



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

November 19, 2024

Teresa Coley  
Sprague River Water Quality Lab  
5671 Sprague River Road  
Chiloquin, OR 97624  
TEL: (541) 827-5231  
FAX

RE: RES

Order No.: 24110268

Dear Teresa Coley:

Neilson Research Corporation received 13 sample(s) on 11/7/2024 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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RESEARCH  
CORPORATION**

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

## **Case Narrative**

WO#: **24110268**  
Date: **11/19/2024**

---

**CLIENT:** Sprague River Water Quality Lab

**Project:** RES

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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#: 24110268  
 Date Reported: 11/19/2024

**CLIENT:** Sprague River Water Quality Lab  
**Lab ID:** 24110268-01  
**Client Sample ID:** 4110603-01  
**Project:** RES  
**Sample Location:**

**Collection Date:** 11/5/2024 11:10:00 AM  
**Received Date:** 11/7/2024 10:15:00 AM  
**Matrix:** AQUEOUS

Analyses	Method	NELAP Status	Result Qual	DF	MDL	RL	Units	MCL	Date Analyzed	Analyst
<b>DISSOLVED TRACE METALS</b>										
Aluminum, Dissolved	E200.7	A	ND	1	0.00895	0.0200	mg/L		11/15/24 21:02	CJS
<b>TRACE METALS BY EPA 200.7 ICP</b>										
Aluminum	E200.7	A	ND	1	0.00895	0.0200	mg/L		11/13/24 18:00	CBB
<b>DISSOLVED ORGANIC CARBON BY SM 5310 C-2014</b>										
Organic Carbon, Dissolved	A5310C	A	0.342 J	1	0.192	0.500	mg/L		11/07/24 19:32	KN
<b>TOTAL ORGANIC CARBON SM 5310 C-2014</b>										
Organic Carbon, Total	A5310C	A	0.253 J	1	0.142	0.500	mg/L		11/08/24 2:29	KN

**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
- PL Permit Limit
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

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**NELAP**

NELAP A Accredited in accordance with NELAP ORELAP 100016, OR-028



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# Analytical Report

WO#: 24110268  
 Date Reported: 11/19/2024

**CLIENT:** Sprague River Water Quality Lab  
**Lab ID:** 24110268-02  
**Client Sample ID:** 4110603-02  
**Project:** RES  
**Sample Location:**

**Collection Date:** 11/5/2024 10:42:00 AM  
**Received Date:** 11/7/2024 10:15:00 AM  
**Matrix:** AQUEOUS

Analyses	Method	NELAP Status	Result Qual	DF	MDL	RL	Units	MCL	Date Analyzed	Analyst
<b>DISSOLVED TRACE METALS</b>										
Aluminum, Dissolved	E200.7	A	0.0158 J	1	0.00895	0.0200	mg/L		11/15/24 21:05	CJS
<b>TRACE METALS BY EPA 200.7 ICP</b>										
Aluminum	E200.7	A	0.322	1	0.00895	0.0200	mg/L		11/13/24 18:02	CBB
<b>DISSOLVED ORGANIC CARBON BY SM 5310 C-2014</b>										
Organic Carbon, Dissolved	A5310C	A	2.45	1	0.192	0.500	mg/L		11/07/24 20:08	KN
<b>TOTAL ORGANIC CARBON SM 5310 C-2014</b>										
Organic Carbon, Total	A5310C	A	2.41	1	0.142	0.500	mg/L		11/08/24 3:05	KN

**QUALIFIERS**

- |    |   |    |  |
|----|---|----|--|
| CI | 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       |

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# Analytical Report

WO#: 24110268  
 Date Reported: 11/19/2024

**CLIENT:** Sprague River Water Quality Lab  
**Lab ID:** 24110268-03  
**Client Sample ID:** 4110603-03  
**Project:** RES  
**Sample Location:**

**Collection Date:** 11/5/2024 9:48:00 AM  
**Received Date:** 11/7/2024 10:15:00 AM  
**Matrix:** AQUEOUS

Analyses	Method	NELAP Status	Result Qual	DF	MDL	RL	Units	MCL	Date Analyzed	Analyst
<b>DISSOLVED TRACE METALS</b>										
Aluminum, Dissolved	E200.7	A	0.0246	1	0.00895	0.0200	mg/L		11/18/24 15:56	CJS
<b>TRACE METALS BY EPA 200.7 ICP</b>										
Aluminum	E200.7	A	0.924	1	0.00895	0.0200	mg/L		11/13/24 18:05	CBB
<b>DISSOLVED ORGANIC CARBON BY SM 5310 C-2014</b>										
Organic Carbon, Dissolved	A5310C	A	2.56	1	0.192	0.500	mg/L		11/07/24 20:45	KN
<b>TOTAL ORGANIC CARBON SM 5310 C-2014</b>										
Organic Carbon, Total	A5310C	A	2.51	1	0.142	0.500	mg/L		11/08/24 3:41	KN

**QUALIFIERS**

- |    |   |    |  |
|----|---|----|--|
| CI | 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       |

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# Analytical Report

WO#: 24110268  
 Date Reported: 11/19/2024

**CLIENT:** Sprague River Water Quality Lab  
**Lab ID:** 24110268-04  
**Client Sample ID:** 4110603-04  
**Project:** RES  
**Sample Location:**

**Collection Date:** 11/5/2024 10:08:00 AM  
**Received Date:** 11/7/2024 10:15:00 AM  
**Matrix:** AQUEOUS

Analyses	Method	NELAP Status	Result	Qual	DF	MDL	RL	Units	MCL	Date Analyzed	Analyst
<b>DISSOLVED ORGANIC CARBON BY SM 5310 C-2014</b>											
Organic Carbon, Dissolved	A5310C	A	0.445	J	1	0.192	0.500	mg/L		11/07/24 21:03	KN
<b>TOTAL ORGANIC CARBON SM 5310 C-2014</b>											
Organic Carbon, Total	A5310C	A	0.320	J	1	0.142	0.500	mg/L		11/08/24 3:59	KN

**QUALIFIERS**

- |    |   |    |  |
|----|---|----|--|
| CI | 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       |

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# Analytical Report

WO#: 24110268  
 Date Reported: 11/19/2024

**CLIENT:** Sprague River Water Quality Lab  
**Lab ID:** 24110268-05  
**Client Sample ID:** 4110604-01  
**Project:** RES  
**Sample Location:** Comp

**Collection Date:** 11/5/2024 7:50:00 AM  
**Received Date:** 11/7/2024 10:15:00 AM  
**Matrix:** AQUEOUS

Analyses	Method	NELAP Status	Result Qual	DF	MDL	RL	Units	MCL	Date Analyzed	Analyst
<b>DISSOLVED TRACE METALS</b>										
Aluminum, Dissolved	E200.7	A	0.0309	1	0.00895	0.0200	mg/L		11/18/24 15:59	CJS
<b>TRACE METALS BY EPA 200.7 ICP</b>										
Aluminum	E200.7	A	1.83	1	0.00895	0.0200	mg/L		11/13/24 18:17	CBB
<b>DISSOLVED ORGANIC CARBON BY SM 5310 C-2014</b>										
Organic Carbon, Dissolved	A5310C	A	3.47	1	0.192	0.500	mg/L		11/11/24 11:19	KN
<b>TOTAL ORGANIC CARBON SM 5310 C-2014</b>										
Organic Carbon, Total	A5310C	A	3.23	1	0.142	0.500	mg/L		11/08/24 4:18	KN

**QUALIFIERS**

- |    |   |    |  |
|----|---|----|--|
| CI | 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       |

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# Analytical Report

WO#: 24110268  
 Date Reported: 11/19/2024

**CLIENT:** Sprague River Water Quality Lab  
**Lab ID:** 24110268-06  
**Client Sample ID:** 4110604-02  
**Project:** RES  
**Sample Location:** Comp

**Collection Date:** 11/5/2024 9:50:00 AM  
**Received Date:** 11/7/2024 10:15:00 AM  
**Matrix:** AQUEOUS

Analyses	Method	NELAP Status	Result Qual	DF	MDL	RL	Units	MCL	Date Analyzed	Analyst
<b>DISSOLVED TRACE METALS</b>										
Aluminum, Dissolved	E200.7	A	0.0231	1	0.00895	0.0200	mg/L		11/18/24 16:02	CJS
<b>TRACE METALS BY EPA 200.7 ICP</b>										
Aluminum	E200.7	A	1.04	1	0.00895	0.0200	mg/L		11/13/24 18:20	CBB
<b>DISSOLVED ORGANIC CARBON BY SM 5310 C-2014</b>										
Organic Carbon, Dissolved	A5310C	A	4.58	1	0.192	0.500	mg/L		11/11/24 11:37	KN
<b>TOTAL ORGANIC CARBON SM 5310 C-2014</b>										
Organic Carbon, Total	A5310C	A	4.27	1	0.142	0.500	mg/L		11/08/24 4:36	KN

**QUALIFIERS**

- |    |   |    |  |
|----|---|----|--|
| CI | 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       |

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# Analytical Report

WO#: 24110268  
 Date Reported: 11/19/2024

**CLIENT:** Sprague River Water Quality Lab  
**Lab ID:** 24110268-07  
**Client Sample ID:** 4110604-03  
**Project:** RES  
**Sample Location:** Comp

**Collection Date:** 11/5/2024 11:28:00 AM  
**Received Date:** 11/7/2024 10:15:00 AM  
**Matrix:** AQUEOUS

Analyses	Method	NELAP Status	Result Qual	DF	MDL	RL	Units	MCL	Date Analyzed	Analyst
<b>DISSOLVED TRACE METALS</b>										
Aluminum, Dissolved	E200.7	A	0.0217	1	0.00895	0.0200	mg/L		11/18/24 16:06	CJS
<b>TRACE METALS BY EPA 200.7 ICP</b>										
Aluminum	E200.7	A	1.75	1	0.00895	0.0200	mg/L		11/13/24 18:23	CBB
<b>DISSOLVED ORGANIC CARBON BY SM 5310 C-2014</b>										
Organic Carbon, Dissolved	A5310C	A	4.88	1	0.192	0.500	mg/L		11/11/24 11:55	KN
<b>TOTAL ORGANIC CARBON SM 5310 C-2014</b>										
Organic Carbon, Total	A5310C	A	4.34	1	0.142	0.500	mg/L		11/08/24 4:54	KN

**QUALIFIERS**

- |    |   |    |  |
|----|---|----|--|
| CI | 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       |

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# Analytical Report

WO#: 24110268  
 Date Reported: 11/19/2024

**CLIENT:** Sprague River Water Quality Lab  
**Lab ID:** 24110268-08  
**Client Sample ID:** 4110604-04  
**Project:** RES  
**Sample Location:** Comp

**Collection Date:** 11/5/2024 12:23:00 PM  
**Received Date:** 11/7/2024 10:15:00 AM  
**Matrix:** AQUEOUS

Analyses	Method	NELAP Status	Result Qual	DF	MDL	RL	Units	MCL	Date Analyzed	Analyst
<b>DISSOLVED ORGANIC CARBON BY SM 5310 C-2014</b>										
Organic Carbon, Dissolved	A5310C	A	5.38	1	0.192	0.500	mg/L		11/11/24 12:13	KN
<b>TOTAL ORGANIC CARBON SM 5310 C-2014</b>										
Organic Carbon, Total	A5310C	A	4.93	1	0.142	0.500	mg/L		11/08/24 5:12	KN

**QUALIFIERS**

- |    |   |    |  |
|----|---|----|--|
| CI | 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       |

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# Analytical Report

WO#: 24110268  
 Date Reported: 11/19/2024

**CLIENT:** Sprague River Water Quality Lab  
**Lab ID:** 24110268-09  
**Client Sample ID** 4110604-05  
**Project:** RES  
**Sample Location:** Comp

**Collection Date:** 11/5/2024 1:25:00 PM  
**Received Date:** 11/7/2024 10:15:00 AM  
**Matrix:** AQUEOUS

Analyses	Method	NELAP Status	Result Qual	DF	MDL	RL	Units	MCL	Date Analyzed	Analyst
<b>DISSOLVED ORGANIC CARBON BY SM 5310 C-2014</b>										
Organic Carbon, Dissolved	A5310C	A	5.26	1	0.192	0.500	mg/L		11/11/24 12:31	KN
<b>TOTAL ORGANIC CARBON SM 5310 C-2014</b>										
Organic Carbon, Total	A5310C	A	5.13	1	0.142	0.500	mg/L		11/08/24 5:30	KN

**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
- PL Permit Limit
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

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# Analytical Report

WO#: 24110268  
 Date Reported: 11/19/2024

**CLIENT:** Sprague River Water Quality Lab  
**Lab ID:** 24110268-10  
**Client Sample ID** 4110604-06  
**Project:** RES  
**Sample Location:** Comp

**Collection Date:** 11/5/2024 7:10:00 AM  
**Received Date:** 11/7/2024 10:15:00 AM  
**Matrix:** AQUEOUS

Analyses	Method	NELAP Status	Result Qual	DF	MDL	RL	Units	MCL	Date Analyzed	Analyst
<b>DISSOLVED TRACE METALS</b>										
Aluminum, Dissolved	E200.7	A	ND	1	0.00895	0.0200	mg/L		11/18/24 16:13	CJS
<b>TRACE METALS BY EPA 200.7 ICP</b>										
Aluminum	E200.7	A	ND	1	0.00895	0.0200	mg/L		11/13/24 18:26	CBB
<b>DISSOLVED ORGANIC CARBON BY SM 5310 C-2014</b>										
Organic Carbon, Dissolved	A5310C	A	0.653	1	0.192	0.500	mg/L		11/11/24 12:49	KN
<b>TOTAL ORGANIC CARBON SM 5310 C-2014</b>										
Organic Carbon, Total	A5310C	A	0.477 J	1	0.142	0.500	mg/L		11/08/24 5:48	KN

**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
- PL Permit Limit
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

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# Analytical Report

WO#: 24110268  
 Date Reported: 11/19/2024

**CLIENT:** Sprague River Water Quality Lab  
**Lab ID:** 24110268-11  
**Client Sample ID** 4110604-07  
**Project:** RES  
**Sample Location:** Comp

**Collection Date:** 11/6/2024 8:23:00 AM  
**Received Date:** 11/7/2024 10:15:00 AM  
**Matrix:** AQUEOUS

Analyses	Method	NELAP Status	Result Qual	DF	MDL	RL	Units	MCL	Date Analyzed	Analyst
<b>DISSOLVED ORGANIC CARBON BY SM 5310 C-2014</b>										
Organic Carbon, Dissolved	A5310C	A	5.19	1	0.192	0.500	mg/L		11/11/24 13:08	KN
<b>TOTAL ORGANIC CARBON SM 5310 C-2014</b>										
Organic Carbon, Total	A5310C	A	5.10	1	0.142	0.500	mg/L		11/08/24 6:43	KN

**QUALIFIERS**

- |    |   |    |  |
|----|---|----|--|
| CI | 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       |

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# Analytical Report

WO#: 24110268  
 Date Reported: 11/19/2024

**CLIENT:** Sprague River Water Quality Lab  
**Lab ID:** 24110268-12  
**Client Sample ID:** 4110604-08  
**Project:** RES  
**Sample Location:** Comp

**Collection Date:** 11/6/2024 9:18:00 AM  
**Received Date:** 11/7/2024 10:15:00 AM  
**Matrix:** AQUEOUS

Analyses	Method	NELAP Status	Result Qual	DF	MDL	RL	Units	MCL	Date Analyzed	Analyst
<b>DISSOLVED ORGANIC CARBON BY SM 5310 C-2014</b>										
Organic Carbon, Dissolved	A5310C	A	6.51	1	0.192	0.500	mg/L		11/11/24 13:26	KN
<b>TOTAL ORGANIC CARBON SM 5310 C-2014</b>										
Organic Carbon, Total	A5310C	A	6.39	1	0.142	0.500	mg/L		11/08/24 7:02	KN

**QUALIFIERS**

- |    |   |    |  |
|----|---|----|--|
| CI | 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       |

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# Analytical Report

WO#: 24110268  
 Date Reported: 11/19/2024

**CLIENT:** Sprague River Water Quality Lab  
**Lab ID:** 24110268-13  
**Client Sample ID:** 4110604-09  
**Project:** RES  
**Sample Location:** Comp

**Collection Date:** 11/6/2024 9:30:00 AM  
**Received Date:** 11/7/2024 10:15:00 AM  
**Matrix:** AQUEOUS

Analyses	Method	NELAP Status	Result Qual	DF	MDL	RL	Units	MCL	Date Analyzed	Analyst
<b>DISSOLVED ORGANIC CARBON BY SM 5310 C-2014</b>										
Organic Carbon, Dissolved	A5310C	A	6.67	1	0.192	0.500	mg/L		11/11/24 13:44	KN
<b>TOTAL ORGANIC CARBON SM 5310 C-2014</b>										
Organic Carbon, Total	A5310C	A	6.44	1	0.142	0.500	mg/L		11/08/24 7:20	KN

**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
- PL Permit Limit
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

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# QC SUMMARY REPORT

WO#: 24110268  
 19-Nov-24

**Client:** Sprague River Water Quality Lab  
**Project:** RES

**TestCode:** DOC\_W

Sample ID: <b>MB</b>	SampType: <b>MBLK</b>	TestCode: <b>DOC_W</b>	Units: <b>mg/L</b>	Prep Date: <b>11/7/2024</b>	RunNo: <b>53992</b>						
Client ID: <b>PBW</b>	Batch ID: <b>R53992</b>	TestNo: <b>A5310C</b>		Analysis Date: <b>11/7/2024</b>	SeqNo: <b>890099</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Organic Carbon, Dissolved

ND 0.500

Sample ID: <b>LCS - 15599</b>	SampType: <b>LCS</b>	TestCode: <b>DOC_W</b>	Units: <b>mg/L</b>	Prep Date: <b>11/7/2024</b>	RunNo: <b>53992</b>						
Client ID: <b>LCSW</b>	Batch ID: <b>R53992</b>	TestNo: <b>A5310C</b>		Analysis Date: <b>11/7/2024</b>	SeqNo: <b>890100</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Organic Carbon, Dissolved

3.96 0.500 3.750 0 106 90 110

Sample ID: <b>24110268-01BMS</b>	SampType: <b>MS</b>	TestCode: <b>DOC_W</b>	Units: <b>mg/L</b>	Prep Date: <b>11/7/2024</b>	RunNo: <b>53992</b>						
Client ID: <b>4110603-01</b>	Batch ID: <b>R53992</b>	TestNo: <b>A5310C</b>		Analysis Date: <b>11/7/2024</b>	SeqNo: <b>890114</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Organic Carbon, Dissolved

3.07 0.500 2.500 0.3416 109 85 115

Sample ID: <b>24110268-02BDUP</b>	SampType: <b>DUP</b>	TestCode: <b>DOC_W</b>	Units: <b>mg/L</b>	Prep Date: <b>11/7/2024</b>	RunNo: <b>53992</b>						
Client ID: <b>4110603-02</b>	Batch ID: <b>R53992</b>	TestNo: <b>A5310C</b>		Analysis Date: <b>11/7/2024</b>	SeqNo: <b>890116</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

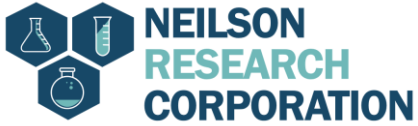
Organic Carbon, Dissolved

2.60 0.500 2.452 5.93 15

**Qualifiers:** C1 Sample container temperature is out of limit as specified at testcode E Value above quantitation range H Holding times for preparation or analysis exceed  
 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 RL Reporting Detection Limit

Original





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

# QC SUMMARY REPORT

WO#: 24110268  
 19-Nov-24

**Client:** Sprague River Water Quality Lab  
**Project:** RES

**TestCode:** DOC\_W

Sample ID: <b>MB</b>	SampType: <b>MBLK</b>	TestCode: <b>DOC_W</b>	Units: <b>mg/L</b>	Prep Date: <b>11/11/2024</b>	RunNo: <b>54045</b>
Client ID: <b>PBW</b>	Batch ID: <b>R54045</b>	TestNo: <b>A5310C</b>		Analysis Date: <b>11/11/2024</b>	SeqNo: <b>890878</b>
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Organic Carbon, Dissolved	ND	0.500			

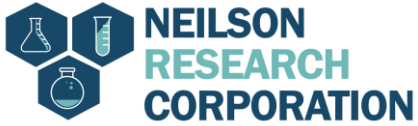
Sample ID: <b>LCS - 15599</b>	SampType: <b>LCS</b>	TestCode: <b>DOC_W</b>	Units: <b>mg/L</b>	Prep Date: <b>11/11/2024</b>	RunNo: <b>54045</b>
Client ID: <b>LCSW</b>	Batch ID: <b>R54045</b>	TestNo: <b>A5310C</b>		Analysis Date: <b>11/11/2024</b>	SeqNo: <b>890879</b>
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Organic Carbon, Dissolved	3.62	0.500	3.750	0	96.6 90 110

Sample ID: <b>24110386-04AMS</b>	SampType: <b>MS</b>	TestCode: <b>DOC_W</b>	Units: <b>mg/L</b>	Prep Date: <b>11/11/2024</b>	RunNo: <b>54045</b>
Client ID: <b>BatchQC</b>	Batch ID: <b>R54045</b>	TestNo: <b>A5310C</b>		Analysis Date: <b>11/11/2024</b>	SeqNo: <b>890898</b>
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Organic Carbon, Dissolved	4.30	0.500	2.500	1.644	106 85 115

Sample ID: <b>24110386-05ADUP</b>	SampType: <b>DUP</b>	TestCode: <b>DOC_W</b>	Units: <b>mg/L</b>	Prep Date: <b>11/11/2024</b>	RunNo: <b>54045</b>
Client ID: <b>BatchQC</b>	Batch ID: <b>R54045</b>	TestNo: <b>A5310C</b>		Analysis Date: <b>11/11/2024</b>	SeqNo: <b>890900</b>
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Organic Carbon, Dissolved	3.39	0.500			3.354 1.12 15

**Qualifiers:** C1 Sample container temperature is out of limit as specified at testcode E Value above quantitation range H Holding times for preparation or analysis exceed  
 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 RL Reporting Detection Limit

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# QC SUMMARY REPORT

WO#: 24110268  
 19-Nov-24

**Client:** Sprague River Water Quality Lab  
**Project:** RES

**TestCode:** ICP\_200.7\_W

Sample ID: <b>MB-28280</b>	SampType: <b>MBLK</b>	TestCode: <b>ICP_200.7_W</b>	Units: <b>mg/L</b>	Prep Date: <b>11/13/2024</b>	RunNo: <b>54127</b>						
Client ID: <b>PBW</b>	Batch ID: <b>28280</b>	TestNo: <b>E200.7</b>	<b>E200.7</b>	Analysis Date: <b>11/13/2024</b>	SeqNo: <b>892110</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum ND 0.0200

Sample ID: <b>LCS-28280</b>	SampType: <b>LCS</b>	TestCode: <b>ICP_200.7_W</b>	Units: <b>mg/L</b>	Prep Date: <b>11/13/2024</b>	RunNo: <b>54127</b>						
Client ID: <b>LCSW</b>	Batch ID: <b>28280</b>	TestNo: <b>E200.7</b>	<b>E200.7</b>	Analysis Date: <b>11/13/2024</b>	SeqNo: <b>892111</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum 1.03 0.0200 1.000 0 103 85 115

Sample ID: <b>24110103-02AMS</b>	SampType: <b>MS</b>	TestCode: <b>ICP_200.7_W</b>	Units: <b>mg/L</b>	Prep Date: <b>11/13/2024</b>	RunNo: <b>54127</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>28280</b>	TestNo: <b>E200.7</b>	<b>E200.7</b>	Analysis Date: <b>11/13/2024</b>	SeqNo: <b>892113</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum 11.3 0.0200 11.00 0 102 70 130

Sample ID: <b>24110103-02AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>ICP_200.7_W</b>	Units: <b>mg/L</b>	Prep Date: <b>11/13/2024</b>	RunNo: <b>54127</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>28280</b>	TestNo: <b>E200.7</b>	<b>E200.7</b>	Analysis Date: <b>11/13/2024</b>	SeqNo: <b>892114</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum 11.3 0.0200 11.00 0 103 70 130 11.26 0.328 20

**Qualifiers:** C1 Sample container temperature is out of limit as specified at testcode  
 J Analyte detected below quantitation limits  
 PL Permit Limit  
 E Value above quantitation range  
 MI Recovery outside control limits due to Matrix Interference  
 R RPD outside accepted recovery limits  
 H Holding times for preparation or analysis exceed  
 ND Not Detected at the Reporting Limit  
 RL Reporting Detection Limit

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# QC SUMMARY REPORT

WO#: 24110268  
 19-Nov-24

**Client:** Sprague River Water Quality Lab  
**Project:** RES

**TestCode:** ICP\_200.7\_W\_DISS2

Sample ID: <b>MB-28315</b>	SampType: <b>MBLK</b>	TestCode: <b>ICP_200.7_W</b>	Units: <b>mg/L</b>	Prep Date: <b>11/15/2024</b>	RunNo: <b>54209</b>
Client ID: <b>PBW</b>	Batch ID: <b>28315</b>	TestNo: <b>E200.7</b>	<b>E3005</b>	Analysis Date: <b>11/15/2024</b>	SeqNo: <b>893408</b>
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Aluminum, Dissolved ND 0.0200

Sample ID: <b>LCS-28315</b>	SampType: <b>LCS</b>	TestCode: <b>ICP_200.7_W</b>	Units: <b>mg/L</b>	Prep Date: <b>11/15/2024</b>	RunNo: <b>54209</b>
Client ID: <b>LCSW</b>	Batch ID: <b>28315</b>	TestNo: <b>E200.7</b>	<b>E3005</b>	Analysis Date: <b>11/15/2024</b>	SeqNo: <b>893409</b>
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Aluminum, Dissolved 1.09 0.0200 1.000 0 109 85 115

Sample ID: <b>24110218-02AMS</b>	SampType: <b>MS</b>	TestCode: <b>ICP_200.7_W</b>	Units: <b>mg/L</b>	Prep Date: <b>11/15/2024</b>	RunNo: <b>54209</b>
Client ID: <b>BatchQC</b>	Batch ID: <b>28315</b>	TestNo: <b>E200.7</b>	<b>E3005</b>	Analysis Date: <b>11/15/2024</b>	SeqNo: <b>893411</b>
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Aluminum, Dissolved 12.1 0.0200 11.00 0.01169 110 70 130

Sample ID: <b>24110218-02AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>ICP_200.7_W</b>	Units: <b>mg/L</b>	Prep Date: <b>11/15/2024</b>	RunNo: <b>54209</b>
Client ID: <b>BatchQC</b>	Batch ID: <b>28315</b>	TestNo: <b>E200.7</b>	<b>E3005</b>	Analysis Date: <b>11/15/2024</b>	SeqNo: <b>893412</b>
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Aluminum, Dissolved 12.3 0.0200 11.00 0.01169 112 70 130 12.13 1.25 20

**Qualifiers:** C1 Sample container temperature is out of limit as specified at testcode E Value above quantitation range H Holding times for preparation or analysis exceed  
 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 RL Reporting Detection Limit

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# QC SUMMARY REPORT

WO#: 24110268  
 19-Nov-24

**Client:** Sprague River Water Quality Lab  
**Project:** RES

**TestCode:** TOC\_5310C

Sample ID: <b>MBLK</b>	SampType: <b>MBLK</b>	TestCode: <b>TOC_5310C</b>	Units: <b>mg/L</b>	Prep Date: <b>11/8/2024</b>	RunNo: <b>54002</b>
Client ID: <b>PBW</b>	Batch ID: <b>R54002</b>	TestNo: <b>A5310C</b>		Analysis Date: <b>11/8/2024</b>	SeqNo: <b>890146</b>
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Organic Carbon, Total ND 0.500

Sample ID: <b>LCS-15599</b>	SampType: <b>LCS</b>	TestCode: <b>TOC_5310C</b>	Units: <b>mg/L</b>	Prep Date: <b>11/8/2024</b>	RunNo: <b>54002</b>
Client ID: <b>LCSW</b>	Batch ID: <b>R54002</b>	TestNo: <b>A5310C</b>		Analysis Date: <b>11/8/2024</b>	SeqNo: <b>890147</b>
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Organic Carbon, Total 3.67 0.500 3.750 0 98.0 90 110

Sample ID: <b>24110268-01AMS</b>	SampType: <b>MS</b>	TestCode: <b>TOC_5310C</b>	Units: <b>mg/L</b>	Prep Date: <b>11/8/2024</b>	RunNo: <b>54002</b>
Client ID: <b>4110603-01</b>	Batch ID: <b>R54002</b>	TestNo: <b>A5310C</b>		Analysis Date: <b>11/8/2024</b>	SeqNo: <b>890149</b>
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Organic Carbon, Total 2.92 0.500 2.500 0.2533 107 85 115

Sample ID: <b>24110268-02ADUP</b>	SampType: <b>DUP</b>	TestCode: <b>TOC_5310C</b>	Units: <b>mg/L</b>	Prep Date: <b>11/8/2024</b>	RunNo: <b>54002</b>
Client ID: <b>4110603-02</b>	Batch ID: <b>R54002</b>	TestNo: <b>A5310C</b>		Analysis Date: <b>11/8/2024</b>	SeqNo: <b>890151</b>
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Organic Carbon, Total 2.43 0.500 2.411 0.690 15

**Qualifiers:**

C1	Sample container temperature is out of limit as specified at testcode	E	Value above quantitation range	H	Holding times for preparation or analysis exceed
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	RL	Reporting Detection Limit

Original






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# Sample Log-In Check List

Client Name: **SPRAGUERIVERWATER**

Work Order Number: **24110268**

RcptNo: **1**

Logged by:	<b>Erin Hernandez</b>	<b>11/7/2024 10:15:00 AM</b>	
Completed By:	<b>Danielle Garten</b>	<b>11/11/2024 9:11:45 AM</b>	
Reviewed By:	<b>Ashley Spiegelberg</b>	<b>11/19/2024 2:57:56 PM</b>	

**Chain of Custody**

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

**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  NA   
 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:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

18. Additional remarks:

**Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.5	Good				EH



# Chain of Custody Record

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

<b>Section A</b> Required Client Information		<b>Section B</b> Required Project Information		<b>Section C</b> Invoice Information		<b>Section D</b> Rush Status (Subject to Scheduling)	
Company: Sprague River Water Quality Lab		Project Name: RES		Attention: Kaneeta Kirk		<input checked="" type="checkbox"/> Standard: 10 Business Days	
Address: 5671 Sprague River Road		Project Number:		Company Name: The Klamath Tribes		<input type="checkbox"/> Priority: 5 Business Days (List x 1.50)	
Chiloquin, OR 97624		Report To:		Address: PO Box 436		<input type="checkbox"/> Express: 3 Business Days (List x 1.75)	
Email: teresa.coley@klamathtribes.com		Copy To:		Chiloquin, OR 97624		<input type="checkbox"/> Rush: 2 Business Days (List x 2.00)	
Phone: (541) 827-5231 Fax:				P.O. #		<input type="checkbox"/> Rush: 1 Business Day (List x 2.50)	
Collected By (Print):						<input type="checkbox"/> Rush: Same Day (List x 3.00)	
Collected By (Sign):						Authorized <input type="checkbox"/> Yes <input type="checkbox"/> No	
Email Report <input checked="" type="checkbox"/> Mail Report <input type="checkbox"/> Fax Report <input type="checkbox"/>							

Section E Sample Information					Analysis Requested										NRC Workorder # <u>24110268</u> (Lab Use Only)		
Sample ID	Comp/Grab	Matrix*	Date Collected	Time Collected	No. of Containers	TOC	DOC	Total Aluminum	Dissolved Aluminum							Remarks / Field Data	NRC Sample # (Lab Use Only)
4110603-01	11/5/24	Water	11:10	11:10	8	✓	✓	✓	✓								01
4110603-02	11/5/24	Water	10:42	10:42	8	✓	✓	✓	✓								02
4110603-03	11/5/24	Water	09:48	09:48	8	✓	✓	✓	✓								03
4110603-04	11/5/24	Water	10:08	10:08	6	✓	✓										04

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

Section F	Sign	Print	Date	Time
Relinquished By:				
Received By:				
Relinquished By:				
Received By:				
Relinquished By:				
Received By Laboratory:	<i>an</i>	<i>Erin Hernandez</i>	<i>11/7/24</i>	<i>10:15</i>

Section G
Lab Use Only
Temp: <u>3.5°C 12-M</u>
≤6°C: <input type="checkbox"/> Yes <input type="checkbox"/> No
Received on Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Number of Bottles Received:
pH Checked: <u>                    </u>
COC Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
Field Blank Included: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Received Via <input checked="" type="checkbox"/> UPS <input type="checkbox"/> FedEX <input type="checkbox"/> Other <input type="checkbox"/> Hand
Payment: <input checked="" type="checkbox"/> Invoice <input type="checkbox"/> Cash <input type="checkbox"/> VISA, M/C <input type="checkbox"/> Check # <input type="checkbox"/> Amount <input type="checkbox"/>





# Chain of Custody Record

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

**Section A**

**Required Client Information**

Company: Sprague River Water Quality Lab  
 Address: 5671 Sprague River Road  
 Chiloquin, OR 97624  
 Email: teresa.coley@klamathtribes.com  
 Phone: (541) 827-5231 Fax:  
 Collected By (Print):  
 Collected By (Sign):  
 Email Report  Mail Report  Fax Report

**Section B**

**Required Project Information**

Project Name: RES  
 Project Number:  
 Report To:  
 Copy To:

**Section C**

**Invoice Information**

Attention: Kaneeta Kirk  
 Company Name: The Klamath Tribes  
 Address: PO Box 436  
 Chiloquin, OR 97624  
 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		Total Aluminum	Dissolved Aluminum								Remarks / Field Data	NRC Sample # (Lab Use Only)	(Lab Use Only)	
						TOC	DOC													
4110604-01	Comp	Water	11/5/24	07:50	8	✓	✓	✓	✓										05	
4110604-02	Comp	Water	11/5/24	09:50	8	✓	✓	✓	✓										06	
4110604-03	Comp	Water	11/5/24	11:28	8	✓	✓	✓	✓										07	
4110604-04	Comp	Water	11/5/24	12:23	8	✓	✓	✓	✓										08	
4110604-05	Comp	Water	11/5/24	13:25	6	✓	✓												09	
4110604-06	Comp	Water	11/5/24	07:10	8	✓	✓	✓	✓										10	
4110604-07	Comp	Water	11/6/24	08:23	6	✓	✓												11	
4110604-08	Comp	Water	11/6/24	09:18	6	✓	✓												12	
4110604-09	Comp	Water	11/6/24	09:30	6	✓	✓												13	

*2 VOA's broke  
11/7/24*

\*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:				
Received By:				
Relinquished By:				
Received By:				
Relinquished By: <i>Ben A. Harris</i>	<i>Ben A. Harris</i>	<i>Ben A. Harris</i>	<i>11-6-24</i>	<i>1434</i>
Received By Laboratory: <i>am</i>	<i>am</i>	<i>Erin Hernandez</i>	<i>11/7/24</i>	<i>10:15</i>

**Section G**

**Lab Use Only**

Temp: *3.50C 12M*  
 ≤6°C:  Yes  No  
 Received on Ice:  Yes  No  
 Number of Bottles Received:  
 pH Checked:   
 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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- A Total Alkalinity and Bicarbonate Alkalinity results are to a pH endpoint of 4.5. Carbonate Alkalinity result is to a pH endpoint of 8.3.
- A-LL The total low level alkalinity results are to a pH endpoint of 4.3-4.7 pH units per SM 2320 B.
- B Analyte detected in the associated method blank.
- 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.
- 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.
- 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.
- Q Initial calibration verification (ICV), continuing calibration verification (CCV) or laboratory control sample (LCS), and/or matrix spikes 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 The numerical difference between the parent sample and the duplicate (DUP) is outside of the accepted recovery limits. Greater than 5 degrees for Flashpoint, or greater than 0.1 pH units for pH.
- 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 The Relative percent difference (RPD) is not within control limits because the concentration of the sample result is too low to represent proper statistical error.
- R5 The difference between the BOD/CBOD results for the highest and lowest dilution used for the calculation is >30% because the results are too low to represent proper statistical error. The BOD/CBOD sample result is an average of all qualified bottles for each dilution series. The sample results are not affected.
- R6 The difference between the BOD/CBOD results for the highest and lowest dilution used for the calculation is >30%. This may indicate a possible matrix interference. The BOD/CBOD sample result is an average of all qualified bottles for each dilution series.
- 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 Maximum Contaminant Level or is outside the acceptable range.<<>>