



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

11/12/20

Contract: 74392

Subject: Chemical Analysis Report, SDG Number: RJLG20C0135

Columbia Basin Analytical Laboratories received 12 sample(s) on 10/29/20 for analysis. These sample(s) have been assigned a login order number of W010290 and SDG# RJLG20C0135. 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 TO-15. This test report shall not be reproduced, except in full, without written approval of Columbia Basin Analytical Laboratories. Any questions, please contact our office.

D Qualifiers:

Samples are pressure checked and diluted 2x upon receipt. Reporting limits are adjusted for this dilution factor.

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 'L. Joe Sears'.

11/12/20

Principle Scientist L. Joe Sears

If you have any questions, please feel free to contact L. Joe Sears at jsears@rjleegroup.com or at 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'.

11/12/20

Project Manager JJ Furlong

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Heather Medley
CH2M Hill Plateau Remediation
Company - C01282F
825 Jadwin Avenue
Richland, WA 99352
Client Project: TO-15

Laboratory Report

RJ Lee Group No.: W010290

SDG No.: RJLG20C0135

Samples Received: 10/29/20 14:15

Analysis/Prep Date: 11/3/20 03:27

Report Date: 11/12/20 13:33

Sample Name: B3Y6T6 **Batch:** BJ00127 **Date Sampled:** 10/29/20 09:13
RJ Lee Grp. ID: W010290-01 **Matrix:** Air/Emission No Vol **Date Analyzed:** 11/03/20 03:27

Analyte	Method	Result ppbv	PQL ppbv	MDL ppbv	Dilution Factor	Qualifiers
1,1,1-Trichloroethane	EPA TO-15	<0.21	0.41	0.21	2	D, U
1,1-Dichloroethene	EPA TO-15	<0.22	0.43	0.22	2	D, U
1,2-Dichloroethane	EPA TO-15	<0.21	0.42	0.21	2	D, U
Acetone	EPA TO-15	3.56	0.44	0.22	2	B, D
Benzene	EPA TO-15	<0.21	0.43	0.21	2	D, U
Carbon tetrachloride	EPA TO-15	521	4.20	2.10	2	D
Chloroform	EPA TO-15	6.08	0.43	0.22	2	D
Dibromochloromethane	EPA TO-15	<0.22	0.44	0.22	2	D, U
Methylene Chloride	EPA TO-15	<0.22	0.44	0.22	2	D, U
Trichloroethene	EPA TO-15	<0.21	0.42	0.21	2	D, U
Vinyl chloride	EPA TO-15	<0.20	0.40	0.20	2	D, U

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Sample Name: B3Y6T7 **Batch:** BJ00127 **Date Sampled:** 10/29/20 09:18
RJ Lee Grp. ID: W010290-02 **Matrix:** Air/Emission No Vol **Date Analyzed:** 11/03/20 04:16

Analyte	Method	Result ppbv	PQL ppbv	MDL ppbv	Dilution Factor	Qualifiers
1,1,1-Trichloroethane	EPA TO-15	<0.21	0.41	0.21	2	D, U
1,1-Dichloroethene	EPA TO-15	<0.22	0.43	0.22	2	D, U
1,2-Dichloroethane	EPA TO-15	<0.21	0.42	0.21	2	D, U
Acetone	EPA TO-15	4.24	0.44	0.22	2	B, D
Benzene	EPA TO-15	<0.21	0.43	0.21	2	D, U
Carbon tetrachloride	EPA TO-15	310	4.20	2.10	2	D
Chloroform	EPA TO-15	2.16	0.43	0.22	2	D
Dibromochloromethane	EPA TO-15	<0.22	0.44	0.22	2	D, U
Methylene Chloride	EPA TO-15	<0.22	0.44	0.22	2	D, U
Trichloroethene	EPA TO-15	<0.21	0.42	0.21	2	D, U
Vinyl chloride	EPA TO-15	<0.20	0.40	0.20	2	D, U

Sample Name: B3Y6T5 **Batch:** BJ00127 **Date Sampled:** 10/29/20 09:21
RJ Lee Grp. ID: W010290-03 **Matrix:** Air/Emission No Vol **Date Analyzed:** 11/03/20 05:04

Analyte	Method	Result ppbv	PQL ppbv	MDL ppbv	Dilution Factor	Qualifiers
1,1,1-Trichloroethane	EPA TO-15	<0.21	0.41	0.21	2	D, U
1,1-Dichloroethene	EPA TO-15	<0.22	0.43	0.22	2	D, U
1,2-Dichloroethane	EPA TO-15	<0.21	0.42	0.21	2	D, U
Acetone	EPA TO-15	10.2	0.44	0.22	2	B, D
Benzene	EPA TO-15	<0.21	0.43	0.21	2	D, U
Carbon tetrachloride	EPA TO-15	281	4.20	2.10	2	D
Chloroform	EPA TO-15	1.08	0.43	0.22	2	D
Dibromochloromethane	EPA TO-15	<0.22	0.44	0.22	2	D, U
Methylene Chloride	EPA TO-15	<0.22	0.44	0.22	2	D, U
Trichloroethene	EPA TO-15	0.88	0.42	0.21	2	D
Vinyl chloride	EPA TO-15	<0.20	0.40	0.20	2	D, U

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Sample Name: B3Y6T3 **Batch:** BJ00127 **Date Sampled:** 10/29/20 09:26
RJ Lee Grp. ID: W010290-04 **Matrix:** Air/Emission No Vol **Date Analyzed:** 11/03/20 05:52

Analyte	Method	Result ppbv	PQL ppbv	MDL ppbv	Dilution Factor	Qualifiers
1,1,1-Trichloroethane	EPA TO-15	<0.21	0.41	0.21	2	D, U
1,1-Dichloroethene	EPA TO-15	<0.22	0.43	0.22	2	D, U
1,2-Dichloroethane	EPA TO-15	<0.21	0.42	0.21	2	D, U
Acetone	EPA TO-15	23.6	0.44	0.22	2	B, D
Benzene	EPA TO-15	<0.21	0.43	0.21	2	D, U
Carbon tetrachloride	EPA TO-15	539	4.20	2.10	2	D
Chloroform	EPA TO-15	6.44	0.43	0.22	2	D
Dibromochloromethane	EPA TO-15	<0.22	0.44	0.22	2	D, U
Methylene Chloride	EPA TO-15	<0.22	0.44	0.22	2	D, U
Trichloroethene	EPA TO-15	<0.21	0.42	0.21	2	U
Vinyl chloride	EPA TO-15	<0.20	0.40	0.20	2	D, U

Sample Name: B3Y6T4 **Batch:** BJ00127 **Date Sampled:** 10/29/20 09:30
RJ Lee Grp. ID: W010290-05 **Matrix:** Air/Emission No Vol **Date Analyzed:** 11/03/20 06:41

Analyte	Method	Result ppbv	PQL ppbv	MDL ppbv	Dilution Factor	Qualifiers
1,1,1-Trichloroethane	EPA TO-15	<0.21	0.41	0.21	2	D, U
1,1-Dichloroethene	EPA TO-15	<0.22	0.43	0.22	2	D, U
1,2-Dichloroethane	EPA TO-15	<0.21	0.42	0.21	2	D, U
Acetone	EPA TO-15	5.92	0.44	0.22	2	B, D
Benzene	EPA TO-15	<0.21	0.43	0.21	2	D, U
Carbon tetrachloride	EPA TO-15	436	4.20	2.10	2	D
Chloroform	EPA TO-15	3.04	0.43	0.22	2	D
Dibromochloromethane	EPA TO-15	<0.22	0.44	0.22	2	D, U
Methylene Chloride	EPA TO-15	<0.22	0.44	0.22	2	D, U
Trichloroethene	EPA TO-15	<0.21	0.42	0.21	2	U
Vinyl chloride	EPA TO-15	<0.20	0.40	0.20	2	D, U

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Sample Name: B3Y6T2 **Batch:** BJ00127 **Date Sampled:** 10/29/20 09:33
RJ Lee Grp. ID: W010290-06 **Matrix:** Air/Emission No Vol **Date Analyzed:** 11/03/20 07:29

Analyte	Method	Result ppbv	PQL ppbv	MDL ppbv	Dilution Factor	Qualifiers
1,1,1-Trichloroethane	EPA TO-15	<0.21	0.41	0.21	2	D, U
1,1-Dichloroethene	EPA TO-15	<0.22	0.43	0.22	2	D, U
1,2-Dichloroethane	EPA TO-15	<0.21	0.42	0.21	2	D, U
Acetone	EPA TO-15	6.16	0.44	0.22	2	B, D
Benzene	EPA TO-15	<0.21	0.43	0.21	2	D, U
Carbon tetrachloride	EPA TO-15	270	4.20	2.10	2	D
Chloroform	EPA TO-15	1.08	0.43	0.22	2	D
Dibromochloromethane	EPA TO-15	<0.22	0.44	0.22	2	D, U
Methylene Chloride	EPA TO-15	<0.22	0.44	0.22	2	D, U
Trichloroethene	EPA TO-15	0.84	0.42	0.21	2	
Vinyl chloride	EPA TO-15	<0.20	0.40	0.20	2	D, U

Sample Name: B3Y6T0 **Batch:** BJ00127 **Date Sampled:** 10/29/20 09:40
RJ Lee Grp. ID: W010290-07 **Matrix:** Air/Emission No Vol **Date Analyzed:** 11/03/20 08:17

Analyte	Method	Result ppbv	PQL ppbv	MDL ppbv	Dilution Factor	Qualifiers
1,1,1-Trichloroethane	EPA TO-15	<0.21	0.41	0.21	2	D, U
1,1-Dichloroethene	EPA TO-15	<0.22	0.43	0.22	2	D, U
1,2-Dichloroethane	EPA TO-15	<0.21	0.42	0.21	2	D, U
Acetone	EPA TO-15	13.2	0.44	0.22	2	B, D
Benzene	EPA TO-15	<0.21	0.43	0.21	2	D, U
Carbon tetrachloride	EPA TO-15	0.96	0.42	0.21	2	D
Chloroform	EPA TO-15	<0.22	0.43	0.22	2	D, U
Dibromochloromethane	EPA TO-15	<0.22	0.44	0.22	2	D, U
Methylene Chloride	EPA TO-15	<0.22	0.44	0.22	2	D, U
Trichloroethene	EPA TO-15	<0.21	0.42	0.21	2	U
Vinyl chloride	EPA TO-15	<0.20	0.40	0.20	2	D, U

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Sample Name: B3Y6T1 **Batch:** BJ00127 **Date Sampled:** 10/29/20 09:44
RJ Lee Grp. ID: W010290-08 **Matrix:** Air/Emission No Vol **Date Analyzed:** 11/03/20 09:05

Analyte	Method	Result ppbv	PQL ppbv	MDL ppbv	Dilution Factor	Qualifiers
1,1,1-Trichloroethane	EPA TO-15	<0.21	0.41	0.21	2	D, U
1,1-Dichloroethene	EPA TO-15	<0.22	0.43	0.22	2	D, U
1,2-Dichloroethane	EPA TO-15	<0.21	0.42	0.21	2	D, U
Acetone	EPA TO-15	5.36	0.44	0.22	2	B, D
Benzene	EPA TO-15	<0.21	0.43	0.21	2	D, U
Carbon tetrachloride	EPA TO-15	<0.21	0.42	0.21	2	D, U
Chloroform	EPA TO-15	<0.22	0.43	0.22	2	D, U
Dibromochloromethane	EPA TO-15	<0.22	0.44	0.22	2	D, U
Methylene Chloride	EPA TO-15	<0.22	0.44	0.22	2	D, U
Trichloroethene	EPA TO-15	<0.21	0.42	0.21	2	U
Vinyl chloride	EPA TO-15	<0.20	0.40	0.20	2	D, U

Sample Name: B3Y6R9 **Batch:** BJ00127 **Date Sampled:** 10/29/20 09:50
RJ Lee Grp. ID: W010290-09 **Matrix:** Air/Emission No Vol **Date Analyzed:** 11/03/20 09:54

Analyte	Method	Result ppbv	PQL ppbv	MDL ppbv	Dilution Factor	Qualifiers
1,1,1-Trichloroethane	EPA TO-15	<0.21	0.41	0.21	2	D, U
1,1-Dichloroethene	EPA TO-15	<0.22	0.43	0.22	2	D, U
1,2-Dichloroethane	EPA TO-15	<0.21	0.42	0.21	2	D, U
Acetone	EPA TO-15	4.88	0.44	0.22	2	B, D
Benzene	EPA TO-15	0.48	0.43	0.21	2	D
Carbon tetrachloride	EPA TO-15	7.00	0.42	0.21	2	D
Chloroform	EPA TO-15	<0.22	0.43	0.22	2	D, U
Dibromochloromethane	EPA TO-15	<0.22	0.44	0.22	2	D, U
Methylene Chloride	EPA TO-15	<0.22	0.44	0.22	2	D, U
Trichloroethene	EPA TO-15	<0.21	0.42	0.21	2	U
Vinyl chloride	EPA TO-15	<0.20	0.40	0.20	2	D, U

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Sample Name: B3Y6R6 **Batch:** BJ00127 **Date Sampled:** 10/29/20 09:57
RJ Lee Grp. ID: W010290-10 **Matrix:** Air/Emission No Vol **Date Analyzed:** 11/03/20 14:28

Analyte	Method	Result ppbv	PQL ppbv	MDL ppbv	Dilution Factor	Qualifiers
1,1,1-Trichloroethane	EPA TO-15	<0.21	0.41	0.21	2	D, U
1,1-Dichloroethene	EPA TO-15	0.52	0.43	0.22	2	D
1,2-Dichloroethane	EPA TO-15	<0.21	0.42	0.21	2	D, U
Acetone	EPA TO-15	6.28	0.44	0.22	2	B, D
Benzene	EPA TO-15	<0.21	0.43	0.21	2	D, U
Carbon tetrachloride	EPA TO-15	523	4.20	2.10	2	D
Chloroform	EPA TO-15	68.1	0.43	0.22	2	D
Dibromochloromethane	EPA TO-15	<0.22	0.44	0.22	2	D, U
Methylene Chloride	EPA TO-15	1.00	0.44	0.22	2	D
Trichloroethene	EPA TO-15	54.1	0.42	0.21	2	
Vinyl chloride	EPA TO-15	<0.20	0.40	0.20	2	D, U

Sample Name: B3Y6R7 **Batch:** BJ00127 **Date Sampled:** 10/29/20 10:00
RJ Lee Grp. ID: W010290-11 **Matrix:** Air/Emission No Vol **Date Analyzed:** 11/03/20 15:17

Analyte	Method	Result ppbv	PQL ppbv	MDL ppbv	Dilution Factor	Qualifiers
1,1,1-Trichloroethane	EPA TO-15	<0.21	0.41	0.21	2	D, U
1,1-Dichloroethene	EPA TO-15	<0.22	0.43	0.22	2	D, U
1,2-Dichloroethane	EPA TO-15	<0.21	0.42	0.21	2	D, U
Acetone	EPA TO-15	11.8	0.44	0.22	2	B, D
Benzene	EPA TO-15	<0.21	0.43	0.21	2	D, U
Carbon tetrachloride	EPA TO-15	17.2	4.20	2.10	2	D
Chloroform	EPA TO-15	0.36	0.43	0.22	2	D
Dibromochloromethane	EPA TO-15	<0.22	0.44	0.22	2	D, U
Methylene Chloride	EPA TO-15	0.28	0.44	0.22	2	D
Trichloroethene	EPA TO-15	<0.21	0.42	0.21	2	U
Vinyl chloride	EPA TO-15	<0.20	0.40	0.20	2	D, U

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Sample Name: B3Y6R8 **Batch:** BJ00127 **Date Sampled:** 10/29/20 10:09
RJ Lee Grp. ID: W010290-12 **Matrix:** Air/Emission No Vol **Date Analyzed:** 11/03/20 16:05

Analyte	Method	Result ppbv	PQL ppbv	MDL ppbv	Dilution Factor	Qualifiers
1,1,1-Trichloroethane	EPA TO-15	<0.21	0.41	0.21	2	D, U
1,1-Dichloroethene	EPA TO-15	<0.22	0.43	0.22	2	D, U
1,2-Dichloroethane	EPA TO-15	<0.21	0.42	0.21	2	D, U
Acetone	EPA TO-15	5.40	0.44	0.22	2	B, D
Benzene	EPA TO-15	1.04	0.43	0.21	2	D
Carbon tetrachloride	EPA TO-15	0.72	0.42	0.21	2	D
Chloroform	EPA TO-15	<0.22	0.43	0.22	2	D, U
Dibromochloromethane	EPA TO-15	<0.22	0.44	0.22	2	D, U
Methylene Chloride	EPA TO-15	<0.22	0.44	0.22	2	D, U
Trichloroethene	EPA TO-15	<0.21	0.42	0.21	2	U
Vinyl chloride	EPA TO-15	<0.20	0.40	0.20	2	D, U

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Heather Medley
CH2M Hill Plateau
Remediation Company -
825 Jadwin Avenue
Richland, WA 99352
Client Project: TO-15

Quality Control

EPA TO-15

RJ Lee Group No.: W010290
SDG No.: RJLG20C0135
Samples Received: 10/29/20 14:15
Analysis/Prep Date: 11/03/20 01:51
Report Date: 11/12/20 13:33

Analyte	CAS NO.	QC Sample ID	Expected ppbv	Result ppbv	MDL ppbv	PQL ppbv	RPD	% REC	Recovery Limits	Qualifier & Comments
1,1,1-Trichloroethane	71-55-6	MB	<0.05	<0.05	0.05	0.10				U BJ00127
1,1-Dichloroethene	75-35-4	MB	<0.05	<0.05	0.05	0.11				U BJ00127
1,2-Dichloroethane	107-06-2	MB	<0.05	<0.05	0.05	0.10				U BJ00127
Acetone	67-64-1	MB	<0.06	0.83	0.06	0.11				B BJ00127
Benzene	71-43-2	MB	<0.05	<0.05	0.05	0.11				U BJ00127
Carbon tetrachloride	56-23-5	MB	<0.05	<0.05	0.05	0.11				U BJ00127
Chloroform	67-66-3	MB	<0.05	<0.05	0.05	0.11				U BJ00127
Dibromochloromethane	124-48-1	MB	<0.06	<0.06	0.06	0.11				U BJ00127
Methylene Chloride	75-09-2	MB	<0.06	<0.06	0.06	0.11				U BJ00127
Trichloroethene	79-01-6	MB	<0.05	<0.05	0.05	0.10				U BJ00127
Vinyl chloride	75-01-4	MB	<0.05	<0.05	0.05	0.10				U BJ00127
1,1,1-Trichloroethane	71-55-6	LCS	1.00	0.81	0.05	0.10		81.0	68 - 125	BJ00127
1,1-Dichloroethene	75-35-4	LCS	1.00	0.89	0.05	0.11		89.0	61 - 133	BJ00127
1,2-Dichloroethane	107-06-2	LCS	1.00	0.88	0.05	0.10		88.0	65 - 128	BJ00127
Acetone	67-64-1	LCS	1.00	0.93	0.06	0.11		93.0	58 - 128	BJ00127
Benzene	71-43-2	LCS	1.00	0.85	0.05	0.11		85.0	69 - 119	BJ00127
Carbon tetrachloride	56-23-5	LCS	1.00	0.83	0.05	0.11		83.0	68 - 132	BJ00127
Chloroform	67-66-3	LCS	1.00	0.83	0.05	0.11		83.0	68 - 123	BJ00127
Dibromochloromethane	124-48-1	LCS	1.00	0.85	0.06	0.11		85.0	70 - 130	BJ00127
Methylene Chloride	75-09-2	LCS	1.00	0.88	0.06	0.11		88.0	62 - 115	BJ00127
Trichloroethene	79-01-6	LCS	1.00	0.82	0.05	0.10		82.0	71 - 123	BJ00127
Vinyl chloride	75-01-4	LCS	1.00	0.93	0.05	0.10		93.0	64 - 127	BJ00127
1,1,1-Trichloroethane	71-55-6	LCS Dup	1.00	0.78	0.05	0.10	3.77	78.0	68 - 125	BJ00127
1,1-Dichloroethene	75-35-4	LCS Dup	1.00	0.86	0.05	0.11	3.43	86.0	61 - 133	BJ00127
1,2-Dichloroethane	107-06-2	LCS Dup	1.00	0.84	0.05	0.10	4.65	84.0	65 - 128	BJ00127
Acetone	67-64-1	LCS Dup	1.00	0.92	0.06	0.11	1.08	92.0	58 - 128	BJ00127
Benzene	71-43-2	LCS Dup	1.00	0.83	0.05	0.11	2.38	83.0	69 - 119	BJ00127
Carbon tetrachloride	56-23-5	LCS Dup	1.00	0.81	0.05	0.11	2.44	81.0	68 - 132	BJ00127
Chloroform	67-66-3	LCS Dup	1.00	0.81	0.05	0.11	2.44	81.0	68 - 123	BJ00127
Dibromochloromethane	124-48-1	LCS Dup	1.00	0.82	0.06	0.11	3.59	82.0	70 - 130	BJ00127
Methylene Chloride	75-09-2	LCS Dup	1.00	0.87	0.06	0.11	1.14	87.0	62 - 115	BJ00127
Trichloroethene	79-01-6	LCS Dup	1.00	0.79	0.05	0.10	3.73	79.0	71 - 123	BJ00127
Vinyl chloride	75-01-4	LCS Dup	1.00	0.88	0.05	0.10	5.52	88.0	64 - 127	BJ00127

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Report Template: TO-15 Report_Env.rpt

Approved:
Report Time Stamp: 01/18/21 13:33



Heather Medley
CH2M Hill Plateau
Remediation Company -
825 Jadwin Avenue
Richland, WA 99352
Client Project: TO-15

Surrogate Summary

EPA TO-15

RJ Lee Group No.: W010290
SDG No.: RJLG20C0135
Samples Received: 10/29/20 14:15
Analysis/Prep Date: 11/03/20 01:51
Report Date: 11/12/20 13:33

RJ Lee Grp. ID:	Sample Name	Analyte	Expected ppbv	Result ppbv	% REC	Recovery Limits	Qualifier & Comments
BJ00127-BLK1	MB	1,2-Dichloroethane-d4	2.50	2.72	109	75 - 125	
BJ00127-BLK1	MB	1-Bromo-4-Fluorobenzene (BFB)	2.50	2.28	91.2	75 - 125	
BJ00127-BLK1	MB	Toluene-d8	2.50	2.48	99.2	75 - 125	
BJ00127-BS1	LCS	1,2-Dichloroethane-d4	2.50	2.60	104	70 - 130	
BJ00127-BS1	LCS	1-Bromo-4-Fluorobenzene (BFB)	2.50	2.64	106	70 - 130	
BJ00127-BS1	LCS	Toluene-d8	2.50	2.51	100	70 - 130	
BJ00127-BSD1	LCS Dup	1,2-Dichloroethane-d4	2.50	2.60	104	70 - 130	
BJ00127-BSD1	LCS Dup	1-Bromo-4-Fluorobenzene (BFB)	2.50	2.65	106	70 - 130	
BJ00127-BSD1	LCS Dup	Toluene-d8	2.50	2.55	102	70 - 130	
BJ00127-DUP1	Duplicate	1,2-Dichloroethane-d4	2.50	2.71	108	75 - 125	
BJ00127-DUP1	Duplicate	1-Bromo-4-Fluorobenzene (BFB)	2.50	2.25	90.0	75 - 125	
BJ00127-DUP1	Duplicate	Toluene-d8	2.50	2.46	98.4	75 - 125	
W010290-01	B3Y6T6	1,2-Dichloroethane-d4	2.50	2.72	109	75 - 125	
W010290-01	B3Y6T6	1-Bromo-4-Fluorobenzene (BFB)	2.50	2.30	92.0	75 - 125	
W010290-01	B3Y6T6	Toluene-d8	2.50	2.46	98.4	75 - 125	
W010290-02	B3Y6T7	1,2-Dichloroethane-d4	2.50	2.80	112	75 - 125	
W010290-02	B3Y6T7	1-Bromo-4-Fluorobenzene (BFB)	2.50	2.27	90.8	75 - 125	
W010290-02	B3Y6T7	Toluene-d8	2.50	2.48	99.2	75 - 125	
W010290-03	B3Y6T5	1,2-Dichloroethane-d4	2.50	2.80	112	75 - 125	
W010290-03	B3Y6T5	1-Bromo-4-Fluorobenzene (BFB)	2.50	2.34	93.6	75 - 125	
W010290-03	B3Y6T5	Toluene-d8	2.50	2.50	100	75 - 125	
W010290-04	B3Y6T3	1,2-Dichloroethane-d4	2.50	2.76	110	75 - 125	
W010290-04	B3Y6T3	1-Bromo-4-Fluorobenzene (BFB)	2.50	2.38	95.2	75 - 125	
W010290-04	B3Y6T3	Toluene-d8	2.50	2.48	99.2	75 - 125	
W010290-05	B3Y6T4	1,2-Dichloroethane-d4	2.50	2.82	113	75 - 125	
W010290-05	B3Y6T4	1-Bromo-4-Fluorobenzene (BFB)	2.50	2.33	93.2	75 - 125	
W010290-05	B3Y6T4	Toluene-d8	2.50	2.48	99.2	75 - 125	
W010290-06	B3Y6T2	1,2-Dichloroethane-d4	2.50	2.88	115	75 - 125	
W010290-06	B3Y6T2	1-Bromo-4-Fluorobenzene (BFB)	2.50	2.34	93.6	75 - 125	
W010290-06	B3Y6T2	Toluene-d8	2.50	2.51	100	75 - 125	
W010290-07	B3Y6T0	1,2-Dichloroethane-d4	2.50	2.88	115	75 - 125	
W010290-07	B3Y6T0	1-Bromo-4-Fluorobenzene (BFB)	2.50	2.33	93.2	75 - 125	
W010290-07	B3Y6T0	Toluene-d8	2.50	2.53	101	75 - 125	
W010290-08	B3Y6T1	1,2-Dichloroethane-d4	2.50	2.90	116	75 - 125	
W010290-08	B3Y6T1	1-Bromo-4-Fluorobenzene (BFB)	2.50	2.29	91.6	75 - 125	
W010290-08	B3Y6T1	Toluene-d8	2.50	2.51	100	75 - 125	
W010290-09	B3Y6R9	1,2-Dichloroethane-d4	2.50	2.91	116	75 - 125	

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Approved:
Report Time Stamp: 01/18/21 13:33



RJ Lee Grp. ID:	Sample Name	Analyte	Expected ppbv	Result ppbv	% REC	Recovery Limits	Qualifier & Comments
W010290-09	B3Y6R9	1-Bromo-4-Fluorobenzene (BFB)	2.50	2.39	95.6	75 - 125	
W010290-09	B3Y6R9	Toluene-d8	2.50	2.53	101	75 - 125	
W010290-10	B3Y6R6	1,2-Dichloroethane-d4	2.50	2.50	100	75 - 125	
W010290-10	B3Y6R6	1-Bromo-4-Fluorobenzene (BFB)	2.50	2.45	98.0	75 - 125	
W010290-10	B3Y6R6	Toluene-d8	2.50	2.54	102	75 - 125	
W010290-11	B3Y6R7	1,2-Dichloroethane-d4	2.50	2.93	117	75 - 125	
W010290-11	B3Y6R7	1-Bromo-4-Fluorobenzene (BFB)	2.50	2.44	97.6	75 - 125	
W010290-11	B3Y6R7	Toluene-d8	2.50	2.52	101	75 - 125	
W010290-12	B3Y6R8	1,2-Dichloroethane-d4	2.50	2.84	114	75 - 125	
W010290-12	B3Y6R8	1-Bromo-4-Fluorobenzene (BFB)	2.50	2.90	116	75 - 125	
W010290-12	B3Y6R8	Toluene-d8	2.50	3.00	120	75 - 125	

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 ≥ 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 ≤ 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 ≥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.

Principle Scientist L. Joe Sears

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.

January 29, 2021

CH2MHill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		W010290		F16-049-642	PAGE 1 OF 1
COLLECTOR	Kathy Turner CHPRC	COMPANY CONTACT	SUMNER, LC	TELEPHONE NO.	376-3922	PROJECT COORDINATOR	SUMNER, LC
SAMPLING LOCATION	289-T, D4 GAC Unit, Bottom Sample Port	PROJECT DESIGNATION	200 West Pump & Treat - ETBs and BioTreatment VOC Sampling - Gaseous				REQUIRED TAT 15 Days
ICE CHEST NO.	N/A	FIELD LOGBOOK NO.	HNF-N-491-20	ACTUAL SAMPLE DEPTH	N/A	SAF NO.	F16-049
SHIPPED TO	RJ Lee Group, Inc./Center for Laboratory Sciences	OFFSITE PROPERTY NO.	N/A	PURCHASE ORDER/CHARGE CODE	304852	BILL OF LADING/AIR BILL NO.	N/A
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	None	NO. OF CONTAINER(S)	1	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	
POSSIBLE SAMPLE HAZARDS/ REMARKS	*Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/JATTA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.						
SPECIAL HANDLING AND/OR STORAGE	N/A	HOLDING TIME	30 Days	VOLUME	6L		
SAMPLE NO.	33Y6T6	FILTERED	N/A	SAMPLE DATE	OCT 29 2020	SAMPLE TIME	0413

SDG # RJLG20C0135

CHAIN OF POSSESSION		SIGN/PRINT NAMES		SPECIAL INSTRUCTIONS	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	TRVL-21-003	
Kathy Turner CHPRC	OCT 29 2020 1030	Janelle Zunka CHPRC	OCT 29 2020 1030	(1) TO-15_VOA: COMMON {1,1,1-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, Acetone, Benzene, Carbon tetrachloride, Chloroform, Chloromethane, cis-1,2-Dichloroethylene, Dibromochloromethane, Methylene chloride, trans-1,2-Dichloroethylene, Trichloroethane, Vinyl chloride};	
Janelle Zunka CHPRC	OCT 29 2020 1415	Erin Leysberg CHPRC	OCT 29 2020 1415		
FINAL SAMPLE DISPOSITION		DISPOSAL METHOD		DISPOSED BY	
				DATE/TIME	

RJLG20C0135

PRINTED ON 10/14/2020

FSR ID = FSR99721

TRVL NUM = TRVL-21-003

A-6003-618 (REV 3)

January 20, 2021

RJLG20C0135

CH2M Hill Plateau Remediation Company				CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				F16-049-641		PAGE 1 OF 1	
COLLECTOR Kathy Turner CHPRC		COMPANY CONTACT SUMNER, LC		TELEPHONE NO. 376-3922		PROJECT COORDINATOR SUMNER, LC		REQUIRED TAT 15 Days			
SAMPLING LOCATION 289-T, D3 GAC Unit, Bottom Sample Port		PROJECT DESIGNATION 200 West Pump & Treat - ETBs and Biotreatment VOC Sampling - Gaseous		SAFE NO. F16-049		PURCHASE ORDER/CHARGE CODE 304852		ORIGINAL METHOD OF SHIPMENT GOVERNMENT VEHICLE			
ICE CHEST NO. N/A		FIELD LOGBOOK NO. HNF-N-491-20		ACTUAL SAMPLE DEPTH N/A		PURCHASE ORDER/CHARGE CODE 304852					
SHIPPED TO RJ Lee Group, Inc./Center for Laboratory Sciences		OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A							
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		POSSIBLE SAMPLE HAZARDS/ REMARKS *Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/ATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.		PRESERVATION None		SDG*P3V620C0135					
SPECIAL HANDLING AND/OR STORAGE N/A		HOLDING TIME 30 Days		TYPE OF CONTAINER Summa Canister		NO. OF CONTAINER(S) 1		VOLUME 6L			
SAMPLE ANALYSIS		SEE ITEM (1) IN SPECIAL INSTRUCTIONS									
SAMPLE NO.	FILTERED	MATRIX*	SAMPLE DATE	SAMPLE TIME							
83Y6T5	N/A	GASEOUS	OCT 29 2020	0421	✓						

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS	
RELINQUISHED BY/REMOVED FROM Kathy Turner CHPRC	DATE/TIME OCT 29 2020 1030	RECEIVED BY/STORED IN Samelle Zunker CHPRC	DATE/TIME OCT 29 2020 1030	TRVL-21-003 (1) TO-15_VOA: COMMON {1,1,1-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, Acetone, Benzene, Carbon tetrachloride, Chloroform, Chloromethane, cis-1,2-Dichloroethylene, Dibromochloromethane, Methylene chloride, trans-1,2-Dichloroethylene, Trichloroethene, Vinyl chloride};	
Samelle Zunker CHPRC	OCT 29 2020 1415	Samelle Zunker CHPRC	OCT 29 2020 1415		

January 20, 2021

RJLG20C0135

CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		W010290		FL16-049-639	PAGE 1 OF 1	
COLLECTOR	Kathy Turner CHPRC	COMPANY CONTACT	SUMNER, LC	TELEPHONE NO.	376-3922	PROJECT COORDINATOR	SUMNER, LC	
SAMPLING LOCATION	289-T, D2 GAC Unit, Bottom Sample Port	PROJECT DESIGNATION	200 West Pump & Treat - ETBs and BioTreatment VOC Sampling - Gaseous				SAF NO.	FL16-049
ICE CHEST NO.	N/A	FIELD LOGBOOK NO.	HNF-N-491-20	ACTUAL SAMPLE DEPTH	N/A	PURCHASE ORDER/CHARGE CODE	304852	
SHIPPED TO	RJ Lee Group, Inc./Center for Laboratory Sciences	OFFSITE PROPERTY NO.	N/A	BILL OF LADING/AIR BILL NO.	N/A	METHOD OF SHIPMENT	GOVERNMENT VEHICLE	
MATRIX*	A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WT=Wipe X=Other	POSSIBLE SAMPLE HAZARDS/REMARKS	*Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.					
SPECIAL HANDLING AND/OR STORAGE	N/A	PRESERVATION	None	HOLDING TIME	30 Days	TYPE OF CONTAINER	Summa Canister	
SAMPLE NO.	83Y6T3	FILTERED	N/A	MATRIX*	GASEOUS	NO. OF CONTAINER(S)	1	
SAMPLE DATE	OCT 29 2020	SAMPLE TIME	0526	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	✓	VOLUME	6L	

SDG # RJLG20C0135

ORIGINAL

REQUIRED TAT
15 Days

(15 of 25)

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM

DATE/TIME

SIGN/PRINT NAMES
RECEIVED BY/STORED IN

DATE/TIME

SPECIAL INSTRUCTIONS

TRVL-21-003

(1) TO-15_VOA: COMMON {1,1,1-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, Acetone, Benzene, Carbon tetrachloride, Chloroform, Chloromethane, cis-1,2-Dichloroethylene, Dibromochloromethane, Methylene chloride, trans-1,2-Dichloroethylene, Trichloroethene, Vinyl chloride};

Kathy Turner
CHPRC

OCT 29 2020 1030

Janelle Zunker
CHPRC

OCT 29 2020 1030

Janelle Zunker
CHPRC

OCT 29 2020 1415

Janelle Zunker
CHPRC

OCT 29 2020 1415

(1) TO-15_VOA: COMMON {1,1,1-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, Acetone, Benzene, Carbon tetrachloride, Chloroform, Chloromethane, cis-1,2-Dichloroethylene, Dibromochloromethane, Methylene chloride, trans-1,2-Dichloroethylene, Trichloroethene, Vinyl chloride};

FINAL SAMPLE
DISPOSITION

DISPOSAL METHOD

DISPOSED BY

DATE/TIME

PRINTED ON 10/14/2020

FSR ID = FSR99718

TRVL NUM = TRVL-21-003

A-6003-618 (REV 3)

January 20, 2021

CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		W010290		F16-049-640	PAGE 1 OF 1
COLLECTOR Kathy Turner CHPRC	COMPANY CONTACT SUMNER, LC	TELEPHONE NO. 376-3922	PROJECT COORDINATOR SUMNER, LC	REQUIRED TAT 15 Days			
SAMPLING LOCATION 289-T, D2 GAC Unit, Top Sample Port	PROJECT DESIGNATION 200 West Pump & Treat - ETBs and BioTreatment VOC Sampling - Gaseous	SAF NO. F16-049	ORIGINAL				
ICE CHEST NO. N/A	FIELD LOGBOOK NO. HNF-N-491-20	ACTUAL SAMPLE DEPTH N/A	PURCHASE ORDER/CHARGE CODE 304852	METHOD OF SHIPMENT GOVERNMENT VEHICLE			
SHIPPED TO RJ Lee Group, Inc/Center for Laboratory Sciences	OFFSITE PROPERTY NO. N/A	BILL OF LADING/AIR BILL NO. N/A					

MATRIX*	POSSIBLE SAMPLE HAZARDS/ REMARKS	PRESERVATION	None	S06#20 LG 2020135			
A=Air	*Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR/JATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.	HOLDING TIME	30 Days				
DL=Drum							
Liquids							
DS=Drum							
Solids							
L=Liquid							
O=Oil							
S=Soil		TYPE OF CONTAINER	Summa Canister				
SE=Sediment		NO. OF CONTAINER(S)	1				
T=Tissue		VOLUME	6L				
V=Vegetation		SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS				
W=Water							
WT=Wipe							
X=Other							

SAMPLE NO.	FILTERED	MATRIX*	SAMPLE DATE	SAMPLE TIME	
83Y6T4	N/A	GASEOUS	OCT 29 2020	0930	✓

(16 of 25)

RJLG20C0135

CHAIN OF POSSESSION		SIGN/PRINT NAMES		SPECIAL INSTRUCTIONS	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	TRVL-21-003	
Kathy Turner CHPRC	OCT 29 2020 1030	Janelle Zunker CHPRC	OCT 29 2020 1030	(1) TO-15 VOA: COMMON {1,1,1-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, Acetone, Benzene, Carbon tetrachloride, Chloroform, Chloromethane, cis-1,2-Dichloroethylene, Dibromochloromethane, Methylene chloride, trans-1,2-Dichloroethylene, Trichloroethene, Vinyl chloride};	
Janelle Zunker CHPRC	OCT 29 2020 1445	Erin Leisberg PAC	10/29/2020 1415		
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME		

PRINTED ON 10/14/2020

FSR ID = FSR99719

TRVL NUM = TRVL-21-003

A-6003-618 (REV 3)

January 20, 2021

CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		WB010290		F16-049-638	PAGE 1 OF 1
COLLECTOR	Kathy Turner	COMPANY CONTACT	SUNNER, LC	TELEPHONE NO.	376-3922	PROJECT COORDINATOR	SUNNER, LC
SAMPLING LOCATION	CHPRC	PROJECT DESIGNATION	200 West Pump & Treat - ETBs and Biotreatment VOC Sampling - Gaseous			SAF NO.	F16-049
ICE CHEST NO.	289-T, D1 GAC Unit, Bottom Sample Port	FIELD LOGBOOK NO.	HNF-N-491-20	ACTUAL SAMPLE DEPTH	N/A	PURCHASE ORDER/CHARGE CODE	304852
N/A		OFFSITE PROPERTY NO.	N/A	BILL OF LADING/AIR BILL NO.	N/A	METHOD OF SHIPMENT	GOVERNMENT VEHICLE
SHIPPED TO	RJ Lee Group, Inc./Center for Laboratory Sciences	SOG# RJLG20C0135					
MATRIX*	A=Air DI=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	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.				
		PRESERVATION	None	HOLDING TIME	30 days	TYPE OF CONTAINER	Summa Canister
		NO. OF CONTAINER(S)	1	VOLUME	6L	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	
SPECIAL HANDLING AND/OR STORAGE	N/A	SAMPLE ANALYSIS					
SAMPLE NO.	83Y6T2	FILTERED	N/A	MATRIX*		SAMPLE DATE	OCT 29 2020
		GASEOUS				SAMPLE TIME	0935
							✓

CHAIN OF POSSESSION		SIGN/PRINT NAMES		SPECIAL INSTRUCTIONS	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	TRVL-21-003	
Kathy Turner	OCT 29 2020 1030	Janelle Zunker	OCT 29 2020 1030	(1) TO-15_VOA: COMMON {1,1,1-Trichloroethane, 1,1-Dichloroethane, 1,2-Dichloroethane, Acetone, Benzene, Carbon tetrachloride, Chloroform, Chloromethane, cis-1,2-Dichloroethylene, Dibromochloromethane, Methylene chloride, trans-1,2-Dichloroethylene, Trichloroethene, Vinyl chloride};	
CHPRC		CHPRC			
Janelle Zunker	OCT 29 2020 1445	Janelle Zunker	OCT 29 2020 1445		
CHPRC		CHPRC			
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME		
PRINTED ON 10/14/2020	FSR ID = FSR99717	TRVL NUM = TRVL-21-003	A-6003-618 (REV 3)		

RJLG20C0135

January 20, 2021

CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		NOV 29 2020		F16-049-636	PAGE 1 OF 1
COLLECTOR	Kathy Turner CHPRC	COMPANY CONTACT	SUMNER, LC	TELEPHONE NO.	376-3922	PROJECT COORDINATOR	SUMNER, LC
SAMPLING LOCATION	289-T, A2 GAC Unit, Bottom Sample Port	PROJECT DESIGNATION	200 West Pump & Treat - ETBs and BioTreatment VOC Sampling - Gaseous		SAF NO.	F16-049	REQUIRED TAT 15 Days
ICE CHEST NO.	N/A	FIELD LOGBOOK NO.	HNF-N-491-20	ACTUAL SAMPLE DEPTH	N/A	PURCHASE ORDER/CHARGE CODE	304852
SHIPPED TO	RJ Lee Group, Inc./Center for Laboratory Sciences	OFFSITE PROPERTY NO.	N/A	BILL OF LADING/AIR BILL NO.	N/A	METHOD OF SHIPMENT	GOVERNMENT VEHICLE
MATRIX*	A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WT=Wipe X=Other	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	PRESERVATION	None	HOLDING TIME	30 Days	TYPE OF CONTAINER	Summa Canister
		NO. OF CONTAINER(S)	1	VOLUME	6L	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	
SAMPLE NO.	83Y6T0	FILTERED	N/A	MATRIX*	GASEOUS	SAMPLE DATE	OCT 29 2020
						SAMPLE TIME	0940

CHAIN OF POSSESSION	RELINQUISHED BY/REMOVED FROM	DATE/TIME	SIGN/ PRINT NAMES	RECEIVED BY/STORED IN	DATE/TIME	SPECIAL INSTRUCTIONS
	Kathy Turner CHPRC	OCT 29 2020 1030	Janelle Zunko CHPRC	OCT 29 2020 1030		TRVL-21-003 (1) TO-15_VOA: COMMON {1,1,1-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, Acetone, Benzene, Carbon tetrachloride, Chloroform, Chloromethane, ds-1,2-Dichloroethylene, Dibromochloromethane, Methylene chloride, trans-1,2-Dichloroethylene, Trichloroethene, Vinyl chloride};
	Janelle Zunko CHPRC	OCT 29 2020 1415	Janelle Zunko CHPRC	OCT 29 2020 1415		

FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME
PRINTED ON 10/14/2020	FSR ID = FSR99715	TRVL NUM = TRVL-21-003	A-6003-618 (REV 3)

January 20, 2021

RJLG20C0135

CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		WB10290		F16-049-637	PAGE 1 OF 1
COLLECTOR	Kathy Turner CHPRC	COMPANY CONTACT	SUMNER, LC	TELEPHONE NO.	376-3922	PROJECT COORDINATOR	SUMNER, LC
SAMPLING LOCATION	289-T, A2 GAC Unit, Top Sample Port	PROJECT DESIGNATION	200 West Pump & Treat - ETBs and BioTreatment VOC Sampling - Gaseous		SAF NO.	F16-049	REQUIRED TAT 15 Days
ICE CHEST NO.	N/A	FIELD LOGBOOK NO.	HNF-N-491-20	ACTUAL SAMPLE DEPTH	1'A	PURCHASE ORDER/CHARGE CODE	304852
SHIPPED TO	RJ Lee Group, Inc./Center for Laboratory Sciences	OFFSITE PROPERTY NO.	N/A	BILL OF LADING/AIR BILL NO.	N/A	METHOD OF SHIPMENT	GOVERNMENT VEHICLE
MATRIX*	A=Air DL=Drum L=Liquid DS=Drum S=Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WL=Wipe X=Other	POSSIBLE SAMPLE HAZARDS/ REMARKS	*Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR/JATTA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.				
PRESERVATION	None	HOLDING TIME	30 Days	TYPE OF CONTAINER	Summa Canister	NO. OF CONTAINER(S)	1
VOLUME	6L	SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS				
SAMPLE NO.	83Y6T1	FILTERED	N/A	MATRIX*	GASEOUS	SAMPLE DATE	OCT 29 2020
SAMPLE DATE	OCT 29 2020	SAMPLE TIME	0644				

CHAIN OF POSSESSION	RELINQUISHED BY/REMOVED FROM	DATE/TIME	SIGN/ PRINT NAMES	RECEIVED BY/STORED IN	DATE/TIME	SPECIAL INSTRUCTIONS
Kathy Turner CHPRC	Kathy Turner	OCT 29 2020 1030	Janelle Zunker CHPRC	Janelle Zunker	OCT 29 2020 1030	TRVL-21-003 (1) TO-15_VOA: COMMON {1,1,1-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, Acetone, Benzene, Carbon tetrachloride, Chloroform, Chloromethane, ds-1,2-Dichloroethylene, Dibromochloromethane, Methylene chloride, trans-1,2-Dichloroethylene, Trichloroethene, Vinyl chloride};
Janelle Zunker CHPRC	Janelle Zunker	OCT 29 2020 1415	Janelle Zunker	Janelle Zunker	OCT 29 2020 1415	

January 20, 2021

RJLG20C0135

CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		NO 10290		FL16-049-635	PAGE 1 OF 1
COLLECTOR	Kathy Turner CHPRC	COMPANY CONTACT	SUMNER, LC	TELEPHONE NO.	376-3922	PROJECT COORDINATOR	SUMNER, LC
SAMPLING LOCATION	289-T, A1 GAC Unit, Bottom Sample Port	PROJECT DESIGNATION	200 West Pump & Treat - ETBs and BioTreatment VOC Sampling - Gaseous				REQUIRED TAT 15 Days
ICE CHEST NO.	N/A	FIELD LOGBOOK NO.	HNF-N- 441-20	ACTUAL SAMPLE DEPTH	N/A	PURCHASE ORDER/CHARGE CODE	304852
SHIPPED TO	RJ Lee Group, Inc./Center for Laboratory Sciences	OFFSITE PROPERTY NO.	N/A	BILL OF LADING/AIR BILL NO.	N/A	METHOD OF SHIPMENT	GOVERNMENT VEHICLE

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	POSSIBLE SAMPLE HAZARDS/ REMARKS	PRESERVATION	None
		*Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/LATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.	HOLDING TIME	30 Days
			TYPE OF CONTAINER	Summa Canister
			NO. OF CONTAINER(S)	1
			VOLUME	6L
SPECIAL HANDLING AND/OR STORAGE	N/A	SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	

SAMPLE NO.	FILTERED	MATRIX*	SAMPLE DATE	SAMPLE TIME
83Y6R9	N/A	GASEOUS	OCT 29 2020	0450

DATE/TIME	SIGN/ PRINT NAMES	DATE/TIME
OCT 29 2020 1030	Kathy Turner CHPRC	OCT 29 2020 1030

CHAIN OF POSSESSION	REINQUISHED BY/REMOVED FROM	DATE/TIME	SIGN/ PRINT NAMES	DATE/TIME	SPECIAL INSTRUCTIONS
Kathy Turner CHPRC		OCT 29 2020 1030			TRVL-21-003
Janelle Zunker CHPRC		OCT 29 2020 1415	Janelle Zunker CHPRC	OCT 29 2020 1415	(1) TO-15_VOA: COMMON {1,1,1-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, Acetone, Benzene, Carbon tetrachloride, Chloroform, Chloromethane, cis-1,2-Dichloroethylene, Dibromochloromethane, Methylene chloride, trans-1,2-Dichloroethylene, Trichloroethene, Vinyl chloride};

FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME
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PRINTED ON 10/14/2020

FSR ID = FSR99714

TRVL NUM = TRVL-21-003

A-6003-618 (REV 3)

January 20, 2021

CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F16-049-632	PAGE 1 OF 1
COLLECTOR	Kathy Turner CHPRC	COMPANY CONTACT	SUMNER, LC	TELEPHONE NO.	376-3922
SAMPLING LOCATION	289-T, B1 GAC Unit, Bottom Sample Port	PROJECT DESIGNATION	200 West Pump & Treat - ETBs and BioTreatment VOC Sampling - Gaseous		
ICE CHEST NO.	N/A	FIELD LOGBOOK NO.	ACTUAL SAMPLE DEPTH	SAF NO.	PURCHASE ORDER/CHARGE CODE
		HNF-N-491-20	N/A	F16-049	304852
SHIPPED TO	RJ Lee Group, Inc./Center for Laboratory Sciences	OFFSITE PROPERTY NO.	BILL OF LADING/AIR BILL NO.	METHOD OF SHIPMENT	
		N/A	N/A	GOVERNMENT VEHICLE	
MATRIX*	A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Sediment SE=Settlement T=Tissue V=Vegetation W=Water WI=Wipe X=Other	PRESERVATION	None	506 # 2116 2010135	
POSSIBLE SAMPLE HAZARDS/REMARKS	*Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR/IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.				
		HOLDING TIME	30 Days		
		TYPE OF CONTAINER	Summa Canister		
		NO. OF CONTAINER(S)	1		
		VOLUME	6L		
SPECIAL HANDLING AND/OR STORAGE	N/A	SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS		
SAMPLE NO.	FILTERED	MATRIX*	SAMPLE DATE	SAMPLE TIME	
23Y6R6	N/A	GASEOUS	OCT 29 2020	0957	✓

CHAIN OF POSSESSION		SIGN/PRINT NAMES		SPECIAL INSTRUCTIONS	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	TRVL-21-003	
Kathy Turner CHPRC	OCT 29 2020 1030	Janelle Zunker CHPRC	OCT 29 2020 1030	(1) TO-15_VOA: COMMON {1,1,1-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, Acetone, Benzene, Carbon tetrachloride, Chloroform, Chloromethane, cis-1,2-Dichloroethylene, Dibromochloromethane, Methylene chloride, trans-1,2-Dichloroethylene, Trichloroethane, Vinyl chloride};	
Janelle Zunker CHPRC	OCT 29 2020 1415	Air Transport Spin Usbecky DAC	10/29/2020 1415		
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY			
		DATE/TIME			

RJLG20C0135

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FSR ID = FSR99711

TRVL NUM = TRVL-21-003

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January 20, 2021

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CH2MHill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				W610290	F16-049-633	PAGE 1 OF 1
COLLECTOR	Kathy Turner CHPRC	COMPANY CONTACT	SUMNER, LC	TELEPHONE NO.	3/6-3922	PROJECT COORDINATOR	SUMNER, LC	REQUIRED TAT 15 Days
SAMPLING LOCATION	289-T, B2 GAC Unit, Bottom Sample Port	PROJECT DESIGNATION	200 West Pump & Treat - ETBs and BioTreatment VOC Sampling - Gaseous			SAFE NO.	F16-049	ORIGINAL METHOD OF SHIPMENT GOVERNMENT VEHICLE
ICE CHEST NO.	N/A	FIELD LOGBOOK NO.	HNF-N-491-20	ACTUAL SAMPLE DEPTH	N/A	PURCHASE ORDER/CHARGE CODE	304852	
SHIPPED TO	RJ Lee Group, Inc./Center for Laboratory Sciences	OFFSITE PROPERTY NO.	N/A	BILL OF LADING/AIR BILL NO.	N/A			
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	POSSIBLE SAMPLE HAZARDS/ REMARKS	*Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/ATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.			PRESERVATION	None	SD 64 E) V620 (D) 135
SPECIAL HANDLING AND/OR STORAGE	N/A	HOLDING TIME	30 Days	TYPE OF CONTAINER	Summa Canister	NO. OF CONTAINER(S)	1	SEE ITEM (1) IN SPECIAL INSTRUCTIONS
		VOLUME	6L	SAMPLE ANALYSIS				
		SAMPLE DATE	OCT 29 2020	SAMPLE TIME	1000			
		SAMPLE NO.	83YGR7	FILTERED	N/A	MATRIX*	GASEOUS	

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RJLG20C0135

CHAIN OF POSSESSION		RELINQUISHED BY/REMOVED FROM		DATE/TIME	SIGN/ PRINT NAMES	RECEIVED BY/STORED IN	DATE/TIME	SPECIAL INSTRUCTIONS
Kathy Turner CHPRC		Kathy Turner CHPRC		OCT 29 2020 1030	Janelle Zunker CHPRC	Janelle Zunker CHPRC	OCT 29 2020 1030	TRVL-21-003 (1) TO-15_VOA: COMMON {1,1,1-Trichloroethane, 1,1-Dichloroethane, 1,2-Dichloroethane, Acetone, Benzene, Carbon tetrachloride, Chloroform, Chloromethane, cis-1,2-Dichloroethylene, Dibromochloromethane, Methylene chloride, trans-1,2-Dichloroethylene, Trichloroethene, Vinyl chloride};
Janelle Zunker CHPRC		Janelle Zunker CHPRC		OCT 29 2020 1415	Janelle Zunker CHPRC	Janelle Zunker CHPRC	OCT 29 2020 1415	
FINAL SAMPLE DISPOSITION		DISPOSAL METHOD		DISPOSED BY				
DATE/TIME								

PRINTED ON 10/14/2020

FSR ID = FSR99712

TRVL NUM = TRVL-21-003

A-6003-618 (REV 3)

W010290

RJ Lee Group Inc

Client: CH2M Hill Plateau Remediation Company - C01282F

Project: TO-15

COC #: F16-049

PO #: 304852

Project Manager: L. Joe Sears

Project Number: 74392

SDG Number: RJLG20C0135

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:

Date Due: 11/19/2020 (15 day TAT)

Received By: Erin Leseberg

Date Received: 10/29/20 14:15

Logged In By: Erin Leseberg

Date Logged In: 10/29/20 15:57

Samples Received at: 18°C

Custody Seals No

Containers Intact Yes

COC/Labels Agree Yes

Preservation Confirmed No

Received On Ice No

RJLG ID	Sample Name	Analysis	Matrix	Date Sampled	TAT	Date Due
W010290-01	B3Y6T6 F16-049-642	TO-15	Air/Emission No Vol	10/29/20 09:13	15	11/19/2020
W010290-02	B3Y6T7 F16-049-643	TO-15	Air/Emission No Vol	10/29/20 09:18	15	11/19/2020
W010290-03	B3Y6T5 F16-049-641	TO-15	Air/Emission No Vol	10/29/20 09:21	15	11/19/2020
W010290-04	B3Y6T3 F16-049-639	TO-15	Air/Emission No Vol	10/29/20 09:26	15	11/19/2020
W010290-05	B3Y6T4 F16-049-640	TO-15	Air/Emission No Vol	10/29/20 09:30	15	11/19/2020
W010290-06	B3Y6T2 F16-049-638	TO-15	Air/Emission No Vol	10/29/20 09:33	15	11/19/2020
W010290-07	B3Y6T0 F16-049-636	TO-15	Air/Emission No Vol	10/29/20 09:40	15	11/19/2020
W010290-08	B3Y6T1 F16-049-637	TO-15	Air/Emission No Vol	10/29/20 09:44	15	11/19/2020
W010290-09	B3Y6R9 F16-049-635	TO-15	Air/Emission No Vol	10/29/20 09:50	15	11/19/2020
W010290-10	B3Y6R6 F16-049-632	TO-15	Air/Emission No Vol	10/29/20 09:57	15	11/19/2020
W010290-11	B3Y6R7 F16-049-633	TO-15	Air/Emission No Vol	10/29/20 10:00	15	11/19/2020

W010290

RJ Lee Group Inc

Client: CH2M Hill Plateau Remediation Company - C01282F

Project: TO-15

COC #: F16-049

PO #: 304852

Project Manager: L. Joe Sears

Project Number: 74392

SDG Number: RJLG20C0135

RJLG ID	Sample Name	Analysis	Matrix	Date Sampled	TAT	Date Due
W010290-12	B3Y6R8	TO-15	Air/Emission No Vol	10/29/20 10:09	15	11/19/2020
	F16-049-634					