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

October 17, 2024

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

RE: RES Order No.: 24100233

Dear Teresa Coley:

Neilson Research Corporation received 4 sample(s) on 10/4/2024 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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Case Narrative

WO#: **24100233**
Date: **10/17/2024**

CLIENT: Sprague River Water Quality Lab
Project: RES

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#: **24100233**
Date Reported: **10/17/2024**

CLIENT: Sprague River Water Quality Lab
Lab ID: 24100233-01
Client Sample ID 4100204-01
Project: RES
Sample Location: Comp

Collection Date: 10/1/2024 8:35:00 AM
Received Date: 10/4/2024 12:30:00 PM
Matrix: AQUEOUS

Analyses	Method	NELAP Status	Result	Qual	DF	MDL	RL	Units	MCL	Date Analyzed	Analyst
DISSOLVED TRACE METALS											
Aluminum, Dissolved	E200.7	A	ND		1	0.00895	0.0200	mg/L		10/15/24 20:11	CBB
TRACE METALS BY EPA 200.7 ICP											
Aluminum	E200.7	A	ND		1	0.00895	0.0200	mg/L		10/08/24 21:36	CJS
DISSOLVED ORGANIC CARBON BY SM 5310 C-2014											
Organic Carbon, Dissolved	A5310C	A	0.370	J	1	0.192	0.500	mg/L		10/11/24 14:26	TJW
TOTAL ORGANIC CARBON SM 5310 C-2014											
Organic Carbon, Total	A5310C	A	0.398	J	1	0.142	0.500	mg/L		10/08/24 2:38	TJW

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 exceeded	J	Analyte detected below quantitation limits
MI	Recovery outside comtrol limits due to Matrix Interference	ND	Not Detected at the Reporting Limit
PL	Permit Limit		

Original

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

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Analytical Report

WO#: **24100233**
Date Reported: **10/17/2024**

CLIENT: Sprague River Water Quality Lab
Lab ID: 24100233-02
Client Sample ID 4100204-02
Project: RES
Sample Location: Comp

Collection Date: 10/1/2024 11:38:00 AM
Received Date: 10/4/2024 12:30:00 PM
Matrix: AQUEOUS

Analyses	Method	NELAP Status	Result	Qual	DF	MDL	RL	Units	MCL	Date Analyzed	Analyst
DISSOLVED TRACE METALS											
Aluminum, Dissolved	E200.7	A	0.0950		1	0.00895	0.0200	mg/L		10/15/24 20:21	CBB
TRACE METALS BY EPA 200.7 ICP											
Aluminum	E200.7	A	1.46		1	0.00895	0.0200	mg/L		10/08/24 21:38	CJS
DISSOLVED ORGANIC CARBON BY SM 5310 C-2014											
Organic Carbon, Dissolved	A5310C	A	2.55		1	0.192	0.500	mg/L		10/11/24 14:44	TJW
TOTAL ORGANIC CARBON SM 5310 C-2014											
Organic Carbon, Total	A5310C	A	2.20		1	0.142	0.500	mg/L		10/08/24 2:56	TJW

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 exceeded	J	Analyte detected below quantitation limits
MI	Recovery outside comtrol limits due to Matrix Interference	ND	Not Detected at the Reporting Limit
PL	Permit Limit		

Original

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Analytical Report

WO#: **24100233**
Date Reported: **10/17/2024**

CLIENT: Sprague River Water Quality Lab
Lab ID: 24100233-03
Client Sample ID 4100204-03
Project: RES
Sample Location: Comp

Collection Date: 10/1/2024 10:10:00 AM
Received Date: 10/4/2024 12:30:00 PM
Matrix: AQUEOUS

Analyses	Method	NELAP Status	Result	Qual	DF	MDL	RL	Units	MCL	Date Analyzed	Analyst
DISSOLVED TRACE METALS											
Aluminum, Dissolved	E200.7	A	0.116		1	0.00895	0.0200	mg/L		10/15/24 20:24	CBB
TRACE METALS BY EPA 200.7 ICP											
Aluminum	E200.7	A	2.97		1	0.00895	0.0200	mg/L		10/15/24 21:09	CBB
DISSOLVED ORGANIC CARBON BY SM 5310 C-2014											
Organic Carbon, Dissolved	A5310C	A	2.72		1	0.192	0.500	mg/L		10/11/24 15:20	TJW
TOTAL ORGANIC CARBON SM 5310 C-2014											
Organic Carbon, Total	A5310C	A	2.33		1	0.142	0.500	mg/L		10/08/24 3:15	TJW

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 exceeded	J	Analyte detected below quantitation limits
MI	Recovery outside comtrol limits due to Matrix Interference	ND	Not Detected at the Reporting Limit
PL	Permit Limit		

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Analytical Report

WO#: **24100233**
Date Reported: **10/17/2024**

CLIENT: Sprague River Water Quality Lab
Lab ID: 24100233-04
Client Sample ID 4100204-04
Project: RES
Sample Location: Comp

Collection Date: 10/1/2024 10:30:00 AM
Received Date: 10/4/2024 12:30:00 PM
Matrix: AQUEOUS

Analyses	Method	NELAP Status	Result	Qual	DF	MDL	RL	Units	MCL	Date Analyzed	Analyst
DISSOLVED ORGANIC CARBON BY SM 5310 C-2014											
Organic Carbon, Dissolved	A5310C	A	0.487	J	1	0.192	0.500	mg/L		10/11/24 15:57	TJW
TOTAL ORGANIC CARBON SM 5310 C-2014											
Organic Carbon, Total	A5310C	A	0.259	J	1	0.142	0.500	mg/L		10/08/24 3:34	TJW

QUALIFIERS

C1	Sample container temperature is out of limit as specified at testcode
H	Holding times for preparation or analysis exceeded
MI	Recovery outside comtrol 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

Original

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QC SUMMARY REPORT

WO#: **24100233**
17-Oct-24

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

Sample ID: **MB** SampType: **MBLK** TestCode: **DOC_W** Units: **mg/L** Prep Date: **10/11/2024** RunNo: **53314**
Client ID: **PBW** Batch ID: **R53314** TestNo: **A5310C** Analysis Date: **10/11/2024** SeqNo: **878657**

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: **LCS - 15599** SampType: **LCS** TestCode: **DOC_W** Units: **mg/L** Prep Date: **10/11/2024** RunNo: **53314**
Client ID: **LCSW** Batch ID: **R53314** TestNo: **A5310C** Analysis Date: **10/11/2024** SeqNo: **878658**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Dissolved	3.55	0.500	3.750	0	94.8	90	110				

Sample ID: **24100233-02BDUP** SampType: **DUP** TestCode: **DOC_W** Units: **mg/L** Prep Date: **10/11/2024** RunNo: **53314**
Client ID: **4100204-02** Batch ID: **R53314** TestNo: **A5310C** Analysis Date: **10/11/2024** SeqNo: **878661**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Dissolved	2.52	0.500						2.554	1.51	15	

Sample ID: **24100233-03BMS** SampType: **MS** TestCode: **DOC_W** Units: **mg/L** Prep Date: **10/11/2024** RunNo: **53314**
Client ID: **4100204-03** Batch ID: **R53314** TestNo: **A5310C** Analysis Date: **10/11/2024** SeqNo: **878663**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Dissolved	5.12	0.500	2.500	2.718	96.0	85	115				

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 exceede
J	Analyte detected below quantitation limits	MI	Recovery outside comtrol limits due to Matrix Interference	ND	Not Detected at the Reporting Limit
PL	Permit Limit	RL	Reporting Detection Limit		

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QC SUMMARY REPORT

WO#: **24100233**
17-Oct-24

Client: Sprague River Water Quality Lab
Project: RES **TestCode:** **ICP_200.7_W**

Sample ID:	**MB-27864**	SampType:	**MBLK**	TestCode:	**ICP_200.7_W**	Units:	**mg/L**	Prep Date:	**10/8/2024**	RunNo:	**53204**
Client ID:	**PBW**	Batch ID:	**27864**	TestNo:	**E200.7**	**E200.7**		Analysis Date:	**10/8/2024**	SeqNo:	**876672**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	ND	0.0200									

Sample ID:	**LCS-27864**	SampType:	**LCS**	TestCode:	**ICP_200.7_W**	Units:	**mg/L**	Prep Date:	**10/8/2024**	RunNo:	**53204**
Client ID:	**LCSW**	Batch ID:	**27864**	TestNo:	**E200.7**	**E200.7**		Analysis Date:	**10/8/2024**	SeqNo:	**876673**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	1.01	0.0200	1.000	0	101	85	115				

Sample ID:	**24091190-01AMS**	SampType:	**MS**	TestCode:	**ICP_200.7_W**	Units:	**mg/L**	Prep Date:	**10/8/2024**	RunNo:	**53204**
Client ID:	**BatchQC**	Batch ID:	**27864**	TestNo:	**E200.7**	**E200.7**		Analysis Date:	**10/8/2024**	SeqNo:	**876675**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	21.3	0.0200	11.00	7.670	124	70	130				

Sample ID:	**24091190-01AMSD**	SampType:	**MSD**	TestCode:	**ICP_200.7_W**	Units:	**mg/L**	Prep Date:	**10/8/2024**	RunNo:	**53204**
Client ID:	**BatchQC**	Batch ID:	**27864**	TestNo:	**E200.7**	**E200.7**		Analysis Date:	**10/8/2024**	SeqNo:	**876676**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	21.9	0.0200	11.00	7.670	129	70	130	21.30	2.70	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 exceede
J	Analyte detected below quantitation limits	MI	Recovery outside comtrol limits due to Matrix Interference	ND	Not Detected at the Reporting Limit
PL	Permit Limit	RL	Reporting Detection Limit		

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QC SUMMARY REPORT

WO#: **24100233**
17-Oct-24

Client: Sprague River Water Quality Lab
Project: RES **TestCode:** **ICP_200.7_W**

Sample ID:	**MB-27944**	SampType:	**MBLK**	TestCode:	**ICP_200.7_W**	Units:	**mg/L**	Prep Date:	**10/15/2024**	RunNo:	**53381**
Client ID:	**PBW**	Batch ID:	**27944**	TestNo:	**E200.7**		**E200.7**	Analysis Date:	**10/15/2024**	SeqNo:	**879876**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	ND	0.0200									

Sample ID:	**LCS-27944**	SampType:	**LCS**	TestCode:	**ICP_200.7_W**	Units:	**mg/L**	Prep Date:	**10/15/2024**	RunNo:	**53381**
Client ID:	**LCSW**	Batch ID:	**27944**	TestNo:	**E200.7**		**E200.7**	Analysis Date:	**10/15/2024**	SeqNo:	**879877**

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:	**24100233-03CMS**	SampType:	**MS**	TestCode:	**ICP_200.7_W**	Units:	**mg/L**	Prep Date:	**10/15/2024**	RunNo:	**53381**
Client ID:	**4100204-03**	Batch ID:	**27944**	TestNo:	**E200.7**		**E200.7**	Analysis Date:	**10/15/2024**	SeqNo:	**879879**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	15.7	0.0200	11.00	2.970	115	70	130				

Sample ID:	**24100233-03CMSD**	SampType:	**MSD**	TestCode:	**ICP_200.7_W**	Units:	**mg/L**	Prep Date:	**10/15/2024**	RunNo:	**53381**
Client ID:	**4100204-03**	Batch ID:	**27944**	TestNo:	**E200.7**		**E200.7**	Analysis Date:	**10/15/2024**	SeqNo:	**879880**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	16.5	0.0200	11.00	2.970	123	70	130	15.65	5.11	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 exceede
J	Analyte detected below quantitation limits	MI	Recovery outside comtrol limits due to Matrix Interference	ND	Not Detected at the Reporting Limit
PL	Permit Limit	RL	Reporting Detection Limit		

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QC SUMMARY REPORT

WO#: **24100233**
17-Oct-24

Client: Sprague River Water Quality Lab
Project: RES

TestCode: **ICP_200.7_W_DISS2**

Sample ID:	**MB-27946**	SampType:	**MBLK**	TestCode:	**ICP_200.7_W**	Units:	**mg/L**	Prep Date:	**10/15/2024**	RunNo:	**53380**
Client ID:	**PBW**	Batch ID:	**27946**	TestNo:	**E200.7**		**E3005**	Analysis Date:	**10/15/2024**	SeqNo:	**879849**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum, Dissolved	ND	0.0200									

Sample ID:	**LCS-27946**	SampType:	**LCS**	TestCode:	**ICP_200.7_W**	Units:	**mg/L**	Prep Date:	**10/15/2024**	RunNo:	**53380**
Client ID:	**LCSW**	Batch ID:	**27946**	TestNo:	**E200.7**		**E3005**	Analysis Date:	**10/15/2024**	SeqNo:	**879850**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum, Dissolved	1.02	0.0200	1.000	0	102	85	115				

Sample ID:	**24100233-01DMS**	SampType:	**MS**	TestCode:	**ICP_200.7_W**	Units:	**mg/L**	Prep Date:	**10/15/2024**	RunNo:	**53380**
Client ID:	**4100204-01**	Batch ID:	**27946**	TestNo:	**E200.7**		**E3005**	Analysis Date:	**10/15/2024**	SeqNo:	**879852**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum, Dissolved	10.7	0.0200	11.00	0	97.4	70	130				

Sample ID:	**24100233-01DMSD**	SampType:	**MSD**	TestCode:	**ICP_200.7_W**	Units:	**mg/L**	Prep Date:	**10/15/2024**	RunNo:	**53380**
Client ID:	**4100204-01**	Batch ID:	**27946**	TestNo:	**E200.7**		**E3005**	Analysis Date:	**10/15/2024**	SeqNo:	**879853**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum, Dissolved	10.7	0.0200	11.00	0	97.1	70	130	10.72	0.290	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 exceede
J	Analyte detected below quantitation limits	MI	Recovery outside comtrol limits due to Matrix Interference	ND	Not Detected at the Reporting Limit
PL	Permit Limit	RL	Reporting Detection Limit		

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QC SUMMARY REPORT

WO#: **24100233**
17-Oct-24

Client: Sprague River Water Quality Lab
Project: RES **TestCode:** **TOC_5310C**

Sample ID: **LCS - 15599**	SampType: **LCS**	TestCode: **TOC_5310C**	Units: **mg/L**	Prep Date: **10/7/2024**	RunNo: **53185**
Client ID: **LCSW**	Batch ID: **R53185**	TestNo: **A5310C**		Analysis Date: **10/7/2024**	SeqNo: **876244**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Total	3.83	0.500	3.750	0	102	90	110				

Sample ID: **MB**	SampType: **MBLK**	TestCode: **TOC_5310C**	Units: **mg/L**	Prep Date: **10/7/2024**	RunNo: **53185**
Client ID: **PBW**	Batch ID: **R53185**	TestNo: **A5310C**		Analysis Date: **10/7/2024**	SeqNo: **876245**

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: **24100146-01DDUP**	SampType: **DUP**	TestCode: **TOC_5310C**	Units: **mg/L**	Prep Date: **10/7/2024**	RunNo: **53185**
Client ID: **BatchQC**	Batch ID: **R53185**	TestNo: **A5310C**		Analysis Date: **10/7/2024**	SeqNo: **876249**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Total	8.32	2.00						8.333	0.155	15	

Sample ID: **24100146-02DMS**	SampType: **MS**	TestCode: **TOC_5310C**	Units: **mg/L**	Prep Date: **10/7/2024**	RunNo: **53185**
Client ID: **BatchQC**	Batch ID: **R53185**	TestNo: **A5310C**		Analysis Date: **10/7/2024**	SeqNo: **876251**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Total	19.7	2.00	10.00	8.706	110	85	115				

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 exceede
J	Analyte detected below quantitation limits	MI	Recovery outside comtrol limits due to Matrix Interference	ND	Not Detected at the Reporting Limit
PL	Permit Limit	RL	Reporting Detection Limit		

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Website: www.nrclabs.com

Sample Log-In Check List

Client Name: **SPRAGUERIVERWATER** Work Order Number: **24100233** RcptNo: **1**

Logged by:	**Danielle Garten**	**10/4/2024 12:30:00 PM**	Danielle Garten
Completed By:	**Danielle Garten**	**10/7/2024 3:59:21 PM**	Danielle Garten
Reviewed By:	**Tamra Schmedemann**	**10/17/2024 10:17:35 AM**	Tamra Schmedemann

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 ☐
    HNO3 pH<2
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? Yes ☑ No ☐
    (Note discrepancies on chain of custody)
14. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
15. Is it clear what analyses were requested? Yes ☑ No ☐
16. Were all holding times able to be met? Yes ☑ No ☐
    (If no, notify customer for authorization.)

Special Handling (if applicable)

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

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

18. Additional remarks:

Cooler Information

Cooler No	Temp ºC	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.5	Good				TRS

NEILSON RESEARCH CORPORATION

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 × 1.50)
- ☐ Express: 3 Business Days (List × 1.75)
- ☐ Rush: 2 Business Days (List × 2.00)
- ☐ Rush: 1 Business Day (List × 2.50)
- ☐ Rush: Same Day (List × 3.00)

Authorized ☐ Yes ☐ No

Section E Sample Information

NRC Workorder # (Lab Use Only): 24100233

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)
4100204-01	Comp	Water	10/1/24	08:35	7	✓	✓	✓	✓						only 2 vials for DOC	01
4100204-02	Comp	Water	10/1/24	11:38	8	✓	✓	✓	✓							02
4100204-03	Comp	Water	10/1/24	10:10	8	✓	✓	✓	✓							03
4100204-04	Comp	Water	10/1/24	10:30	8	✓	✓	~~✓~~	~~✓~~	Did not receive TS						04

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

Section F Relinquish/Receive

	Sign	Print	Date	Time
Relinquished By:	Mia A. Groff	Mia Groff	10/2/24	14:27
Received By:				
Relinquished By:				
Received By:				
Relinquished By:				
Received By Laboratory:	Danielle Harter	Danielle Geerdes	10/4/24	12:30

Section G Lab Use Only

Temp:	2.5 IR-5
≤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

Effective 6/19/2020

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Medford, OR 97501
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Data Flags

WO#: **24100233**
Date: **10/17/2024**

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.<<>>

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October 25, 2024

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

RE: Karuk RES Order No.: 24100490

Dear Teresa Coley:

Neilson Research Corporation received 9 sample(s) on 10/10/2024 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

Neilson Research Corporation
245 S Grape St
Medford, OR 97501
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Website: www.nrclabs.com

Case Narrative

WO#: **24100490**
Date: **10/25/2024**

CLIENT: Sprague River Water Quality Lab
Project: Karuk RES

The analyses were performed according to the guidelines in the Neilson Research Corporation Quality Assurance Program. This report contains analytical results for the sample(s) as received by the laboratory.

Neilson Research Corporation certifies that this report is in compliance with the requirements of NELAP. No unusual difficulties were experienced during analysis of this batch except as noted below or qualified with data flags on the reports.

Original

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Analytical Report

WO#: **24100490**
Date Reported: **10/25/2024**

CLIENT: Sprague River Water Quality Lab
Lab ID: 24100490-01
Client Sample ID 4100903-01
Project: Karuk RES
Sample Location: Comp

Collection Date: 10/8/2024 7:42:00 AM
Received Date: 10/10/2024 10:35:00 AM
Matrix: AQUEOUS

Analyses	Method	NELAP Status	Result	Qual	DF	MDL	RL	Units	MCL	Date Analyzed	Analyst
DISSOLVED TRACE METALS											
Aluminum, Dissolved	E200.7	A	0.108		1	0.00895	0.0200	mg/L		10/15/24 20:36	CBB
TRACE METALS BY EPA 200.7 ICP											
Aluminum	E200.7	A	3.20		1	0.00895	0.0200	mg/L		10/15/24 22:00	CBB
DISSOLVED ORGANIC CARBON BY SM 5310 C-2014											
Organic Carbon, Dissolved	A5310C	A	3.32		1	0.192	0.500	mg/L		10/11/24 19:34	TJW
TOTAL ORGANIC CARBON SM 5310 C-2014											
Organic Carbon, Total	A5310C	A	2.85		1	0.142	0.500	mg/L		10/17/24 14:44	TJW

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 exceeded	J	Analyte detected below quantitation limits
MI	Recovery outside comtrol limits due to Matrix Interference	ND	Not Detected at the Reporting Limit
PL	Permit Limit	R	RPD outside accepted recovery limits

Original

NELAP

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Analytical Report

WO#: **24100490**
Date Reported: **10/25/2024**

CLIENT: Sprague River Water Quality Lab
Lab ID: 24100490-02
Client Sample ID 4100903-02
Project: Karuk RES
Sample Location: Comp

Collection Date: 10/8/2024 9:45:00 AM
Received Date: 10/10/2024 10:35:00 AM
Matrix: AQUEOUS

Analyses	Method	NELAP Status	Result	Qual	DF	MDL	RL	Units	MCL	Date Analyzed	Analyst
DISSOLVED TRACE METALS											
Aluminum, Dissolved	E200.7	A	0.137		1	0.00895	0.0200	mg/L		10/24/24 18:37	CJS
TRACE METALS BY EPA 200.7 ICP											
Aluminum	E200.7	A	6.67		1	0.00895	0.0200	mg/L		10/24/24 19:21	CJS
DISSOLVED ORGANIC CARBON BY SM 5310 C-2014											
Organic Carbon, Dissolved	A5310C	A	4.32		1	0.192	0.500	mg/L		10/11/24 19:53	TJW
TOTAL ORGANIC CARBON SM 5310 C-2014											
Organic Carbon, Total	A5310C	A	3.81		1	0.142	0.500	mg/L		10/17/24 15:20	TJW

QUALIFIERS

C1	Sample container temperature is out of limit as specified at testcode
H	Holding times for preparation or analysis exceeded
MI	Recovery outside comtrol 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

Original

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Analytical Report

WO#: **24100490**
Date Reported: **10/25/2024**

CLIENT: Sprague River Water Quality Lab
Lab ID: 24100490-03
Client Sample ID 4100903-03
Project: Karuk RES
Sample Location: Comp

Collection Date: 10/8/2024 11:29:00 AM
Received Date: 10/10/2024 10:35:00 AM
Matrix: AQUEOUS

Analyses	Method	NELAP Status	Result	Qual	DF	MDL	RL	Units	MCL	Date Analyzed	Analyst
DISSOLVED TRACE METALS											
Aluminum, Dissolved	E200.7	A	0.0649		1	0.00895	0.0200	mg/L		10/15/24 20:51	CBB
TRACE METALS BY EPA 200.7 ICP											
Aluminum	E200.7	A	4.88		1	0.00895	0.0200	mg/L		10/15/24 22:06	CBB
DISSOLVED ORGANIC CARBON BY SM 5310 C-2014											
Organic Carbon, Dissolved	A5310C	A	5.84		1	0.192	0.500	mg/L		10/11/24 20:11	TJW
TOTAL ORGANIC CARBON SM 5310 C-2014											
Organic Carbon, Total	A5310C	A	4.35		1	0.142	0.500	mg/L		10/17/24 15:56	TJW

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 exceeded	J	Analyte detected below quantitation limits
MI	Recovery outside comtrol limits due to Matrix Interference	ND	Not Detected at the Reporting Limit
PL	Permit Limit	R	RPD outside accepted recovery limits

Original

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Website: www.nrclabs.com

Analytical Report

WO#: **24100490**
Date Reported: **10/25/2024**

CLIENT: Sprague River Water Quality Lab
Lab ID: 24100490-04
Client Sample ID 4100903-04
Project: Karuk RES
Sample Location: Comp

Collection Date: 10/8/2024 12:21:00 PM
Received Date: 10/10/2024 10:35:00 AM
Matrix: AQUEOUS

Analyses	Method	NELAP Status	Result	Qual	DF	MDL	RL	Units	MCL	Date Analyzed	Analyst
DISSOLVED ORGANIC CARBON BY SM 5310 C-2014											
Organic Carbon, Dissolved	A5310C	A	5.22		1	0.192	0.500	mg/L		10/11/24 20:29	TJW
TOTAL ORGANIC CARBON SM 5310 C-2014											
Organic Carbon, Total	A5310C	A	4.87		1	0.142	0.500	mg/L		10/17/24 16:14	TJW

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 exceeded	J	Analyte detected below quantitation limits
MI	Recovery outside comtrol 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#: **24100490**
Date Reported: **10/25/2024**

CLIENT: Sprague River Water Quality Lab
Lab ID: 24100490-05
Client Sample ID 4100903-05
Project: Karuk RES
Sample Location: Comp

Collection Date: 10/8/2024 1:22:00 PM
Received Date: 10/10/2024 10:35:00 AM
Matrix: AQUEOUS

Analyses	Method	NELAP Status	Result	Qual	DF	MDL	RL	Units	MCL	Date Analyzed	Analyst
DISSOLVED ORGANIC CARBON BY SM 5310 C-2014											
Organic Carbon, Dissolved	A5310C	A	5.21		1	0.192	0.500	mg/L		10/11/24 20:47	TJW
TOTAL ORGANIC CARBON SM 5310 C-2014											
Organic Carbon, Total	A5310C	A	5.08		1	0.142	0.500	mg/L		10/17/24 16:32	TJW

QUALIFIERS

C1	Sample container temperature is out of limit as specified at testcode
H	Holding times for preparation or analysis exceeded
MI	Recovery outside comtrol 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#: **24100490**
Date Reported: **10/25/2024**

CLIENT: Sprague River Water Quality Lab
Lab ID: 24100490-06
Client Sample ID 4100903-06
Project: Karuk RES
Sample Location: Comp

Collection Date: 10/9/2024 10:18:00 AM
Received Date: 10/10/2024 10:35:00 AM
Matrix: AQUEOUS

Analyses	Method	NELAP Status	Result	Qual	DF	MDL	RL	Units	MCL	Date Analyzed	Analyst
DISSOLVED TRACE METALS											
Aluminum, Dissolved	E200.7	A	ND		1	0.00895	0.0200	mg/L		10/15/24 20:54	CBB
TRACE METALS BY EPA 200.7 ICP											
Aluminum	E200.7	A	ND		1	0.00895	0.0200	mg/L		10/15/24 22:10	CBB
DISSOLVED ORGANIC CARBON BY SM 5310 C-2014											
Organic Carbon, Dissolved	A5310C	A	0.555		1	0.192	0.500	mg/L		10/11/24 21:05	TJW
TOTAL ORGANIC CARBON SM 5310 C-2014											
Organic Carbon, Total	A5310C	A	0.747		1	0.142	0.500	mg/L		10/17/24 16:50	TJW

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 exceeded	J	Analyte detected below quantitation limits
MI	Recovery outside comtrol limits due to Matrix Interference	ND	Not Detected at the Reporting Limit
PL	Permit Limit	R	RPD outside accepted recovery limits

Original

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Analytical Report

WO#: **24100490**
Date Reported: **10/25/2024**

CLIENT: Sprague River Water Quality Lab
Lab ID: 24100490-07
Client Sample ID 4100903-07
Project: Karuk RES
Sample Location: Comp

Collection Date: 10/9/2024 8:53:00 AM
Received Date: 10/10/2024 10:35:00 AM
Matrix: AQUEOUS

Analyses	Method	NELAP Status	Result	Qual	DF	MDL	RL	Units	MCL	Date Analyzed	Analyst
DISSOLVED ORGANIC CARBON BY SM 5310 C-2014											
Organic Carbon, Dissolved	A5310C	A	5.54		1	0.192	0.500	mg/L		10/11/24 21:23	TJW
TOTAL ORGANIC CARBON SM 5310 C-2014											
Organic Carbon, Total	A5310C	A	5.23		1	0.142	0.500	mg/L		10/17/24 17:08	TJW

QUALIFIERS

C1	Sample container temperature is out of limit as specified at testcode
H	Holding times for preparation or analysis exceeded
MI	Recovery outside comtrol 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#: **24100490**
Date Reported: **10/25/2024**

CLIENT: Sprague River Water Quality Lab
Lab ID: 24100490-08
Client Sample ID 4100903-08
Project: Karuk RES
Sample Location: Comp

Collection Date: 10/9/2024 10:38:00 AM
Received Date: 10/10/2024 10:35:00 AM
Matrix: AQUEOUS

Analyses	Method	NELAP Status	Result	Qual	DF	MDL	RL	Units	MCL	Date Analyzed	Analyst
DISSOLVED ORGANIC CARBON BY SM 5310 C-2014											
Organic Carbon, Dissolved	A5310C	A	6.87		1	0.192	0.500	mg/L		10/21/24 9:42	TJW
TOTAL ORGANIC CARBON SM 5310 C-2014											
Organic Carbon, Total	A5310C	A	6.77		1	0.142	0.500	mg/L		10/17/24 17:26	TJW

QUALIFIERS

C1	Sample container temperature is out of limit as specified at testcode
H	Holding times for preparation or analysis exceeded
MI	Recovery outside comtrol 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

Original

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Analytical Report

WO#: **24100490**
Date Reported: **10/25/2024**

CLIENT: Sprague River Water Quality Lab
Lab ID: 24100490-09
Client Sample ID 4100903-09
Project: Karuk RES
Sample Location: Comp

Collection Date: 10/9/2024 9:00:00 AM
Received Date: 10/10/2024 10:35:00 AM
Matrix: AQUEOUS

Analyses	Method	NELAP Status	Result	Qual	DF	MDL	RL	Units	MCL	Date Analyzed	Analyst
DISSOLVED ORGANIC CARBON BY SM 5310 C-2014											
Organic Carbon, Dissolved	A5310C	A	5.40		1	0.192	0.500	mg/L		10/21/24 10:18	TJW
TOTAL ORGANIC CARBON SM 5310 C-2014											
Organic Carbon, Total	A5310C	A	5.28		1	0.142	0.500	mg/L		10/17/24 17:45	TJW

QUALIFIERS

C1	Sample container temperature is out of limit as specified at testcode
H	Holding times for preparation or analysis exceeded
MI	Recovery outside comtrol 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

Original

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Website: www.nrclabs.com

QC SUMMARY REPORT

WO#: **24100490**

25-Oct-24

Client: Sprague River Water Quality Lab
Project: Karuk RES

TestCode: **DOC_W**

Sample ID: **MB**	SampType: **MBLK**	TestCode: **DOC_W**	Units: **mg/L**	Prep Date: **10/11/2024**	RunNo: **53314**
Client ID: **PBW**	Batch ID: **R53314**	TestNo: **A5310C**		Analysis Date: **10/11/2024**	SeqNo: **878657**

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: **LCS - 15599**	SampType: **LCS**	TestCode: **DOC_W**	Units: **mg/L**	Prep Date: **10/11/2024**	RunNo: **53314**
Client ID: **LCSW**	Batch ID: **R53314**	TestNo: **A5310C**		Analysis Date: **10/11/2024**	SeqNo: **878658**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Dissolved	3.55	0.500	3.750	0	94.8	90	110				

Sample ID: **24100233-02BDUP**	SampType: **DUP**	TestCode: **DOC_W**	Units: **mg/L**	Prep Date: **10/11/2024**	RunNo: **53314**
Client ID: **BatchQC**	Batch ID: **R53314**	TestNo: **A5310C**		Analysis Date: **10/11/2024**	SeqNo: **878661**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Dissolved	2.52	0.500						2.554	1.51	15	

Sample ID: **24100233-03BMS**	SampType: **MS**	TestCode: **DOC_W**	Units: **mg/L**	Prep Date: **10/11/2024**	RunNo: **53314**
Client ID: **BatchQC**	Batch ID: **R53314**	TestNo: **A5310C**		Analysis Date: **10/11/2024**	SeqNo: **878663**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Dissolved	5.12	0.500	2.500	2.718	96.0	85	115				

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 comtrol 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

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#: **24100490**

25-Oct-24

Client: Sprague River Water Quality Lab
Project: Karuk RES

TestCode: **DOC_W**

Sample ID: **MB**	SampType: **MBLK**	TestCode: **DOC_W**	Units: **mg/L**	Prep Date: **10/21/2024**	RunNo: **53545**
Client ID: **PBW**	Batch ID: **R53545**	TestNo: **A5310C**		Analysis Date: **10/21/2024**	SeqNo: **882580**

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: **LCS - 15599**	SampType: **LCS**	TestCode: **DOC_W**	Units: **mg/L**	Prep Date: **10/21/2024**	RunNo: **53545**
Client ID: **LCSW**	Batch ID: **R53545**	TestNo: **A5310C**		Analysis Date: **10/21/2024**	SeqNo: **882581**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Dissolved	3.79	0.500	3.750	0	101	90	110				

Sample ID: **24100490-08BDUP**	SampType: **DUP**	TestCode: **DOC_W**	Units: **mg/L**	Prep Date: **10/21/2024**	RunNo: **53545**
Client ID: **4100903-08**	Batch ID: **R53545**	TestNo: **A5310C**		Analysis Date: **10/21/2024**	SeqNo: **882583**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Dissolved	6.84	0.500						6.874	0.551	15	

Sample ID: **24100490-09BMS**	SampType: **MS**	TestCode: **DOC_W**	Units: **mg/L**	Prep Date: **10/21/2024**	RunNo: **53545**
Client ID: **4100903-09**	Batch ID: **R53545**	TestNo: **A5310C**		Analysis Date: **10/21/2024**	SeqNo: **882585**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Dissolved	8.20	0.500	2.500	5.398	112	85	115				E

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 comtrol 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#: **24100490**

25-Oct-24

Client: Sprague River Water Quality Lab
Project: Karuk RES

TestCode: **ICP_200.7_W**

Sample ID:	**MB-27944**	SampType:	**MBLK**	TestCode:	**ICP_200.7_W**	Units:	**mg/L**	Prep Date:	**10/15/2024**	RunNo:	**53381**
Client ID:	**PBW**	Batch ID:	**27944**	TestNo:	**E200.7**		**E200.7**	Analysis Date:	**10/15/2024**	SeqNo:	**879876**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	ND	0.0200									

Sample ID:	**LCS-27944**	SampType:	**LCS**	TestCode:	**ICP_200.7_W**	Units:	**mg/L**	Prep Date:	**10/15/2024**	RunNo:	**53381**
Client ID:	**LCSW**	Batch ID:	**27944**	TestNo:	**E200.7**		**E200.7**	Analysis Date:	**10/15/2024**	SeqNo:	**879877**

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:	**24100233-03CMS**	SampType:	**MS**	TestCode:	**ICP_200.7_W**	Units:	**mg/L**	Prep Date:	**10/15/2024**	RunNo:	**53381**
Client ID:	**BatchQC**	Batch ID:	**27944**	TestNo:	**E200.7**		**E200.7**	Analysis Date:	**10/15/2024**	SeqNo:	**879879**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	15.7	0.0200	11.00	2.970	115	70	130				

Sample ID:	**24100233-03CMSD**	SampType:	**MSD**	TestCode:	**ICP_200.7_W**	Units:	**mg/L**	Prep Date:	**10/15/2024**	RunNo:	**53381**
Client ID:	**BatchQC**	Batch ID:	**27944**	TestNo:	**E200.7**		**E200.7**	Analysis Date:	**10/15/2024**	SeqNo:	**879880**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	16.5	0.0200	11.00	2.970	123	70	130	15.65	5.11	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 comtrol 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#: **24100490**

25-Oct-24

Client: Sprague River Water Quality Lab
Project: Karuk RES

TestCode: **ICP_200.7_W**

Sample ID:	**MB-28067**	SampType:	**MBLK**	TestCode:	**ICP_200.7_W**	Units:	**mg/L**	Prep Date:	**10/24/2024**	RunNo:	**53660**
Client ID:	**PBW**	Batch ID:	**28067**	TestNo:	**E200.7**		**E200.7**	Analysis Date:	**10/24/2024**	SeqNo:	**884406**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	ND	0.0200									

Sample ID:	**LCS-28067**	SampType:	**LCS**	TestCode:	**ICP_200.7_W**	Units:	**mg/L**	Prep Date:	**10/24/2024**	RunNo:	**53660**
Client ID:	**LCSW**	Batch ID:	**28067**	TestNo:	**E200.7**		**E200.7**	Analysis Date:	**10/24/2024**	SeqNo:	**884407**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	1.06	0.0200	1.000	0	106	85	115				

Sample ID:	**24100720-01BMS**	SampType:	**MS**	TestCode:	**ICP_200.7_W**	Units:	**mg/L**	Prep Date:	**10/24/2024**	RunNo:	**53660**
Client ID:	**BatchQC**	Batch ID:	**28067**	TestNo:	**E200.7**		**E200.7**	Analysis Date:	**10/24/2024**	SeqNo:	**884414**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	13.9	0.0200	11.00	1.331	114	70	130				

Sample ID:	**24100720-01BMSD**	SampType:	**MSD**	TestCode:	**ICP_200.7_W**	Units:	**mg/L**	Prep Date:	**10/24/2024**	RunNo:	**53660**
Client ID:	**BatchQC**	Batch ID:	**28067**	TestNo:	**E200.7**		**E200.7**	Analysis Date:	**10/24/2024**	SeqNo:	**884415**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	13.5	0.0200	11.00	1.331	111	70	130	13.85	2.44	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 comtrol 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#: **24100490**

25-Oct-24

Client: Sprague River Water Quality Lab
Project: Karuk RES

TestCode: **ICP_200.7_W_DISS2**

Sample ID: **MB-27946**	SampType: **MBLK**	TestCode: **ICP_200.7_W**	Units: **mg/L**	Prep Date: **10/15/2024**	RunNo: **53380**
Client ID: **PBW**	Batch ID: **27946**	TestNo: **E200.7**	**E3005**	Analysis Date: **10/15/2024**	SeqNo: **879849**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum, Dissolved	ND	0.0200									

Sample ID: **LCS-27946**	SampType: **LCS**	TestCode: **ICP_200.7_W**	Units: **mg/L**	Prep Date: **10/15/2024**	RunNo: **53380**
Client ID: **LCSW**	Batch ID: **27946**	TestNo: **E200.7**	**E3005**	Analysis Date: **10/15/2024**	SeqNo: **879850**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum, Dissolved	1.02	0.0200	1.000	0	102	85	115				

Sample ID: **24100233-01DMS**	SampType: **MS**	TestCode: **ICP_200.7_W**	Units: **mg/L**	Prep Date: **10/15/2024**	RunNo: **53380**
Client ID: **BatchQC**	Batch ID: **27946**	TestNo: **E200.7**	**E3005**	Analysis Date: **10/15/2024**	SeqNo: **879852**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum, Dissolved	10.7	0.0200	11.00	0	97.4	70	130				

Sample ID: **24100233-01DMSD**	SampType: **MSD**	TestCode: **ICP_200.7_W**	Units: **mg/L**	Prep Date: **10/15/2024**	RunNo: **53380**
Client ID: **BatchQC**	Batch ID: **27946**	TestNo: **E200.7**	**E3005**	Analysis Date: **10/15/2024**	SeqNo: **879853**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum, Dissolved	10.7	0.0200	11.00	0	97.1	70	130	10.72	0.290	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 comtrol 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#: **24100490**

25-Oct-24

Client: Sprague River Water Quality Lab
Project: Karuk RES

TestCode: **ICP_200.7_W_DISS2**

Sample ID:	**MB-28068**	SampType:	**MBLK**	TestCode:	**ICP_200.7_W**	Units:	**mg/L**	Prep Date:	**10/24/2024**	RunNo:	**53658**
Client ID:	**PBW**	Batch ID:	**28068**	TestNo:	**E200.7**	**E3005**		Analysis Date:	**10/24/2024**	SeqNo:	**884368**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum, Dissolved	ND	0.0200									

Sample ID:	**LCS-28068**	SampType:	**LCS**	TestCode:	**ICP_200.7_W**	Units:	**mg/L**	Prep Date:	**10/24/2024**	RunNo:	**53658**
Client ID:	**LCSW**	Batch ID:	**28068**	TestNo:	**E200.7**	**E3005**		Analysis Date:	**10/24/2024**	SeqNo:	**884369**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum, Dissolved	1.06	0.0200	1.000	0	106	85	115				

Sample ID:	**24100490-02DMS**	SampType:	**MS**	TestCode:	**ICP_200.7_W**	Units:	**mg/L**	Prep Date:	**10/24/2024**	RunNo:	**53658**
Client ID:	**4100903-02**	Batch ID:	**28068**	TestNo:	**E200.7**	**E3005**		Analysis Date:	**10/24/2024**	SeqNo:	**884371**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum, Dissolved	11.5	0.0200	11.00	0.1366	104	70	130				

Sample ID:	**24100490-02DMSD**	SampType:	**MSD**	TestCode:	**ICP_200.7_W**	Units:	**mg/L**	Prep Date:	**10/24/2024**	RunNo:	**53658**
Client ID:	**4100903-02**	Batch ID:	**28068**	TestNo:	**E200.7**	**E3005**		Analysis Date:	**10/24/2024**	SeqNo:	**884372**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum, Dissolved	11.4	0.0200	11.00	0.1366	103	70	130	11.55	0.940	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 comtrol 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#: **24100490**

25-Oct-24

Client: Sprague River Water Quality Lab
Project: Karuk RES

TestCode: **TOC_5310C**

Sample ID: **MB**	SampType: **MBLK**	TestCode: **TOC_5310C**	Units: **mg/L**	Prep Date: **10/17/2024**	RunNo: **53511**
Client ID: **PBW**	Batch ID: **R53511**	TestNo: **A5310C**		Analysis Date: **10/17/2024**	SeqNo: **881990**

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: **LCS - 15599**	SampType: **LCS**	TestCode: **TOC_5310C**	Units: **mg/L**	Prep Date: **10/17/2024**	RunNo: **53511**
Client ID: **LCSW**	Batch ID: **R53511**	TestNo: **A5310C**		Analysis Date: **10/17/2024**	SeqNo: **881991**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Total	3.80	0.500	3.750	0	101	90	110				

Sample ID: **24100490-01ADUP**	SampType: **DUP**	TestCode: **TOC_5310C**	Units: **mg/L**	Prep Date: **10/17/2024**	RunNo: **53511**
Client ID: **4100903-01**	Batch ID: **R53511**	TestNo: **A5310C**		Analysis Date: **10/17/2024**	SeqNo: **881993**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Total	2.78	0.500						2.851	2.64	15	

Sample ID: **24100490-02AMS**	SampType: **MS**	TestCode: **TOC_5310C**	Units: **mg/L**	Prep Date: **10/17/2024**	RunNo: **53511**
Client ID: **4100903-02**	Batch ID: **R53511**	TestNo: **A5310C**		Analysis Date: **10/17/2024**	SeqNo: **881995**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Total	6.60	0.500	2.500	3.812	111	85	115				

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 comtrol limits due to Matrix Interference	ND	Not Detected at the Reporting Limit
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Sample Log-In Check List

Client Name: **SPRAGUERIVERWATER** Work Order Number: **24100490** RcptNo: **1**

Logged by:	**Erin Hernandez**	**10/10/2024 10:35:00 AM**	Erin Hernandez
Completed By:	**Danielle Garten**	**10/16/2024 10:35:20 AM**	Danielle Garten
Reviewed By:	**Tamra Schmedemann**	**10/23/2024 8:56:18 AM**	Tamra Schmedemann

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 ☐
    HNO3 pH<2
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? Yes ☑ No ☐
    (Note discrepancies on chain of custody)
14. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
15. Is it clear what analyses were requested? Yes ☑ No ☐
16. Were all holding times able to be met? Yes ☑ No ☐
    (If no, notify customer for authorization.)

Special Handling (if applicable)

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

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

18. Additional remarks:

Cooler Information

Cooler No	Temp ºC	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.9	Good				EH

NEILSON RESEARCH CORPORATION

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: Karuk 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 × 1.50)
☐ Express: 3 Business Days (List × 1.75)
☐ Rush: 2 Business Days (List × 2.00)
☐ Rush: 1 Business Day (List × 2.50)
☐ Rush: Same Day (List × 3.00)
Authorized ☐ Yes ☐ No

Section E Sample Information

Analysis Requested

	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)
1	4100903 -01	comp	water	10/8/2024	0742	8	✓	✓	✓	✓		01
2	4100903 -02	comp	water	10/8/2024	0945	8	✓	✓	✓	✓		02
3	4100903 -03	comp	water	10/8/2024	1129	8	✓	✓	✓	✓		03
4	4100903 -04	comp	water	10/8/2024	1221	~~5~~	✓	✓				04
5	4100903 -05	comp	water	10/8/2024	1322	6	✓	✓				05
6	4100903 -06	comp	water	10/9/2024	1018	8	✓	✓	✓	✓		06
7	4100903 -07	comp	water	10/9/2024	0853	6	✓	✓				07
8	4100903 -08	comp	water	10/9/2024	1038	6	✓	✓				08
9	4100903 -09	comp	water	10/9/2024	0900	6	✓	✓				09

NRC Workorder # (Lab Use Only) 24100490

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

Section F Relinquish/Receive

	Sign	Print	Date	Time
Relinquished By:	Ben A. Harris	Ben A. Harris	10/9/2024	1134
Received By:				
Relinquished By:				
Received By:				
Relinquished By:				
Received By Laboratory:		Cora Hernandez	10/10/24	10:35

Section G Lab Use Only

Temp: 3.9°C IR
≤6°C: ✓ Yes ___ No
Received on Ice: ✓ Yes ___ No
Number of Bottles Received: 61
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 ___

Effective 6/19/2020

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Data Flags

WO#: **24100490**
Date: **10/25/2024**

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.<<>>