\_\_

Report To: Ben Klayman

Copy To: \_\_\_\_\_

## Section C

### Invoice Information

Attention: \_\_\_\_\_

Company Name: \_\_\_\_\_

Address: \_\_\_\_\_

P.O. # \_\_\_\_\_

## Section D

### Rush Status (Subject to Scheduling)

☐ Standard: 10 Business Days

☐ Priority: 5 Business Days (List x 1.50)

☐ Express: 3 Business Days (List x 1.75)

☐ Rush: 2 Business Days (List x 2.00)

☐ Rush: 1 Business Day (List x 2.50)

☐ Rush: Same Day (List x 3.00)

Authorized ☐ Yes ☐ No

## Section E

### Sample Information

Sample ID	Comp/Grab	Matrix*	Date Collected	Time Collected	No. of Containers	Analysis Requested										NRC Workorder # (Lab Use Only)	Remarks / Field Data	NRC Sample # (Lab Use Only)	(Lab
<u>Charlotte Anne Pump St. (I)</u>			<u>9/18/20</u>	<u>7:55 AM</u>	<u>1</u>	<u>BTEX Benzene</u>										<u>20090775</u>	<u>SS (I)</u>	<u>01</u>	

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

## Section F

### Relinquish/Receive

Relinquish/Receive	Sign	Print	Date	Time
Relinquished By: <u>Julie M. Alois</u>	<u>Julie M. Alois</u>	<u>Julie M. Alois</u>	<u>9/18/20</u>	<u>8:16</u>
Received By: _____	_____	_____	_____	_____
Relinquished By: _____	_____	_____	_____	_____
Received By: _____	_____	_____	_____	_____
Relinquished By: _____	_____	_____	_____	_____
Received By Laboratory: <u>Tamra Schmiedemann</u>	<u>Tamra Schmiedemann</u>	<u>Tamra Schmiedemann</u>	<u>9/18/2020</u>	<u>8:16</u>

## Section G

### Lab Use Only

Temp: 15.5°C

≤6°C: ☒ Yes ☐ No

Received on Ice: ☒ Yes ☐ No

Number of Bottles Received: 5

pH Checked: N/A

COC Seals Intact: ☐ Yes ☒ No NA

Field Blank Included: ☐ Yes ☒ No

Received Via ☐ UPS ☐ FedEx ☐ Other ☒ Hand

Payment: ☒ Invoice ☐ Cash ☐ VISA, M/C ☐ Check # \_\_\_\_\_ Amount \_\_\_\_\_



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October 19, 2020

Ben Klayman  
Medford Water Commission  
200 S. Ivy Room 177  
Medford, OR 97501  
TEL: (541) 774-2728  
FAX: (541) 774-2555

RE: Special BTEX Testing

Order No.: 20100841

Dear Ben Klayman:

Neilson Research Corporation received 4 sample(s) on 10/16/2020 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



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

## Case Narrative

WO#: 20100841  
Date: 10/19/2020

---

**CLIENT:** Medford Water Commission

**Project:** Special BTEX Testing

---

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Website: www.nrclabs.com

## Analytical Report

WO#: 20100841  
Date Reported: 10/19/2020

**CLIENT:** Medford Water Commission  
**Lab ID:** 20100841-01A  
**Client Sample ID:** Charlotte Anne Pump St SS (I)  
**Project:** Special BTEX Testing  
**Sample Location:** Charlotte Anne Pump St SS (I)  
**Sample Address:**

**Collection Date:** 10/16/2020 2:30:00 AM  
**Received Date:** 10/16/2020 4:25:00 PM  
**Matrix:** DRINKING WATER  
**PWS #:** 41-00513  
**Source ID:** DIST-A  
**Sample Collector:** JULIE ALVIS

Analyses	Code	Method	NELAP		Qual	DF	RL Units	Date		Analyst
			Status	Result				MCL	Analyzed	
Benzene	2990	E524.2	A	ND	1		0.000500 mg/L	0.00500	10/17/20 20:41	CSB
Ethylbenzene	2992	E524.2	A	ND	1		0.000500 mg/L	0.700	10/17/20 20:41	CSB
Toluene	2991	E524.2	A	ND	1		0.000500 mg/L	1.00	10/17/20 20:41	CSB
Xylenes, Total	2955	E524.2	A	ND	1		0.000500 mg/L	10.0	10/17/20 20:41	CSB
Surr: Dibromofluoromethane		E524.2	A	99.8	1		80 - 120 %Rec		10/17/20 20:41	CSB
Surr: Toluene-d8		E524.2		99.0	1		80 - 120 %Rec		10/17/20 20:41	CSB
Surr: 4-Bromofluorobenzene		E524.2		101	1		80 - 120 %Rec		10/17/20 20:41	CSB

### QUALIFIERS

CI	Sample container temperature is out of limit as specified at testcode	H	Holding times for preparation or analysis exceeded
MI	Recovery outside control limits due to Matrix Interference	ND	Not Detected at the Reporting Limit
PL	Permit Limit		

Original

### NELAP

NELAP A Accredited, ORELAP 100016, OR-028





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Website: www.nrclabs.com

## Analytical Report

WO#: 20100841  
Date Reported: 10/19/2020

**CLIENT:** Medford Water Commission  
**Lab ID:** 20100841-02A  
**Client Sample ID:** North Ridge Estate 344  
**Project:** Special BTEX Testing  
**Sample Location:** North Ridge Estate 344  
**Sample Address:**

**Collection Date:** 10/16/2020 3:40:00 PM  
**Received Date:** 10/16/2020 4:25:00 PM  
**Matrix:** DRINKING WATER  
**PWS #:** 41-00513  
**Source ID:** DIST-A  
**Sample Collector:** JULIE ALVIS

Analyses	Code	Method	NELAP		Qual	DF	RL Units	Date		Analyst
			Status	Result				MCL	Analyzed	
Benzene	2990	E524.2	A	ND	1		0.000500 mg/L	0.00500	10/17/20 21:03	CSB
Ethylbenzene	2992	E524.2	A	ND	1		0.000500 mg/L	0.700	10/17/20 21:03	CSB
Toluene	2991	E524.2	A	ND	1		0.000500 mg/L	1.00	10/17/20 21:03	CSB
Xylenes, Total	2955	E524.2	A	ND	1		0.000500 mg/L	10.0	10/17/20 21:03	CSB
Surr: Dibromofluoromethane		E524.2	A	98.2	1		80 - 120 %Rec		10/17/20 21:03	CSB
Surr: Toluene-d8		E524.2		99.3	1		80 - 120 %Rec		10/17/20 21:03	CSB
Surr: 4-Bromofluorobenzene		E524.2		101	1		80 - 120 %Rec		10/17/20 21:03	CSB

### QUALIFIERS

CI	Sample container temperature is out of limit as specified at testcode	H	Holding times for preparation or analysis exceeded
MI	Recovery outside control limits due to Matrix Interference	ND	Not Detected at the Reporting Limit
PL	Permit Limit		

Original

### NELAP

NELAP A Accredited, ORELAP 100016, OR-028



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

## Analytical Report

WO#: 20100841  
Date Reported: 10/19/2020

**CLIENT:** Medford Water Commission  
**Lab ID:** 20100841-03A  
**Client Sample ID:** Air Valve at 3848 Carefree MV  
**Project:** Special BTEX Testing  
**Sample Location:** Air Valve at 3848 Carefree MV  
**Sample Address:**

**Collection Date:** 10/16/2020 3:50:00 PM  
**Received Date:** 10/16/2020 4:25:00 PM  
**Matrix:** DRINKING WATER  
**PWS #:** 41-00513  
**Source ID:** DIST-A  
**Sample Collector:** JULIE ALVIS

Analyses	Code	Method	NELAP		Qual	DF	RL Units	Date		Analyst
			Status	Result				MCL	Analyzed	
Benzene	2990	E524.2	A	ND	1		0.000500 mg/L	0.00500	10/17/20 21:26	CSB
Ethylbenzene	2992	E524.2	A	ND	1		0.000500 mg/L	0.700	10/17/20 21:26	CSB
Toluene	2991	E524.2	A	ND	1		0.000500 mg/L	1.00	10/17/20 21:26	CSB
Xylenes, Total	2955	E524.2	A	ND	1		0.000500 mg/L	10.0	10/17/20 21:26	CSB
Surr: Dibromofluoromethane		E524.2	A	97.3	1		80 - 120 %Rec		10/17/20 21:26	CSB
Surr: Toluene-d8		E524.2		98.0	1		80 - 120 %Rec		10/17/20 21:26	CSB
Surr: 4-Bromofluorobenzene		E524.2		101	1		80 - 120 %Rec		10/17/20 21:26	CSB

### QUALIFIERS

CI	Sample container temperature is out of limit as specified at testcode	H	Holding times for preparation or analysis exceeded
MI	Recovery outside control limits due to Matrix Interference	ND	Not Detected at the Reporting Limit
PL	Permit Limit		

Original

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## Analytical Report

WO#: 20100841  
Date Reported: 10/19/2020

**CLIENT:** Medford Water Commission  
**Lab ID:** 20100841-04A  
**Client Sample ID:** Coleman at S. Pac. (L)  
**Project:** Special BTEX Testing  
**Sample Location:** Coleman at S. Pac. (L)  
**Sample Address:**

**Collection Date:** 10/16/2020 4:05:00 PM  
**Received Date:** 10/16/2020 4:25:00 PM  
**Matrix:** DRINKING WATER  
**PWS #:** 41-00513  
**Source ID:** DIST-A  
**Sample Collector:** JULIE ALVIS

Analyses	Code	Method	NELAP		Qual	DF	RL Units	Date		Analyst
			Status	Result				MCL	Analyzed	
Benzene	2990	E524.2	A	ND	1		0.000500 mg/L	0.00500	10/17/20 21:49	CSB
Ethylbenzene	2992	E524.2	A	ND	1		0.000500 mg/L	0.700	10/17/20 21:49	CSB
Toluene	2991	E524.2	A	ND	1		0.000500 mg/L	1.00	10/17/20 21:49	CSB
Xylenes, Total	2955	E524.2	A	ND	1		0.000500 mg/L	10.0	10/17/20 21:49	CSB
Surr: Dibromofluoromethane		E524.2	A	98.3	1		80 - 120 %Rec		10/17/20 21:49	CSB
Surr: Toluene-d8		E524.2		96.3	1		80 - 120 %Rec		10/17/20 21:49	CSB
Surr: 4-Bromofluorobenzene		E524.2		100	1		80 - 120 %Rec		10/17/20 21:49	CSB

### QUALIFIERS

CI	Sample container temperature is out of limit as specified at testcode	H	Holding times for preparation or analysis exceeded
MI	Recovery outside control limits due to Matrix Interference	ND	Not Detected at the Reporting Limit
PL	Permit Limit		

Original

### NELAP

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Website: www.nrclabs.com

## QC SUMMARY REPORT

WO#: 20100841  
19-Oct-20

Client: Medford Water Commission  
Project: Special BTEX Testing

TestCode: EPA524.2\_DW

Sample ID: <b>LCS</b>	SampType: <b>LCS</b>	TestCode: <b>EPA524.2_D</b>	Units: <b>mg/L</b>	Prep Date:				RunNo: <b>15403</b>			
Client ID: <b>LCSW</b>	Batch ID: <b>R15403</b>	TestNo: <b>E524.2</b>	Analysis Date: <b>10/17/2020</b>				SeqNo: <b>233215</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	0.0201	0.000500	0.02000	0	101	70	130				
Ethylbenzene	0.0203	0.000500	0.02000	0	101	70	130				
Toluene	0.0198	0.000500	0.02000	0	98.8	70	130				
Xylenes, Total	0.0604	0.000500	0.06000	0	101	70	130				
Surr: Dibromofluoromethane	0.0404		0.04000		101	80	120				
Surr: Toluene-d8	0.0398		0.04000		99.6	80	120				
Surr: 4-Bromofluorobenzene	0.0402		0.04000		100	80	120				

Sample ID: <b>MBLK</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA524.2_D</b>	Units: <b>mg/L</b>	Prep Date:	RunNo: <b>15403</b>						
Client ID: <b>PBW</b>	Batch ID: <b>R15403</b>	TestNo: <b>E524.2</b>		Analysis Date: <b>10/17/2020</b>	SeqNo: <b>233217</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.000500									
Ethylbenzene	ND	0.000500									
Toluene	ND	0.000500									
Xylenes, Total	ND	0.000500									
Surr: Dibromofluoromethane	0.0380		0.04000		95.1	80	120				
Surr: Toluene-d8	0.0394		0.04000		98.5	80	120				
Surr: 4-Bromofluorobenzene	0.0410		0.04000		102	80	120				

Qualifiers: C1 Sample container temperature is out of limit as specified at testcode  
ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded  
PL Permit Limit

MI Recovery outside control limits due to Matrix In  
RL Reporting Detection Limit

Original



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## QC SUMMARY REPORT

WO#: 20100841  
19-Oct-20

Client: Medford Water Commission  
Project: Special BTEX Testing

TestCode: EPA524.2\_DW

Sample ID: 20100833-01AMS	SampType: MS	TestCode: EPA524.2_D	Units: mg/L	Prep Date:				RunNo: 15403			
Client ID: BatchQC	Batch ID: R15403	TestNo: E524.2	Analysis Date: 10/17/2020				SeqNo: 233226				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	0.0195	0.000500	0.02000	0	97.7	70	130				
Ethylbenzene	0.0193	0.000500	0.02000	0	96.6	70	130				
Toluene	0.0190	0.000500	0.02000	0	95.1	70	130				
Xylenes, Total	0.0583	0.000500	0.06000	0	97.2	70	130				
Surr: Dibromofluoromethane	0.0413		0.04000		103	80	120				
Surr: Toluene-d8	0.0401		0.04000		100	80	120				
Surr: 4-Bromofluorobenzene	0.0407		0.04000		102	80	120				

Sample ID: 20100833-01AMSD	SampType: MSD	TestCode: EPA524.2_D	Units: mg/L	Prep Date:	RunNo: 15403						
Client ID: BatchQC	Batch ID: R15403	TestNo: E524.2		Analysis Date: 10/17/2020	SeqNo: 233227						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	0.0209	0.000500	0.02000	0	104	70	130	0.01953	6.73	20	
Ethylbenzene	0.0205	0.000500	0.02000	0	103	70	130	0.01931	5.98	20	
Toluene	0.0206	0.000500	0.02000	0	103	70	130	0.01902	7.83	20	
Xylenes, Total	0.0623	0.000500	0.06000	0	104	70	130	0.05830	6.59	20	
Surr: Dibromofluoromethane	0.0416		0.04000		104	80	120		0	0	
Surr: Toluene-d8	0.0405		0.04000		101	80	120		0	0	
Surr: 4-Bromofluorobenzene	0.0404		0.04000		101	80	120		0	0	

Qualifiers: C1 Sample container temperature is out of limit as specified at testcode  
ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded  
PL Permit Limit

MI Recovery outside control limits due to Matrix In  
RL Reporting Detection Limit

Original

## Sample Log-In Check List

Client Name: **MedfordWaterCom**

Work Order Number: **20100841**

RcptNo: **1**

Logged by: **Naomi Orr** **10/16/2020 4:25:00 PM**



Completed By: **Naomi Orr** **10/16/2020 4:47:20 PM**



Reviewed By: **Naomi Orr** **10/16/2020 4:47:22 PM**



### 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  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? Yes ☐ No ☒ NA ☐

### Samples were collected the same day and chilled.

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 ☐ No VOA Vials ☐  
12. Were any sample containers received broken? Yes ☐ No ☒  
13. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐  
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?  
(If no, notify customer for authorization.) Yes ☒ No ☐

### 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
1	15.3	Good				NKO

# Chain of Custody Record

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

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

For investigative purposes only NO

Section A Required Client Information		Section B Required Project Information		Section C Invoice Information		Section D Rush Status (Subject to Scheduling)	
Company: <u>Medford Water Commission</u>		Project Name:		Attention:		<input type="checkbox"/> Standard: 10 Business Days <input type="checkbox"/> Priority: 5 Business Days (List x 1.50) <input type="checkbox"/> Express: 3 Business Days (List x 1.75) <input type="checkbox"/> Rush: 2 Business Days (List x 2.00) <input type="checkbox"/> Rush: 1 Business Day (List x 2.50) <input type="checkbox"/> Rush: Same Day (List x 3.00)	
Address:		Project Number:		Company Name:			
		Report To:		Address:			
Email:		Copy To:					
Phone:                      Fax:				P.O. #			
Collected By (Print):							
Collected By (Sign):							
Email Report ____ Mail Report ____ Fax Report ____							

Section E Sample Information					No. of Containers <u>VOC's-BTEX</u>	Analysis Requested										NRC Workorder # (Lab Use Only) <u>20100841</u>		
Sample ID	Comp/Grab	Matrix*	Date Collected	Time Collected												Remarks / Field Data	NRC Sample # Use Only	(Lab)
<u>Charlotte Anne Pump (I)</u>			<u>10/16/20</u>	<u>2:30pm</u>	<u>6</u>	<u>X</u>											<u>01</u>	
<u>North Ridge Estate 34</u>			<u>10/16/20</u>	<u>3:40pm</u>	<u>5</u>	<u>X</u>											<u>02</u>	
<u>Air Valve @ 3848 Carefree</u>			<u>10/16/20</u>	<u>3:50pm</u>	<u>5</u>	<u>X</u>											<u>03</u>	
<u>Mobile UTillage</u>			<u>10/16/20</u>	<u>4:05pm</u>	<u>5</u>	<u>X</u>											<u>04</u>	
<u>Coleman @ S. Pac. (L)</u>			<u>10/16/20</u>	<u>4:05pm</u>	<u>5</u>	<u>X</u>												

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

Section F Relinquish/Receive				Section G Lab Use Only			
Relinquished By:	Sign	Print	Date	Time	Temp:	IR Therm ID:	
Relinquished By:	<u>Julie M. Alvis</u>	<u>Julie M. Alvis</u>	<u>10/16/20</u>	<u>4:35pm</u>	<u>15.30C</u>		
Received By:					≤6°C: <input type="checkbox"/> Yes <input type="checkbox"/> No		
Relinquished By:					Received on Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Received By:					Number of Bottles Received:		
Relinquished By:					pH Checked:		
Received By Laboratory:	<u>Naomi Orr</u>	<u>Naomi Orr</u>	<u>10-16-2020</u>	<u>16:25</u>	COC Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA		
					Field Blank Included: <input type="checkbox"/> Yes <input type="checkbox"/> No		
					Received Via <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Other <input checked="" type="checkbox"/> Hand		
					Payment: <input checked="" type="checkbox"/> Invoice <input type="checkbox"/> Cash <input type="checkbox"/> VISA, M/C <input type="checkbox"/> Check # _____ Amount _____		





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October 26, 2020

Ben Klayman  
Medford Water Commission  
200 S. Ivy Room 177  
Medford, OR 97501  
TEL: (541) 774-2728  
FAX: (541) 774-2555

RE: Special Bacterias and HPCs

Order No.: 20100842

Dear Ben Klayman:

Neilson Research Corporation received 4 sample(s) on 10/16/2020 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





Neilson Research Corporation  
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Website: [www.nrclabs.com](http://www.nrclabs.com)

## Case Narrative

WO#: 20100842  
Date: 10/26/2020

---

**CLIENT:** Medford Water Commission

**Project:** Special Bacterias and HPCs

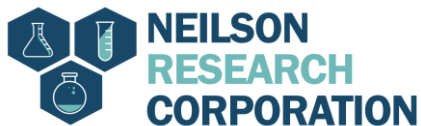
---

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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Website: www.nrclabs.com

## Analytical Report

WO#: 20100842

Date Reported: 10/26/2020

**CLIENT:** Medford Water Commission

**Lab ID:** 20100842-01

**Client Sample ID:** I

**Project:** Special Bacterias and HPCs

**Sample Location:** I

**Sample Address:**

**Collection Date:** 10/16/2020 2:30:00 PM

**Received Date:** 10/16/2020 4:25:00 PM

**Matrix:** DRINKING WATER

**PWS #:** 41-00513

**Source ID:** DIST-A

**Sample Collector:** JULIE ALVIS

**Residual Chlorine:** .64

Analyses	Method	NELAP Status	Result	Qual	Units	Date Analyzed/Analyst
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### TOTAL COLIFORM BACTERIA BY COLILERT

Total Coliform Bacteria	A9223B	A	Absent		P/A	10/16/20 17:32 DJK
E. Coli Bacteria	A9223B	A	Absent		P/A	10/16/20 17:32 DJK

### HETEROTROPHIC PLATE COUNT BY MODIFIED SM 9215 B

Heterotrophic Plate Count	A9215B		ND		CFU/mL	10/16/20 17:52 DJK
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#### QUALIFIERS

CI Sample container temperature is out of limit as specified at testcode  
MI Recovery outside control limits due to Matrix Interference  
PL Permit Limit

H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit

Original

#### NELAP

NELAP A Accredited, ORELAP 100016, OR-028



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## Analytical Report

WO#: 20100842

Date Reported: 10/26/2020

**CLIENT:** Medford Water Commission

**Lab ID:** 20100842-02

**Client Sample ID:** North Ridge Est #344

**Project:** Special Bacterias and HPCs

**Sample Location:** North Ridge Est #344

**Sample Address:**

**Collection Date:** 10/16/2020 3:40:00 PM

**Received Date:** 10/16/2020 4:25:00 PM

**Matrix:** DRINKING WATER

**PWS #:** 41-00513

**Source ID:** DIST-A

**Sample Collector:** JULIE ALVIS

**Residual Chlorine:** .51

Analyses	Method	NELAP Status	Result	Qual	Units	Date Analyzed/Analyst
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### TOTAL COLIFORM BACTERIA BY COLILERT

Total Coliform Bacteria	A9223B	A	Absent		P/A	10/16/20 17:32 DJK
E. Coli Bacteria	A9223B	A	Absent		P/A	10/16/20 17:32 DJK

### HETEROTROPHIC PLATE COUNT BY MODIFIED SM 9215 B

Heterotrophic Plate Count	A9215B		1.00		CFU/mL	10/16/20 17:52 DJK
---------------------------	--------	--	------	--	--------	--------------------

#### QUALIFIERS

CI Sample container temperature is out of limit as specified at testcode  
MI Recovery outside control limits due to Matrix Interference  
PL Permit Limit

H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit

Original

#### NELAP

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## Analytical Report

WO#: 20100842

Date Reported: 10/26/2020

**CLIENT:** Medford Water Commission  
**Lab ID:** 20100842-03  
**Client Sample ID** Air Valve at 3848 Carefee MV  
**Project:** Special Bacterias and HPCs  
**Sample Location:** Air Valve at 3848 Carefee MV  
**Sample Address:**

**Collection Date:** 10/16/2020 3:50:00 PM  
**Received Date:** 10/16/2020 4:25:00 PM  
**Matrix:** DRINKING WATER  
**PWS #:** 41-00513  
**Source ID:** DIST-A  
**Sample Collector:** JULIE ALVIS  
**Residual Chlorine:** .56

Analyses	Method	NELAP Status	Result	Qual	Units	Date Analyzed/Analyst
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### TOTAL COLIFORM BACTERIA BY COLILERT

Total Coliform Bacteria	A9223B	A	Absent		P/A	10/16/20 17:32 DJK
E. Coli Bacteria	A9223B	A	Absent		P/A	10/16/20 17:32 DJK

### HETEROTROPHIC PLATE COUNT BY MODIFIED SM 9215 B

Heterotrophic Plate Count	A9215B		1.00		CFU/mL	10/16/20 17:52 DJK
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### QUALIFIERS

CI	Sample container temperature is out of limit as specified at testcode	H	Holding times for preparation or analysis exceeded
MI	Recovery outside control limits due to Matrix Interference	ND	Not Detected at the Reporting Limit
PL	Permit Limit		

Original

### NELAP

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## Analytical Report

WO#: 20100842

Date Reported: 10/26/2020

**CLIENT:** Medford Water Commission  
**Lab ID:** 20100842-04  
**Client Sample ID** Coleman at S. Pacific Hwy  
**Project:** Special Bacterias and HPCs  
**Sample Location:** Coleman at S. Pacific Hwy  
**Sample Address:**

**Collection Date:** 10/16/2020 4:05:00 PM  
**Received Date:** 10/16/2020 4:25:00 PM  
**Matrix:** DRINKING WATER  
**PWS #:** 41-00513  
**Source ID:** DIST-A  
**Sample Collector:** JULIE ALVIS  
**Residual Chlorine:** .44

Analyses	Method	NELAP Status	Result	Qual	Units	Date Analyzed/Analyst
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### TOTAL COLIFORM BACTERIA BY COLILERT

Total Coliform Bacteria	A9223B	A	Absent		P/A	10/16/20 17:32 DJK
E. Coli Bacteria	A9223B	A	Absent		P/A	10/16/20 17:32 DJK

### HETEROTROPHIC PLATE COUNT BY MODIFIED SM 9215 B

Heterotrophic Plate Count	A9215B		4.00		CFU/mL	10/16/20 17:52 DJK
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#### QUALIFIERS

CI	Sample container temperature is out of limit as specified at testcode	H	Holding times for preparation or analysis exceeded
MI	Recovery outside control limits due to Matrix Interference	ND	Not Detected at the Reporting Limit
PL	Permit Limit		

Original

#### NELAP

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