

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

Tamong Symedeman

Tamra Schmedemann Senior Project Manager

245 S Grape St Medford, OR 97501









**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.



Website: www.nrclabs.com

## **Analytical Report**

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

**CLIENT:** Medford Water Commission

20090350-01 Lab ID:

Client Sample ID Medford Water Commission

Special Bacteria **Project:** 

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	Recult Onal		Units	Date Analyzed/Analyst
TOTAL COLIFORM BAC	CTERIA BY C	OLILERT				
Total Coliform Bacteria E. Coli Bacteria	A9223B A9223B	A A	Absent Absent		P/A P/A	09/09/20 12:28 CEM 09/09/20 12:28 CEM

QUALIFIERS

PL Permit Limit ND Not Detected at the Reporting Limit

Original

Sample container temperature is out of limit as specified at testcode

MI Recovery outside comtrol limits due to Matrix Interference

Holding times for preparation or analysis exceeded



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,

Neilson Research Corporation

Tamong Symedeman

Tamra Schmedemann Senior Project Manager

245 S Grape St Medford, OR 97501









**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.

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.



Website: www.nrclabs.com

## **Analytical Report**

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

**CLIENT:** Medford Water Commission

20090353-01 Lab ID:

Client Sample ID Medford Water Commission

Special Bacteria **Project:** 

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
TOTAL COLIFORM BAC	TERIA BY C	OLILERT				
Total Coliform Bacteria E. Coli Bacteria	A9223B A9223B	A A	Absent Absent		P/A P/A	09/09/20 17:26 DJK 09/09/20 17:26 DJK

QUALIFIERS

PL Permit Limit ND Not Detected at the Reporting Limit

Original

Sample container temperature is out of limit as specified at testcode

MI Recovery outside comtrol limits due to Matrix Interference

Holding times for preparation or analysis exceeded



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,

**Neilson Research Corporation** 

Tampa Stomederman

Tamra Schmedemann Senior Project Manager

245 S Grape St Medford, OR 97501









**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.

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.



### **Analytical Report**

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

**CLIENT:** Medford Water Commission

Lab ID: 20090775-01A

 $\begin{cal}Client Sample ID & Charlotte Anne Pump St SS (I) \end{cal}$ 

**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

			NELAI	Date				
Analyses	Code	Method	Status	Result	DF	RL Units	MCL Analyzed	Analyst
Benzene	2990	E524.2	Α	ND	1	0.000500 mg/L	0.00500 09/23/20 1:05	CSB
Ethylbenzene	2992	E524.2	Α	ND	1	0.000500 mg/L	0.700 09/23/20 1:05	CSB
Toluene	2991	E524.2	Α	ND	1	0.000500 mg/L	1.00 09/23/20 1:05	CSB
Xylenes, Total	2955	E524.2	Α	ND	1	0.000500 mg/L	10.0 09/23/20 1:05	CSB
Surr: Dibromofluoromethane		E524.2	Α	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

Sample container temperature is out of limit as specified at testcode MI

Recovery outside comtrol limits due to Matrix Interference

Permit Limit

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Original



# **QC SUMMARY REPORT**

WO#: 20

20090775

23-Sep-20

**Client:** Medford Water Commission

Project: BTEX TestCode: EPA524.2\_DW

Sample ID: LCS	SampType: LCS	TestCod	de: <b>EPA524.2</b> _	_D Units: mg/L		Prep Da	te:		RunNo: <b>147</b>	<b>717</b>	
Client ID: LCSW	Batch ID: <b>R14717</b>	TestN	lo: <b>E524.2</b>			Analysis Da	te: <b>9/22/20</b>	20	SeqNo: <b>220</b>	900	
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: MBI K	SampType: MRI K	TestCoo	de: <b>FP\(\Delta\)</b> 524 2	D Units: ma/l		Prep Da	te:		RunNo: 147	717	
Sample ID: MBLK Client ID: PBW	SampType: MBLK Batch ID: R14717		de: <b>EPA524.2</b> No: <b>E524.2</b>	_D Units: mg/L		Prep Da Analysis Da		20	RunNo: <b>147</b> SeqNo: <b>22</b> 1		
			_	_D Units: mg/L  SPK Ref Val	%REC			<b>20</b> RPD Ref Val			Qual
Client ID: PBW	Batch ID: <b>R14717</b>	TestN	lo: <b>E524.2</b>	-	%REC	Analysis Da	te: <b>9/22/20</b>		SeqNo: <b>22</b> 1	1085	Qual
Client ID: <b>PBW</b> Analyte	Batch ID: R14717  Result	TestN PQL	lo: <b>E524.2</b>	-	%REC	Analysis Da	te: <b>9/22/20</b>		SeqNo: <b>22</b> 1	1085	Qual
Client ID: PBW Analyte Benzene	Batch ID: R14717  Result	PQL 0.000500	lo: <b>E524.2</b>	-	%REC	Analysis Da	te: <b>9/22/20</b>		SeqNo: <b>22</b> 1	1085	Qual
Client ID: PBW Analyte Benzene Ethylbenzene	Batch ID: R14717  Result  ND  ND	PQL 0.000500 0.000500	lo: <b>E524.2</b>	-	%REC	Analysis Da	te: <b>9/22/20</b>		SeqNo: <b>22</b> 1	1085	Qual
Client ID: PBW  Analyte  Benzene Ethylbenzene Toluene	Batch ID: R14717  Result  ND  ND  ND	PQL 0.000500 0.000500 0.000500	lo: <b>E524.2</b>	-	%REC	Analysis Da	te: <b>9/22/20</b>		SeqNo: <b>22</b> 1	1085	Qual
Client ID: PBW  Analyte  Benzene Ethylbenzene Toluene Xylenes, Total	Batch ID: R14717  Result  ND  ND  ND  ND  ND	PQL 0.000500 0.000500 0.000500	SPK value	-		Analysis Da	te: <b>9/22/20</b> HighLimit		SeqNo: <b>22</b> 1	1085	Qual

Qualifiers: C1 Sample

Sample container temperature is out of limit as specified at testcode

Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded

PL Permit Limit

Recovery outside comtrol limits due to Matrix In

RL Reporting Detection Limit



# **QC SUMMARY REPORT**

WO#: **20090775** 

23-Sep-20

**Client:** Medford Water Commission

Project: BTEX TestCode: EPA524.2\_DW

Sample ID: 20090894-01AMS	SampType: MS	TestCo	TestCode: EPA524.2_D Units: mg/L			Prep Date:			RunNo: <b>147</b>		
Client ID: BatchQC	Batch ID: <b>R14717</b>	TestNo: <b>E524.2</b>				Analysis Da	te: <b>9/23/20</b>	20	SeqNo: <b>221095</b>		
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	TestCo	TestCode: <b>EPA524.2_D</b> Units: <b>mg/L</b>			Prep Date:			RunNo: <b>147</b>		
Client ID: BatchQC	Batch ID: <b>R14717</b>	TestN		Analysis Da	te: <b>9/23/20</b>	20	SeqNo: <b>221096</b>				
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

Holding times for preparation or analysis exceeded

Permit Limit

RL Reporting Detection Limit

Reporting Detection Limit

MI Recovery outside comtrol limits due to Matrix In



Sample Log-In Check List

Website: www.nrclabs.com Client Name: MedfordWaterCom Work Order Number: 20090775 RcptNo: 1 Tamra Schmedemann 9/18/2020 8:16:00 AM Logged by: Tampa Symederman 9/18/2020 12:05:17 PM Completed By: Naomi Orr Reviewed By: Naomi Orr 9/18/2020 12:05:20 PM **Chain of Custody** Yes 🗹 No 🗌 Not Present 1. Is Chain of Custody complete? 2. How was the sample delivered? Client Log In Yes 🗸 No 🗌 NA 🗌 3 Coolers are present? Yes 🗹 No 🗌 4 Shipping container/cooler in good condition? No 🗌 Yes Custody seals intact on shipping container/cooler? Not Present ✓ Seal Date: Signed By: Yes 🗸 NA 🗌 5. Was an attempt made to cool the samples? Yes 🗌 No 🗸 NA  $\square$ 6. Were all samples received at a temperature of >0° C to 6.0°C 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)? No  $\square$ 9. Are samples (except VOA and ONG) properly preserved? Yes No 🗆 10. Was preservative added to bottles? Yes NA 🗸 11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? No VOA Vials No 🗸 Yes 12. Were any sample containers received broken? 13. Does paperwork match bottle labels? Yes (Note discrepancies on chain of custody) 14. Are matrices correctly identified on Chain of Custody? 15. Is it clear what analyses were requested? 16. Were all holding times able to be met? Yes (If no, notify customer for authorization.) Special Handling (if applicable) NA 🗸 17. Was client notified of all discrepancies with this order? Yes Person Notified: Date: eMail Phone Fax By Whom: Via: In Person Regarding: Client Instructions:

18. Additional remarks:

#### **Cooler Information**

Cooler No	Temp ⁰C	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		Section E	3 Project Inforn	nation			Section Invoice	n C e Informat	ion			Section D Rush Status (Sut	bject to Scheduling)	
Company: Medford water	Commis						Attenti						) Business Days	
Address: 200 S. TVJ	00.7077500	Project N					Compa	ny Name:				Priority: 5 Bu	usiness Days (List × 1.50)	
medford, or	> ,	Report To	Bon	Klay	env	2117	Addres	s:				Express: 3 Business Days (List × 1.75)		
Email:		Сору То:		0	Y/K			- Intime				Rush: 2 Bus	iness Days (List × 2.00)	
Phone: 541-774-245 Fax:							P.O. #		a distribution			Rush: 1 Bus	iness Day (List × 2.50)	
							ner						Day (List × 3.00)	
Collected By (Sign):	alues	- 11400				Je J	-	nalysis Re	equested			Aut	horized Yes No	
Email Report Mail Report Fax Report _		1				1 22	4 = 11	in land	u gy - u	1207				
		J				enze								
Section E Sample Information	submit to de each in the proper		r er jandi, di ben	nomic witten	tainers	X B						NRC Workorder #	20090775	
Sample ID	Comp/Grab	Matrix*	Date Collected	Time Collected	No. of Containers	BTE						Remarks / Field Data	NRC Sample # Use Only)	(Lab
Charlotter Anne Pump St.	(I)		9/18/20	7:55A	1							55(I)	01	
1.00							year o		a var	710	200	THE WAY STATE OF	nu a Karpal Roll	
and the state of t	20/E 10 2 2 11		111144 111114	11		7 1951			41164	100	ing the land		S - V S A HEALT CONTRACTOR	
1			1 2 2 5 9 1	917.	-	100		10 100	3 2 71	47 3	15 100 2	7 + 154		
		100	Maria Carlos	Upday Types		4 100							ELICE WILL	
			of Section partial labor							4 10				
Harman Harry Jacob I - Day	SERVICE IN	4,461	, nes and	On V										
the trial DW Delation Water May Western W.	Water 0 0-11/0	111 01 0		MD 14" 0			1			1000	or 1:0s	119	9,013,249	
*Matrix: DW - Drinking Water WW - Wastewater W  Section F  Relinquish/Receive Sign	- vvater 3 - 3011/3	olid SL-S	studge O - Oil	VVP - VVIpe O		er		Date	9	Tir	ne	Section G Lab Use Only	/ /0	
Relinquished By:	ali		Juli	EM.	A	Vic		9/18/	20	8:	16	Temp:	19,50	
Received By:	Tipl , Tresmott	ulter propi		- 1 g Septem		150.500	T HIDD					≤6°C: Yes _	No	
Relinquished By:			government of	41=1		and the second	11000		1 100		971	Received on Ice: _	Yes No	
Received By:	agrico carringo	anglest s	etal sagi	Los		H-WF-		4-1516	0 18	UEA . IL		Number of Bottles	Received: 5	
Relinquished By:						1		01 60		-1.	./	pH Checked:	16A	
Received By Laboratory: James Solly	noolema	U -	James	Sell	me	deman	m	01/18/	202	78:	14		Yes No/NA	
										Po	reived Vic	UPS FedEX _	ed:Yes No	
							8	Payment:	V Inv	oice		UPS FedEX _ VISA, M/C Checl		
					ъ	age 7 of		ayment.	<del></del>		_00311	_vion, ivi/o check		6/19/2020



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** 

Tampa Stomederman

Tamra Schmedemann Senior Project Manager

245 S Grape St Medford, OR 97501









**Case Narrative** 

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

**CLIENT:** Medford Water Commission **Project:** Special BTEX 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.



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

			NELAI	Date				
Analyses	Code	Method	Status	Result	DF	RL Units	MCL Analyzed A	nalyst
Benzene	2990	E524.2	Α	ND	1	0.000500 mg/L	0.00500 10/17/20 20:41	CSB
Ethylbenzene	2992	E524.2	Α	ND	1	0.000500 mg/L	0.700 10/17/20 20:41	CSB
Toluene	2991	E524.2	Α	ND	1	0.000500 mg/L	1.00 10/17/20 20:41	CSB
Xylenes, Total	2955	E524.2	Α	ND	1	0.000500 mg/L	10.0 10/17/20 20:41	CSB
Surr: Dibromofluoromethane		E524.2	Α	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

Sample container temperature is out of limit as specified at testcode MI Recovery outside comtrol limits due to Matrix Interference

Permit Limit

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Original

**NELAP** 



### **Analytical Report**

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

**CLIENT:** Medford Water Commission

Lab ID: 20100841-02A

Sample Address:

Client Sample ID North Ridge Estate 344 **Project: Special BTEX Testing** Sample Location: North Ridge Estate 344 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	NELAI Status	•	ual DF	RL Units	Date MCL Analyzed A	nalyst
Benzene	2990	E524.2	Α	ND	1	0.000500 mg/L	0.00500 10/17/20 21:03	CSB
Ethylbenzene	2992	E524.2	Α	ND	1	0.000500 mg/L	0.700 10/17/20 21:03	CSB
Toluene	2991	E524.2	Α	ND	1	0.000500 mg/L	1.00 10/17/20 21:03	CSB
Xylenes, Total	2955	E524.2	Α	ND	1	0.000500 mg/L	10.0 10/17/20 21:03	CSB
Surr: Dibromofluoromethane		E524.2	Α	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

Sample container temperature is out of limit as specified at testcode MI

Recovery outside comtrol limits due to Matrix Interference

Permit Limit

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Original



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	NELAI Status	•	ual DF	RL Units	Date MCL Analyzed A	nalyst
Benzene	2990	E524.2	А	ND	1	0.000500 mg/L	0.00500 10/17/20 21:26	CSB
Ethylbenzene	2992	E524.2	Α	ND	1	0.000500 mg/L	0.700 10/17/20 21:26	CSB
Toluene	2991	E524.2	Α	ND	1	0.000500 mg/L	1.00 10/17/20 21:26	CSB
Xylenes, Total	2955	E524.2	Α	ND	1	0.000500 mg/L	10.0 10/17/20 21:26	CSB
Surr: Dibromofluoromethane		E524.2	Α	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

Sample container temperature is out of limit as specified at testcode MI

Recovery outside comtrol limits due to Matrix Interference

Permit Limit

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Original

Accredited. ORELAP 100016, OR-028 **NELAP** 



### **Analytical Report**

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

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

**CLIENT:** Medford Water Commission

Lab ID: 20100841-04A

**Client Sample ID** Coleman at S. Pac. (L) **Project:** Sample Location: Coleman at S. Pac. (L)

Special BTEX Testing

Sample Address: Sample Collector: JULIE ALVIS

Analyses	Code	Method	NELAI Status	•	ual DF	RL Units	Date MCL Analyzed A	nalyst
Benzene	2990	E524.2	Α	ND	1	0.000500 mg/L	0.00500 10/17/20 21:49	CSB
Ethylbenzene	2992	E524.2	Α	ND	1	0.000500 mg/L	0.700 10/17/20 21:49	CSB
Toluene	2991	E524.2	Α	ND	1	0.000500 mg/L	1.00 10/17/20 21:49	CSB
Xylenes, Total	2955	E524.2	Α	ND	1	0.000500 mg/L	10.0 10/17/20 21:49	CSB
Surr: Dibromofluoromethane		E524.2	Α	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

Sample container temperature is out of limit as specified at testcode MI

Recovery outside comtrol limits due to Matrix Interference

Permit Limit

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Original

Accredited. ORELAP 100016, OR-028 **NELAP** 



# **QC SUMMARY REPORT**

WO#: **20100841** 

19-Oct-20

**Client:** Medford Water Commission

Project: Special BTEX Testing TestCode: EPA524.2\_DW

Sample ID: LCS	SampType: LCS	TestCo	de: <b>EPA524.2</b> _	TestCode: EPA524.2_D Units: mg/L			te:		RunNo: <b>15403</b>		
Client ID: LCSW	Batch ID: R15403	TestN	No: <b>E524.2</b>			Analysis Da	te: 10/17/2	2020	SeqNo: 233	3215	
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: MBLK	SampType: MBLK	TestCo	de: <b>EPA524.2</b> _	D Units: mg/L		Prep Da	te:		RunNo: <b>15</b> 4	<del>1</del> 03	
Sample ID: MBLK Client ID: PBW	SampType: MBLK Batch ID: R15403		de: <b>EPA524.2</b> _ No: <b>E524.2</b>	D Units: mg/L		Prep Da Analysis Da		2020	RunNo: <b>15</b> 4 SeqNo: <b>23</b> 3		
			_	D Units: mg/L SPK Ref Val	%REC	•		2020 RPD Ref Val			Qual
Client ID: PBW	Batch ID: <b>R15403</b>	TestN	No: <b>E524.2</b>	-	%REC	Analysis Da	te: 10/17/2		SeqNo: 233	3217	Qual
Client ID: <b>PBW</b> Analyte	Batch ID: R15403 Result	TestN PQL	No: <b>E524.2</b>	-	%REC	Analysis Da	te: 10/17/2		SeqNo: 233	3217	Qual
Client ID: PBW Analyte Benzene	Batch ID: R15403  Result	PQL 0.000500	No: <b>E524.2</b>	-	%REC	Analysis Da	te: 10/17/2		SeqNo: 233	3217	Qual
Client ID: PBW  Analyte  Benzene Ethylbenzene	Batch ID: R15403  Result  ND ND	PQL 0.000500 0.000500	No: <b>E524.2</b>	-	%REC	Analysis Da	te: 10/17/2		SeqNo: 233	3217	Qual
Client ID: PBW  Analyte  Benzene Ethylbenzene Toluene	Batch ID: R15403  Result  ND ND ND	PQL 0.000500 0.000500 0.000500	No: <b>E524.2</b>	-	%REC	Analysis Da	te: 10/17/2		SeqNo: 233	3217	Qual
Client ID: PBW  Analyte  Benzene Ethylbenzene Toluene Xylenes, Total	Batch ID: R15403  Result  ND ND ND ND ND	PQL 0.000500 0.000500 0.000500	SPK value	-		Analysis Da	te: <b>10/17/2</b> HighLimit		SeqNo: 233	3217	Qual

Qualifiers: C1 Sample container temperature is out of limit as specified at testcode

D Not Detected at the Reporting Limit

Holding times for preparation or analysis exceeded

PL Permit Limit

I Recovery outside comtrol limits due to Matrix In

RL Reporting Detection Limit



# **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 TestNo: E524.2			Prep Date:			RunNo: <b>15403</b>			
Client ID: BatchQC	Batch ID: <b>R15403</b>	I estr	No: <b>E524.2</b>			Analysis Da	te: <b>10/17/2</b>	020	SeqNo: <b>233226</b>		
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: <b>15403</b>		
Client ID: BatchQC	Batch ID: <b>R15403</b>	TestNo: <b>E524.2</b>			Analysis Date: 10/17/2020				SeqNo: <b>233227</b>		
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	

Sample container temperature is out of limit as specified at testcode Qualifiers:

Not Detected at the Reporting Limit

Holding times for preparation or analysis exceeded

Permit Limit

Recovery outside comtrol limits due to Matrix In

Reporting Detection Limit



Neilson Research Corporation 245 S Grape St Medford, OR 97501

TEL: (541) 770-5678 FAX: (541) 770-2901 Website: www.nrclabs.com

# Sample Log-In Check List

Client Name:	MedfordWater	Com Work Order Nu	mber: <b>2010084</b> 1		RcptNo:	1
Logged by:	Naomi Orr	10/16/2020 4:25:	00 PM	10.0	~	
Completed B	y: Naomi Orr	10/16/2020 4:47:	20 PM	10.0 10.0 10.0	~	
Reviewed By	: Naomi Orr	10/16/2020 4:47:	22 PM	10.0	~	
Chain of C	<u>ustody</u>					
1. Is Chain	of Custody comple	ete?	Yes 🛂	No 🗆	Not Present	
2. How was	the sample delive	ered?	Client			
<u>Log In</u>						
3. Coolers	are present?		Yes 🛂	No 🗆	NA $\square$	
	container/cooler in	ŭ	Yes ✓	_		
•	seals intact on shi	pping container/cooler?	Yes L	│ No │ │	Not Present	
No.		Seal Date:	Signed	-		
5. Was an	attempt made to co	ool the samples?	Yes ⊌	<sup>1</sup> No □	NA L	
6. Were all	samples received	at a temperature of >0° C to 6.0°C	C Yes	No <b>✓</b>	na 🗆	
		Samples v	vere collected th	ne same day and c	hilled.	
7. Sample(	s) in proper contair		Yes 🛂			
8. Sufficien	t sample volume fo	or indicated test(s)?	Yes 💌	No 🗆		
9. Are sam	ples (except VOA	and ONG) properly preserved?	Yes 🛂	No 🗆		
-	servative added to		Yes	□ No □	NA 🗸	
10.					NA	
11. Is the he	adspace in the VC	A vials less than 1/4 inch or 6 mm	? Yes ⊌	No 🗆	No VOA Vials	
12. Were an	y sample containe	rs received broken?	Yes	No <b>✓</b>		
13. Does pa	perwork match bot	tle labels?	Yes 💌	No 🗆		
(Note dis	screpancies on cha	ain of custody)	_	_		
14. Are mate	ices correctly iden	tified on Chain of Custody?	Yes ⊌			
15. Is it clea	r what analyses we	ere requested?	Yes 🛂	No L		
	holding times able		Yes ⊌	No L		
	tify customer for a					
-	<u>ndling (if appl</u>	_			🗖	
17. Was clie	nt notified of all dis	screpancies with this order?	Yes	No L	NA 🗸	7
Per	son Notified:	D	ate:			
Ву	Whom:	V	ia: 🗌 eMail	☐ Phone ☐ Fax	☐ In Person	
Re	garding:					
Clie	ent Instructions:					
18. Additiona	al remarks:					
011						

#### **Cooler Information**

Cooler No	Temp ⁰C	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.

FOCUMES AND DUMPS ON WAR

CORPORATION Section A Required Client Information	Section		SAME D	JHS C1	Section			1 4	Section D Rush Status (Subject	to Scheduling)	E Sed
Company: Medford water Commissi	Project	Name:	7-1-0	1 36-a 11	Attention	:		1 - 5	Standard: 10 Bus	siness Days	
Address:		Number:			Company	y Name:			Priority: 5 Busine	ess Days (List × 1.50)	
	Report	Го:			Address:	79		of grants	Express: 3 Business Days (List × 1.75)		
Email:	Сору То	):	- 1					The state of the s	Rush: 2 Business Days (List × 2.00)		
Phone: Fax:				Transition Co.	P.O. #				-	s Day (List × 2.50)	
Collected By (Print):		and the second						100 40 100 100	Rush: Same Day		
Collected By (Sign):		· ×				alysis Reque	ested	- Carlo Paris		zed Yes No	_
						arysis reduc	J		- Additions		
Email Report Mail Report Fax Report  Section E  Sample Information	The state of the s			tainers					NRC Workorder # (Lab Use Only)	20100841	
Sample ID Comp	p/Grab Matrix	Date Collected	Time Collected	No. of Containers					Remarks / Field Data	NRC Sample # Use Only)	(Lab
Charallett Anne Pump (I)	Mar I	10/16/20	2:30p							01	
	L. Duri Dice					Altr de	1.1	(18) - Pan (1-)	THE PERSON NAMED IN	a summaria	NA.
North Ridge Estate 344		10/16/30	3:40	pmox			V. Tes			02	
Dir JAlup @ 3848 CAREFORD.		10/16/20	3.50	pm5X						02	
Mobile Urliage		10/16/20	0.00	7					CONTRACTOR OF THE PARTY	0.5	
Colemanas, Pac. (L)		10/16/20	4:05	an5X		I US 4 II		10 1 FR = 10 FR	arricant to the	40	
				0		A 100 III			enger in Last		
A CORD SERVICE ADMINISTRAL CARREST	- 1961 9		ellej Hen	65 3							
Matrius DM Drinking Webs, MIN Westquetes W Weter	C CallCalid Cl	Sludge O Oil	MR Wine O	T Other							
Matrix: DW - Drinking Water WW - Wastewater W - Water  Section F  Relinquish/Receive Sign		sal manifestation in a	Pri	int		Date		Time	Section G Lab Use Only	) n z	
Relinquished By:	alus	Juli	EM.	Aluis		10/16/2	0	4:35pm	Temp: \5,30(		
Received By:		a guille of all of					GE EI	The state of the s	≤6°C: Yes Received on Ice: X		
Relinquished By:		a second				1	199	the same of the sa	Number of Bottles Red		
Received By:				-					pH Checked:		
Received By Laboratory:		Nao	mi O	ir	10	)-16-20	20	16:25	COC Seals Intact: Yes No NA		
			III OI	V 1		(10 00)		15 00	Field Blank Included: Yes No		
								Received Via	UPSFedEX		
						Payment:	Invo	iceCashVI			



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

Tampa Stomederman

Tamra Schmedemann Senior Project Manager

245 S Grape St Medford, OR 97501









**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.



**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/A	nalyst
TOTAL COLIFORM BAC	TERIA BY C	OLILERT					
Total Coliform Bacteria	A9223B	Α	Absent		P/A	10/16/20 17:32	DJK
E. Coli Bacteria	A9223B	Α	Absent		P/A	10/16/20 17:32	DJK
HETEROTROPHIC PLAT	E COUNT B	Y MODIFIED	O SM 9215 B				
Heterotrophic Plate Count	A9215B		ND		CFU/mL	10/16/20 17:52	DJK

Sample container temperature is out of limit as specified at testcode MI

Recovery outside comtrol limits due to Matrix Interference

Permit Limit

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Original





Website: www.nrclabs.com

## **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/A	nalyst
TOTAL COLIFORM BAC	TERIA BY C	OLILERT					
Total Coliform Bacteria E. Coli Bacteria	A9223B A9223B	A A	Absent Absent		P/A P/A	10/16/20 17:32 10/16/20 17:32	DJK DJK
HETEROTROPHIC PLAT	E COUNT E	Y MODIFIED	O SM 9215 B				
Heterotrophic Plate Count	A9215B		1.00		CFU/mL	10/16/20 17:52	DJK

Sample container temperature is out of limit as specified at testcode MI

Recovery outside comtrol limits due to Matrix Interference

Permit Limit

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Original



Website: www.nrclabs.com

## **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/A	nalyst
TOTAL COLIFORM BAC	TERIA BY C	OLILERT					
Total Coliform Bacteria	A9223B	Α	Absent		P/A	10/16/20 17:32	DJK
E. Coli Bacteria	A9223B	Α	Absent		P/A	10/16/20 17:32	DJK
HETEROTROPHIC PLAT	E COUNT B	Y MODIFIED	SM 9215 B				
Heterotrophic Plate Count	A9215B		1.00		CFU/mL	10/16/20 17:52	DJK

Sample container temperature is out of limit as specified at testcode MI Recovery outside comtrol limits due to Matrix Interference

Permit Limit

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Original



Website: www.nrclabs.com

**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/A	nalyst
TOTAL COLIFORM BAC	TERIA BY C	OLILERT					
Total Coliform Bacteria	A9223B	Α	Absent		P/A	10/16/20 17:32	DJK
E. Coli Bacteria	A9223B	Α	Absent		P/A	10/16/20 17:32	DJK
HETEROTROPHIC PLAT	E COUNT B	Y MODIFIED	SM 9215 B				
Heterotrophic Plate Count	A9215B		4.00		CFU/mL	10/16/20 17:52	DJK

UALIFIER

C1 Sample container temperature is out of limit as specified at testcode MI Recovery outside comtrol limits due to Matrix Interference

PL Permit Limit

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Original

H 3