



RJ Lee Group, Inc. | Columbia Basin Analytical Laboratories
2710 North 20th Avenue, Pasco WA 99301
Tel: (509) 545-4989 | Fax: (509) 544-6010

CH2M Hill Plateau Remediation Company - C01282F
825 Jadwin Avenue
Richland, WA 99352

01/13/21
Contract: 74392

Subject: Chemical Analysis Report, SDG Number: RJLG20C0210

Columbia Basin Analytical Laboratories received 1 sample(s) on 12/16/20 for analysis. These sample(s) have been assigned a login order number of W012136, SDG number RJLG20C0210. Enclosed is the final report that consists of a summary report of the sample(s), and a copy of the chain of custody. If provided by customer on COC, sample volume is recorded on the laboratory report and has been used to calculate final results.

General Lab Comments

The results provided in this report relate only to the items tested. Sample(s) were received in acceptable conditions unless otherwise noted in the comments above. Sample(s) have not been field blank corrected unless otherwise noted in the general set comments above. Results included in the report apply to the sample as it was received. Information provided by customer can affect validity of results. The sample(s) were prepared and analyzed in compliance with EPA 300.0. The working analytical concentration for samples prepared by this method is a 2x dilution of the digestate. This test report shall not be reproduced, except in full, without written approval of Columbia Basin Analytical Laboratories. Any questions, please contact our office.

We certify that this data package is in compliance with the SOW, both technically and for completeness, including a full description of, explanation of, and corrective actions for, any and all data deviations, from either the analyses requested or the case narrative requested. Release of the data contained in this data package has been authorized by the Laboratory Director or a designee and the laboratory's client service representative as verified by their signatures on this report. This report has been technically reviewed by the following individual:

A handwritten signature in black ink that reads 'Krystin Gilman'.

12/21/20

Inorganics Manager Krystin Gilman

If you have any questions please feel free to contact Krystin Gilman at kgilman@rjleegroup.com or 509-545-4989.

This report has been administratively reviewed and approved by the following individual:

A handwritten signature in black ink that reads 'JJ Furlong'.

01/13/21

Project Manager JJ Furlong

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WWW.RJLEEGROUP.COM

Report Template: EnvironmentalA.rpt

Approved: 12/21/20 15:26
Report Time Stamp: 01/13/21 08:42



Heather Medley
 CH2M Hill Plateau Remediation
 Company - C01282F
 825 Jadwin Avenue
 Richland, WA 99352
 Client Project: Anions

Laboratory Report

RJ Lee Group No.: W012136
 SDG No: RJLG20C0210
 Samples Received: 12/16/20 08:28
 Analysis/Prep Date: 12/16/20 14:08
 Report Date: 01/13/21 08:42

Sample Name: B3VBF4 **Batch No:** BL00070 **Date Sampled:** 12/15/20 13:56
RJ Lee Grp. ID: W012136-01 **Matrix:** Water **Date Analyzed:** 12/16/20 14:08

Analyte	Method	Result µg/mL	PQL µg/mL	MDL µg/mL	Dilution Factors	Qualifiers
Chloride	EPA 9056	3.06	0.06	0.03	2	D
Nitrate as NO ₃ -N	EPA 9056	0.25	0.05	0.02	2	D
Orthophosphate PO ₄ -P	EPA 9056	< 0.05	0.10	0.05	2	D, U
Sulfate	EPA 9056	44.3	0.75	0.38	5	D

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Heather Medley
CH2M Hill Plateau
Remediation Company -
825 Jadwin Avenue
Richland, WA 99352
Client Project: Anions

Quality Control

Water

RJ Lee Group No.: W012136
SDG No.: RJLG20C0210
Samples Received: 12/16/20 08:28
Analysis/Prep Date: 12/16/20 11:11
Report Date: 01/13/21 08:42

Analyte	CAS NO.	QC Sample ID	Expected µg/mL	Result µg/mL	MDL µg/mL	PQL µg/mL	RPD	% REC	Recovery Limits	Qualifier & Comments
Chloride	16887-00-6	Blank	<0.02	<0.02	0.02	0.03				U BL00070
Nitrate as NO3-N	14797-55-8	Blank	<0.01	<0.01	0.01	0.02				U BL00070
Orthophosphate PO4-P	14265-44-2	Blank	<0.03	<0.03	0.03	0.05				U BL00070
Sulfate	14808-79-8	Blank	<0.08	<0.08	0.08	0.15				U BL00070
Chloride	16887-00-6	LCS	1.50	1.42	0.02	0.03		94.7	80 - 120	BL00070
Nitrate as NO3-N	14797-55-8	LCS	1.13	1.07	0.01	0.02		94.4	80 - 120	BL00070
Orthophosphate PO4-P	14265-44-2	LCS	2.45	2.32	0.03	0.05		94.6	80 - 120	BL00070
Sulfate	14808-79-8	LCS	7.50	7.10	0.08	0.15		94.7	80 - 120	BL00070
Chloride	16887-00-6	Matrix Spike	1.81	1.88	0.15	0.30		105	75 - 125	D BL00070, W012136-01
Nitrate as NO3-N	14797-55-8	Matrix Spike	1.26	1.24	0.02	0.05		98.8	75 - 125	D BL00070, W012136-01
Orthophosphate PO4-P	14265-44-2	Matrix Spike	2.44	2.40	0.05	0.10		98.0	75 - 125	D BL00070, W012136-01
Sulfate	14808-79-8	Matrix Spike	11.93	11.60	0.75	1.50		95.4	75 - 125	D BL00070, W012136-01
Chloride	16887-00-6	Matrix Spike Dup	1.81	1.77	0.15	0.30	6.20	97.3	75 - 125	D BL00070, W012136-01
Nitrate as NO3-N	14797-55-8	Matrix Spike Dup	1.26	1.24	0.02	0.05	0.64	98.1	75 - 125	D BL00070, W012136-01
Orthophosphate PO4-P	14265-44-2	Matrix Spike Dup	2.44	2.39	0.05	0.10	0.49	97.5	75 - 125	D BL00070, W012136-01
Sulfate	14808-79-8	Matrix Spike Dup	11.93	11.60	0.75	1.50	0.23	95.8	75 - 125	D BL00070, W012136-01

**Report Qualifiers:**

> = Result greater than quantifiable range or greater than upper limit of the analysis range

B = Inorganics and Wetchem: The analyte was detected at a value <RDL, but \geq IDL/MDL (as appropriate)

Organics: The analyte was detected in both the associated QC blank and in the sample, and the blank concentration exceeded the customer's contractual requirements

C = The analyte was detected in both the sample and the associated QC blank, and the sample concentration was \leq 5X the blank concentration

D = Analyte was reported at a secondary dilution factor

J = Organics: Estimated value; (1) constituent detected at a level <RDL or PQL and \geq MDL and estimated concentrations of TICs

o = All: The associated LCS recovery is outside control limits

N = Spike and/or spike duplicate sample recovery is outside control limits

U = Analyzed for but not detected above limiting criteria

X or Y or Z = The result-specific translation of this qualifier code is provided in the hardcopy data report and/or case narrative.

Additional result-specific translation information may also be found in the RESULT_COMMENT field for this record.

A handwritten signature in cursive script, appearing to read "Krystin Gilman".

Inorganics Manager Krystin Gilman

These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, RJ Lee Group will store the samples for a period of ninety (90) days before discarding. A shipping and handling fee will be assessed for the return of any samples. Unless otherwise noted, samples were received in an acceptable condition. This laboratory operates in accordance with ISO 17025 guidelines, and holds limited scopes of accreditation under ORELAP Lab Code 4061 AIHA-LAP, LLC Lab ID 178656 EPA ID WA01195 and WA DOE Lab ID C859. This report may not be used to claim product endorsement by any laboratory accrediting agency. The results contained in this report relate only to the items tested or to the sample(s) as received by the laboratory. Any reproduction of this document must be in full for the report to be valid. Quality control data is available upon request.

W012136

REQUIRED TAT
30 Days

COLLECTOR Larry Rosane
CHPRC

COMPANY CONTACT
SUMNER, LC

TELEPHONE NO.
376-3922

PROJECT COORDINATOR
SUMNER, LC

SAMPLING LOCATION
C9721 POST DEVELOPMENT

PROJECT DESIGNATION
100-HR3 Well Installation sampling FY19 - Post Development

FIELD LOGBOOK NO.
HNF-N-645 2-47

SAF NO.
F20-013

PURCHASE ORDER/CHARGE CODE
300115

BILL OF LADING/AIR BILL NO.

ICE CHEST NO.
GNE-181

ACTUAL SAMPLE DEPTH ft
89.0

METHOD OF SHIPMENT
ORIGINAL
FEDERAL EXPRESS

SHIPPED TO
GET Laboratories LLC RJ Lee
10-1-2020

MATRIX*
A=Air
DL=Drum
Liquids
DS=Drum
Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

PRESERVATION
Cool <=6C

HOLDING TIME
48 Hours

TYPE OF CONTAINER
G/P

NO. OF CONTAINER(S)
1

VOLUME
125mL

POSSIBLE SAMPLE HAZARDS/ REMARKS
*Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/JATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.

SPECIAL HANDLING AND/OR STORAGE
N/A

SAMPLE ANALYSIS
SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SPECIAL INSTRUCTIONS
TRVL-20-037
(1) 9056_ANIONS_IC: COMMON {Chloride, Nitrogen in Nitrate, Sulfate};
9056_ANIONS_IC: COMMON (Add-on) {Phosphorus in phosphate};

CHAIN OF POSSESSION
RELINQUISHED BY/REMOVED FROM

DATE/TIME

SIGN/ PRINT NAMES
LARRY ROSANE
CHPRC

RECEIVED BY/STORED IN
SSU-1

DATE/TIME
DEC 15 2020 1530

DATE/TIME
DEC 16 2020 0650

DATE/TIME
DEC 15 2020 1530

DATE/TIME
DEC 16 2020 0650

SAMPLE NO.
93VBF4

FILTERED
N/A

WATER

MATRIX*
DEC 15 2020 1356

SAMPLE DATE
DEC 15 2020 1356

SAMPLE TIME
V

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W012136

RJ Lee Group Inc

Client: CH2M Hill Plateau Remediation Company - C01282F Project: Anions COC #: F20-013	Project Manager: Krystin Gilman Project Number: 74392 SDG Number: RJLG20C0210 PO #: 300115
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Report To: CH2M Hill Plateau Remediation Company - C01282F Heather Medley 825 Jadwin Avenue Richland, WA 99352 Phone: (509) 373-6909 Fax:	Invoice To: CH2M Hill Plateau Remediation Company - C01282F Sample Management 825 Jadwin Avenue Richland, WA 99352 Phone: (509) 376-6427 Fax:
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Date Due: 1/19/2021 (21 day TAT)	
Received By: Lynn Porter	Date Received: 12/16/20 08:28
Logged In By: Lynn Porter	Date Logged In: 12/16/20 08:38

Samples Received at:	2.9°C
Custody Seals	Yes
Containers Intact	Yes
COC/Labels Agree	Yes
Preservation Confirmed	No
Received On Ice	Yes

RJLG ID	Sample Name	Analysis	Matrix	Date Sampled	TAT	Date Due
W012136-01	B3VBF4	Anions by EPA 300	Non-Potable Water	12/15/20 13:56	21	1/19/2021
	F20-013-004	Comments: 9056_ANIONS_IC				