



January 26, 2021

Mr. Scot Fitzgerald
Central Plateau Cleanup Company
MSIN R3-50
PO Box 1600
Richland, Washington 99352

Re: SAF S21-001
Work Order: 532182
SDG: GEL532182

Dear Mr. Fitzgerald:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on January 15, 2021. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4505.

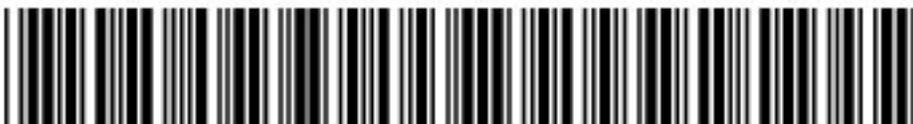
Sincerely,

Clare Drennen for
Heather Shaffer
Project Manager

Purchase Order: 300071 - 7H

Chain of Custody: S21-001-146, S21-001-147, S21-001-148, S21-001-149, S21-001-150, S21-001-151,
S21-001-152, S21-001-153, S21-001-154, S21-001-155, S21-001-156, S21-001-157, S21-001-158,
S21-001-159, S21-001-160, S21-001-161, S21-001-164, S21-001-165, S21-001-166, S21-001-167,
S21-001-168, S21-001-169, S21-001-170, S21-001-171, S21-001-172, S21-001-173, S21-001-174, S21-001-335
and S21-001-336

Enclosures



SAMPLE ISSUE RESOLUTION (SIR) REPORT		SIR Number: SIR21-0146 Rev. Number: 0 Date Initiated: 01/20/2021
<u>SAMPLE EVENT INFORMATION</u>		
SAF NUM(S):	S21-001	
LABORATORY:	GEL	
<u>SAMPLING INFORMATION</u>		
NUMBER OF SAMPLES:	1	
SAMPLE NUMBERS:	B3YTV9	
SAMPLE MATRIX:	WATER	
SDG NUM(S):	GEL532182	
<u>ISSUE BACKGROUND</u>		
CLASS:	Chain of Custody Issue (Field)	
TYPE:	Sample Date/time is missing/incorrect/illegible	
DESCRIPTION:	Upon chain of custody data entry for SDG GEL532182, the following issue was found: COC S21-001-336, Sample #B3YTV9, the "Sample Time" is illegible.	
<u>RESOLUTION</u>		
PROPOSED RESOLUTION:	The sample time has been determined to be: 0854. Document and close.	
FINAL RESOLUTION:	Document and close.	
SUBMITTED BY:		
GIBSON, GG	01/20/2021	
ACCEPTED BY:		
HEY, BE	01/20/2021	

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Case Narrative

**General Narrative
for
Central Plateau Cleanup Company (74393)
SAF S21-001
SDG: GEL532182**

January 26, 2021

Laboratory Identification:

GEL Laboratories LLC
2040 Savage Road
Charleston, South Carolina 29407
(843) 556-8171

Summary

Sample receipt

The sample(s) arrived at GEL Laboratories, LLC, Charleston, South Carolina on January 15, 2021, for analysis. The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. The client confirmed the collection time for the following sample 532182020(B3YTV9).

Items of Note All efforts were made by the lab to meet any short hold times. Samples that were analyzed outside of the initial hold time but still within 2X hold time will be noted in the lab case narrative.

Sample Identification

The laboratory received the following samples:

Laboratory Identification	Sample Description
532182001	B3YND2
532182002	B3YND6
532182003	B3YNF5
532182004	B3YNJ6
532182005	B3YP87
532182006	B3YPB0
532182007	B3YNJ2
532182008	B3YNH8
532182009	B3YP83
532182010	B3YP95
532182011	B3YP96
532182012	B3YP84
532182013	B3YP73
532182014	B3YNP3
532182015	B3YNF1
532182016	B3YNH3
532182017	B3YNF9
532182018	B3YP74
532182019	B3YND8
532182020	B3YTV9
532182021	B3YTV8
532182022	B3YP93

532182023	B3YP89
532182024	B3YNJ5
532182025	B3YNJ4
532182026	B3YP85
532182027	B3YP86
532182028	B3YP98
532182029	B3YP99
532182030	B3YNF4
532182031	B3YNF3
532182032	B3YND1
532182033	B3YNC8
532182034	B3YP90
532182035	B3YP94
532182036	B3YNH2
532182037	B3YNH1

Case Narrative

Sample analyses were conducted using methodology as outlined in GEL Laboratories, LLC (GEL) Standard Operating Procedures. Any technical or administrative problems during analysis, data review, and reduction are contained in the analytical case narratives in the enclosed data package.

Data Package

The enclosed data package contains the following sections: General Narrative, Chain of Custody and Supporting Documentation, and data from the following fractions: General Chemistry and Metals.

We certify that this package is in compliance with the Analytical Laboratory Services for CH2M Hill Plateau Remediation Company Statement of Work, both technically and for completeness, including a full description of, explanation of, and corrective actions for, any and all deviations, from either the analyses requested or the case narrative requested. Release of the data contained in this data package deliverable has been authorized by the Laboratory Analytical Manager (or designee) and the laboratory's client services representative as verified by their signatures on this report.



Clare Drennen for
Heather Shaffer
Project Manager

Technical Case Narrative
Central Plateau Cleanup Company
SDG #: GEL532182
Work Order #: 532182

Metals

Determination of Metals by ICP-MS

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

General Chemistry

Ion Chromatography

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Holding Times

Sample (See Below) was initially analyzed within holding; however, the holding time had expired prior to reanalysis of diluted sample. The data is qualified.

Sample	Analyte	Value
532182020 (B3YTV9)	Nitrate-N	Received 15-JAN-21, within holding, analyzed 15-JAN-21, out of holding 15-JAN-21

Samples (See Below) were analyzed outside of the method specified holding time. The analysis was performed as soon as possible by the analyst. The data is qualified.

Sample	Analyte	Value
1204733247 (Non SDG 532178002DUP)	Nitrate-N and Nitrite-N	Received 15-JAN-21, within holding, analyzed 15-JAN-21, out of holding 15-JAN-21
1204733248 (Non SDG 532178002PS)	Nitrate-N and Nitrite-N	Received 15-JAN-21, within holding, analyzed 15-JAN-21, out of holding 15-JAN-21

Sample Dilutions

The following samples 1204733247 (Non SDG 532178002DUP), 1204733248 (Non SDG 532178002PS), 532182019 (B3YND8), 532182020 (B3YTV9) and 532182021 (B3YTV8) were diluted because target analyte concentrations exceeded the calibration range.

Analyte	532182		
	019	020	021
Chloride	20X	20X	10X
Nitrate-N	1X	20X	1X
Sulfate	20X	20X	10X

Hexavalent Chromium

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Holding Times

Samples (See Below) were received by the laboratory outside of the method specified holding time. The data is qualified.

Sample	Analyte	Value
1204733237 (B3YND2DUP)		Received 15-JAN-21, out of holding 14-JAN-21
1204733238 (B3YND2PS)		Received 15-JAN-21, out of holding 14-JAN-21
1204733239 (B3YND6DUP)		Received 15-JAN-21, out of holding 14-JAN-21
1204733240 (B3YND6PS)		Received 15-JAN-21, out of holding 14-JAN-21
532182001 (B3YND2)		Received 15-JAN-21, out of holding 14-JAN-21
532182002 (B3YND6)		Received 15-JAN-21, out of holding 14-JAN-21
532182003 (B3YNF5)		Received 15-JAN-21, out of holding 14-JAN-21
532182004 (B3YNJ6)		Received 15-JAN-21, out of holding 14-JAN-21
532182005 (B3YP87)		Received 15-JAN-21, out of holding 14-JAN-21
532182006 (B3YPB0)		Received 15-JAN-21, out of holding 14-JAN-21
532182007 (B3YNJ2)		Received 15-JAN-21, out of holding 14-JAN-21
532182008 (B3YNH8)		Received 15-JAN-21, out of holding 14-JAN-21
532182009 (B3YP83)		Received 15-JAN-21, out of holding 14-JAN-21
532182010 (B3YP95)		Received 15-JAN-21, out of holding 14-JAN-21
532182011 (B3YP96)		Received 15-JAN-21, out of holding 14-JAN-21
532182012 (B3YP84)		Received 15-JAN-21, out of holding 14-JAN-21
532182013 (B3YP73)		Received 15-JAN-21, out of holding 14-JAN-21
532182014 (B3YNP3)		Received 15-JAN-21, out of holding 14-JAN-21
532182015 (B3YNF1)		Received 15-JAN-21, out of holding 14-JAN-21
532182016 (B3YNH3)		Received 15-JAN-21, out of holding 14-JAN-21
532182017 (B3YNF9)		Received 15-JAN-21, out of holding 14-JAN-21
532182018 (B3YP74)		Received 15-JAN-21, out of holding 14-JAN-21

Sample Re-analysis

Samples 532182015 (B3YNF1) and 532182018 (B3YP74) were re-analyzed due to instrument failure. The results from the reanalysis are reported.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Chain of Custody and Supporting Documentation

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

CH2M Hill Plateau Remediation Company		C.O.C.# S21-001-147 Page 1 of 1	
Collector: Juan Aguilar CHPRC	Contact/Requester: Karen Waters-Husted	Telephone No.: 509-376-4650	532182
SAF No.: S21-001	Sampling Origin: Hanford Site	Purchase Order/Charge Code: 300071	
Project Title: SURV, JANUARY 2021	Logbook No.: HNF-N-506-120115	Ice Chest No.: GWS-247	
Shipped To (Lab): GEL Laboratories, LLC	Method of Shipment: Commercial Carrier	Bill of Lading/Air Bill No.: 772618711437	
Protocol: SURV	Priority: 30 Days	Offsite Property No.: N/A	
POSSIBLE SAMPLE HAZARDS/REMARK ** ** 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		SPECIAL INSTRUCTIONS N/A	
Sample No. B3YND2	Filter <input checked="" type="checkbox"/> Y	Date JAN 13 2021 1007	No/Type Container 1x60-mL ag
		Time 7196_CR6: COMMON	Sample Analysis
		Holding Time 24 Hours	Preservative Cool <=6C

Relinquished By		Received By	
Print First and Last Name	Signature	Print First and Last Name	Signature
Juan Aguilar CHPRC		Janelle Zunker CHPRC	
	JAN 13 2021 1100		JAN 13 2021 1100
Janelle Zunker CHPRC		Stacy Boone GEL Laboratories	
	JAN 13 2021 1400		JAN 15 2021 930
	FED EX		FED EX
		Matrix * S = Soil DS = Drum Solids SE = Sediment DL = Drum Liquids SO = Solid T = Tissue SL = Sludge WI = Wipe W = Water L = Liquid O = Oil V = Vegetation A = Air X = Other	
FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process):		Disposed By:	
Printed On 12/14/2020		Date/Time:	

FSR ID = FSR101333

A-6004-842 (REV 4)

CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		C.O.C.# S21-001-148
Collector: Juan Aguilar CHPRC	Contact/Requester: Karen Waters-Husted	Telephone No.: 509-376-4650	Page 1 of 1	
SAF No.: S21-001	Sampling Origin: Hanford Site	Purchase Order/Charge Code: 300071		
Project Title: SURV, JANUARY 2021	Logbook No.: HNF-N-506 -120 JIS	Ice Chest No.: GWS-247		
Shipped To (Lab): GEL Laboratories, LLC	Method of Shipment: Commercial Carrier	Bill of Lading/Air Bill No.: 7726 1871 1437		
Protocol: SURV	Priority: 30 Days	Offsite Property No.: N/A		
POSSIBLE SAMPLE HAZARDS/REMARK ** ** 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		SPECIAL INSTRUCTIONS N/A		
Sample No. B3YND6	Filter <input checked="" type="checkbox"/> Y	Date W JAN 13 2021	Time 1015	No/Type Container 1x60-mL aG
		Sample Analysis		
		Holding Time 24 Hours	Preservative Cool <=6C	

Relinquished By		Received By	
Print First and Last Name	Signature	Print First and Last Name	Signature
Juan Aguilar CHPRC		Janelle Zunker CHPRC	
Date: JAN 13 2021	Time: 1100	Date: JAN 13 2021	Time: 1140
Janelle Zunker CHPRC		Jancy Boone GEL Laboratories	
Signature:		Signature:	
Date: JAN 13 2021		Date: JAN 15 2021	
Time: 1410		Time: 930	
Carrier: FEDEX		Carrier: FEDEX	
Disposal Method (e.g., Return to customer, per lab procedure, used in process):		Disposed By:	
FINAL SAMPLE DISPOSITION		Date/Time:	

CH2M Hill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C.# S21-001-152

Collector: Juan Aguilar CHPRC
 SAF No.: S21-001
 Project Title: SURV, JANUARY 2021
 Shipped To (Lab): GEL Laboratories, LLC
 Protocol: SURV

Contact/Requester: Karen Waters-Husted
 Sampling Origin: Hanford Site
 Logbook No.: HNF-N-506 -120115
 Method of Shipment: Commercial Carrier
 Priority: 30 Days

Telephone No.: 509-376-4650
 Purchase Order/Charge Code: 300071
 Ice Chest No.: GWS-247
 Bill of Lading/Air Bill No.: 7226 1871 1437
 Offsite Property No.: N/A

POSSIBLE SAMPLE HAZARDS/REMARK
 *** 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

SPECIAL INSTRUCTIONS
 N/A

Sample No. B3YNF5
 Filter * Y
 Date JAN 13 2021
 Time 0924
 No/Type Container 1x60-mL aG
 Sample Analysis 7196_CR6: COMMON
 Holding Time 24 Hours
 Preservative Cool <=6C

Relinquished By	Received By
Print First and Last Name: Juan Aguilar Signature: [Signature] Date/Time: JAN 13 2021 Title: CHPRC	Print First and Last Name: Janelle Zunker Signature: [Signature] Date/Time: JAN 13 2021 Title: CHPRC
Print First and Last Name: Janelle Zunker Signature: [Signature] Date/Time: JAN 13 2021 Title: CHPRC	Print First and Last Name: Stacy Boone Signature: [Signature] Date/Time: JAN 15 2021 Title: GEL Laboratories
Disposal Method (e.g., Return to customer, per lab procedure, used in process): Disposed By:	
Date/Time:	

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

CH2MHill Plateau
Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C.#
S21-001-159

Page 1 of 1

Collector: Juan Aguilar
CHPRC

SAF No.: S21-001

Project Title: SURV, JANUARY 2021

Shipped To (Lab): GEL Laboratories, LLC

Protocol: SURV

Contact/Requester: Karen Waters-Husted

Sampling Origin: Hanford Site

Logbook No.: HNF-N-506 - 120115

Method of Shipment: Commercial Carrier

Priority: 30 Days

Telephone No.: 509-376-4650

Purchase Order/Charge Code: 300071

Ice Chest No.: GWS-247

Bill of Lading/Air Bill No.: 7726 1871 1437

Offsite Property No.: N/A

SPECIAL INSTRUCTIONS

N/A

POSSIBLE SAMPLE HAZARDS/REMARK

** ** 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

Sample No. B3YNU6

Filter * Y

Date JAN 13 2021

Time 0934

No/Type Container 1x60-mL aG

Sample Analysis 7196_CR6: COMMON

Holding Time 24 Hours

Preservative Cool <=6C

Relinquished By		Received By	
Print First and Last Name	Signature	Print First and Last Name	Signature
Juan Aguilar CHPRC		Janelle Zunker CHPRC	
JAN 13 2021 1100	JAN 13 2021 1100	JAN 13 2021 1100	JAN 13 2021 1100
JAN 13 2021 1400	JAN 13 2021 1400	Stacy Boone GEL Laboratories	FEDEX
	FED EX	FEDEX	JAN 15 2021 930
Disposal Method (e.g., Return to customer, per lab procedure, used in process):		Disposed By:	
Printed On 12/14/2020		Date/Time:	

Matrix *

S = Soil DS = Drum Solids

SE = Sediment DL = Drum Liquids

SO = Solid T = Tissue

SL = Sludge WI = Wipe

W = Water L = Liquid

O = Oil V = Vegetation

A = Air X = Other

FSR ID = FSR101340

A-6004-842 (REV 4)

CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		C.O.C.# S21-001-166
Collector: Juan Aguilar CHPRC		Telephone No.: 509-376-4650		Page 1 of 1
SAF No.: S21-001		Purchase Order/Charge Code: 300071		
Project Title: SURV, JANUARY 2021		Ice Chest No.: GWS-247		
Shipped To (Lab): GEL Laboratories, LLC		Bill of Lading/Air Bill No.: 772618711437		
Protocol: SURV		Offsite Property No.: N/A		
POSSIBLE SAMPLE HAZARDS/REMARK ** ** 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		SPECIAL INSTRUCTIONS N/A		
Sample No. B3YP87	Filter <input checked="" type="checkbox"/> Y	Date JAN 13 2021	No/Type Container 1x60-mL aG	7196_CR6: COMMON
		Sample Analysis		Holding Time 24 Hours
				Preservative Cool <=6C

Relinquished By		Received By	
Print First and Last Name Juan Aguilar CHPRC	Signature 	Print First and Last Name Janelle Zunker CHPRC	Signature
Date JAN 13 2021	Date/Time NOV 11 00	Date JAN 13 2021	Date/Time 11 00
FED EX		FEDEX	
Stacy Boone GEL Laboratories		JAN 15 2021 9 30	
Disposal Method (e.g., Return to customer, per lab procedure, used in process):		Disposed By:	
FINAL SAMPLE DISPOSITION		Date/Time:	

CH2M Hill Plateau Remediation Company		C.O.C.# S21-001-156 Page 1 of 1	
CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			
Collector: Juan Aguilar CHPRC	Contact/Requester: Karen Waters-Husted	Telephone No.: 509-376-4650	
SAF No.: S21-001	Sampling Origin: Hanford Site	Purchase Order/Charge Code: 300071	
Project Title: SURV, JANUARY 2021	Logbook No.: HNF-N-506 -120114	Ice Chest No.: GWS-247	
Shipped To (Lab): GEL Laboratories, LLC	Method of Shipment: Commercial Carrier	Bill of Lading/Air Bill No.: 7726 1871 1437	
Protocol: SURV	Priority: 30 Days	Offsite Property No.: N/A	
POSSIBLE SAMPLE HAZARDS/REMARK *** ** 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		SPECIAL INSTRUCTIONS N/A	
Sample No. B3YNH8	Filter <input checked="" type="checkbox"/> Y	Date: JAN 13 2021	Time: 10:40
No/Type Container: 1x60-mL aG	Sample Analysis: 7196_CR6: COMMON		Holding Time: 24 Hours
		Preservative: Cool <=6C	

Relinquished By		Received By	
Print First and Last Name Juan Aguilar CHPRC	Signature 	Print First and Last Name Janelle Zunker CHPRC	Signature
Date JAN 13 2021	Date/Time 1100	Date JAN 13 2021	Date/Time 1100
FED EX		FED EX	
JAN 13 2021 1400		JAN 15 2021 930	
Janelle Zunker CHPRC		Stacy Boone GEL Laboratories	
Disposal Method (e.g., Return to customer, per lab procedure, used in process):		Disposed By:	
Date/Time:		Date/Time:	

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		C.O.C.# S21-001-164
		Page 1 of 1
532182		
Collector: Juan Aguilar CHPRC	Contact/Requester: Karen Waters-Husted	Telephone No.: 509-376-4650
SAF No.: S21-001	Sampling Origin: Hanford Site	Purchase Order/Charge Code: 300071
Project Title: SURV, JANUARY 2021	Logbook No.: HNF-N-506 ~120114	Ice Chest No.: GWS-247
Shipped To (Lab): GEL Laboratories, LLC	Method of Shipment: Commercial Carrier	Bill of Lading/Air Bill No.: 77261871 1437
Protocol: SURV	Priority: 30 Days	Offsite Property No.: N/A
POSSIBLE SAMPLE HAZARDS/REMARK ** ** 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		
SPECIAL INSTRUCTIONS N/A		
Sample No. B3YP83	Filter <input checked="" type="checkbox"/>	Time JAN 13 2021 0832
No/Type Container	1x60-mL aG 7196_CR6: COMMON	
Sample Analysis		Holding Time 24 Hours
		Preservative Cool <=6C

Relinquished By	Received By	Matrix *
Print First and Last Name: Juan Aguilar Signature: <i>[Signature]</i> Date/Time: JAN 13 2021 1100	Print First and Last Name: Janelle Zunker Signature: <i>[Signature]</i> Date/Time: JAN 13 2021 1100 Carrier: FEDEX	S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air DS = Drum Solids DL = Drum Liquids T = Tissue WI = Wipe L = Liquid V = Vegetation X = Other
Print First and Last Name: Janelle Zunker Signature: <i>[Signature]</i> Date/Time: JAN 13 2021 1100 Carrier: FEDEX	Print First and Last Name: Stacy Boone Signature: <i>[Signature]</i> Date/Time: JAN 15 2021 930 Carrier: GEL Laboratories	
FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process):		Disposed By: _____ Date/Time: _____

CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		C.O.C.# S21-001-168 Page 1 of 1		
Collector: Juan Aguilar CHPRC	Contact/Requester: Karen Waters-Husted	Telephone No.: 509-376-4650				
SAF No.: S21-001	Sampling Origin: Hanford Site	Purchase Order/Charge Code: 300071				
Project Title: SURV, JANUARY 2021	Logbook No.: HNF-N-506-120114	Ice Chest No.: GWS-247				
Shipped To (Lab): GEL Laboratories, LLC	Method of Shipment: Commercial Carrier	Bill of Lading/Air Bill No.: 772618711437				
Protocol: SURV	Priority: 30 Days	Offsite Property No.: N/A				
POSSIBLE SAMPLE HAZARDS/REMARK *** 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						
SPECIAL INSTRUCTIONS N/A						
Sample No. B3YP95	Filter <input checked="" type="checkbox"/> Y	Date JAN 13 2021 0820	No/Type Container 1x60 -mL aG	Sample Analysis 7196_CR6: COMMON	Holding Time 24 Hours	Preservative Cool <=6C

Relinquished By		Received By	
Print First and Last Name	Signature	Print First and Last Name	Signature
Juan Aguilar CHPRC	<i>[Signature]</i>	Janelle Zunker CHPRC	<i>[Signature]</i>
Date/Time JAN 13 2021 1100	Date/Time JAN 13 2021 1100	Date/Time JAN 13 2021 1100	Date/Time JAN 13 2021 1100
Janelle Zunker CHPRC	<i>[Signature]</i>	Stacy Boone GEL Laboratories	<i>[Signature]</i>
Date/Time JAN 13 2021 0820	Date/Time JAN 13 2021 0820	Date/Time JAN 15 2021 930	Date/Time JAN 15 2021 930
FED EX	FED EX	FEDEX	FEDEX
Disposal Method (e.g., Return to customer, per lab procedure, used in process):		Disposed By:	
Date/Time:		Date/Time:	

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		C.O.C.# S21-001-170
		Page 1 of 1
Collector: Juan Aguilar CHPRC	Contact/Requester: Karen Waters-Husted	Telephone No.: 509-376-4650
SAF No.: S21-001	Sampling Origin: Hanford Site	Purchase Order/Charge Code: 300071
Project Title: SURV, JANUARY 2021	Logbook No.: HNF-N-506-120114	Ice Chest No.: GWS-247
Shipped To (Lab): GEL Laboratories, LLC	Method of Shipment: Commercial Carrier	Bill of Lading/Air Bill No.: 77261871437
Protocol: SURV	Priority: 30 Days	Offsite Property No.: N/A
POSSIBLE SAMPLE HAZARDS/REMARK ** ** 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		
Sample No.: B3YP96	Filter: Y	Date: JAN 13 2021
Time: 0820	No/Type Container: 1x60-mL aG	7196_CR6: COMMON
Sample Analysis		Holding Time: 24 Hours
Preservative:		Cool <=6C

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		C.O.C.# S21-001-170
		Page 1 of 1
Collector: Juan Aguilar CHPRC	Contact/Requester: Karen Waters-Husted	Telephone No.: 509-376-4650
SAF No.: S21-001	Sampling Origin: Hanford Site	Purchase Order/Charge Code: 300071
Project Title: SURV, JANUARY 2021	Logbook No.: HNF-N-506-120114	Ice Chest No.: GWS-247
Shipped To (Lab): GEL Laboratories, LLC	Method of Shipment: Commercial Carrier	Bill of Lading/Air Bill No.: 77261871437
Protocol: SURV	Priority: 30 Days	Offsite Property No.: N/A
POSSIBLE SAMPLE HAZARDS/REMARK ** ** 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		
Sample No.: B3YP96	Filter: Y	Date: JAN 13 2021
Time: 0820	No/Type Container: 1x60-mL aG	7196_CR6: COMMON
Sample Analysis		Holding Time: 24 Hours
Preservative:		Cool <=6C

Relinquished By	Received By	Matrix *
Print First and Last Name Juan Aguilar CHPRC	Print First and Last Name Janelle Zunker CHPRC	S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air
Signature 	Signature 	DS = Drum Solids DL = Drum Liquids T = Tissue WI = Wipe L = Liquid V = Vegetation X = Other
Date/Time JAN 13 2021 1100	Date/Time JAN 13 2021 1100	
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Date/Time JAN 13 2021 1400	Date/Time JAN 15 2021 930	
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Date/Time JAN 13 2021 1400	Date/Time JAN 15 2021 930	

CH2M Hill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C.# S21-001-173

Page 1 of 1

532182
 Telephone No.: 509-376-4650
 Purchase Order/Charge Code: 300071
 Ice Chest No.: GWS-247
 Bill of Lading/Air Bill No.: 77261871 1437
 Offsite Property No.: N/A

Contact/Requester: Karen Waters-Husted
 Sampling Origin: Hanford Site
 Logbook No.: HNF-N-506 - 13-2021
 Method of Shipment: Commercial Carrier
 Priority: 30 Days

Collector: Juan Aguilar
 SAF No.: S21-001
 Project Title: SURV, JANUARY 2021
 Shipped To (Lab): GEL Laboratories, LLC
 Protocol: SURV

SPECIAL INSTRUCTIONS
 N/A

POSSIBLE SAMPLE HAZARDS/REMARK
 ** ** 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

Sample No.	Filter	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B3YPB4	<input checked="" type="checkbox"/>	W JAN 13 2021	0754	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C

Relinquished By		Received By	
Print First and Last Name	Signature	Print First and Last Name	Signature
Juan Aguilar CHPRC		Janelia Zunker CHPRC	
JAN 13 2021 1100	JAN 13 2021 1400	JAN 13 2021 1100	JAN 13 2021 1100
JAN 13 2021 1400	JAN 13 2021 1400	JAN 15 2021 930	JAN 15 2021 930
FED EX	FED EX	Stacy Boone GEL Laboratories	FEDEX
Disposal Method (e.g., Return to customer, per lab procedure, used in process):		Disposed By:	
Printed On 12/14/2020		Date/Time:	

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

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		C.O.C.# S21-001-160
		Page 1 of 1
532182		
Collector: Juan Aguilar CHPRC	Contact/Requester: Karen Waters-Husted	Telephone No.: 509-376-4650
SAF No.: S21-001	Sampling Origin: Hanford Site	Purchase Order/Charge Code: 300071
Project Title: SURV, JANUARY 2021	Logbook No.: HNF-N-506 - 120114	Ice Chest No.: GWS-247
Shipped To (Lab): GEL Laboratories, LLC	Method of Shipment: Commercial Carrier	Bill of Lading/Air Bill No.: 7726 1871 1437
Protocol: SURV	Priority: 30 Days	Offsite Property No.: N/A
POSSIBLE SAMPLE HAZARDS/REMARK ** ** 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		
SPECIAL INSTRUCTIONS N/A		
Sample No.: B3YP73	Filter: <input checked="" type="checkbox"/>	Time: 09:15
Date: JAN 13 2021	No/Type Container: 1x60-mL aG	Sample Analysis: 7196_CR6: COMMON
Holding Time: 24 Hours		Preservative: Cool <=6C

Relinquished By		Received By	
Print First and Last Name Juan Aguilar CHPRC	Signature 	Print First and Last Name Janella Zunker CHPRC	Signature
Date/Time JAN 13 2021 1100	Date/Time JAN 13 2021 1100	Date/Time JAN 13 2021 1100	
Signature 	Signature 	Date/Time JAN 15 2021 930	
FED EX		FED EX	
Stacy Boone GEL Laboratories		Stacy Boone GEL Laboratories	
Disposal Method (e.g., Return to customer, per lab procedure, used in process):		Disposed By:	
FINAL SAMPLE DISPOSITION		Date/Time:	

CH2MHill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST 532182				C.O.C.# S21-001-174 Page 1 of 1
Collector: Juan Aguilar CHPRC	SAF No.: S21-001	Contact/Requester: Karen Waters-Husted	Telephone No.: 509-376-4650			
Project Title: SURV, JANUARY 2021	Shipped To (Lab): GEL Laboratories, LLC	Sampling Origin: Hanford Site	Purchase Order/Charge Code: 300071			
Protocol: SURV	Method of Shipment: Commercial Carrier	Logbook No.: HNF-N-506 -120/13/14 175-2021	Ice Chest No.: GWS-247			
POSSIBLE SAMPLE HAZARDS/REMARK *** 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		Priority: 30 Days	Bill of Lading/Air Bill No.: 772618711437			
		SPECIAL INSTRUCTIONS N/A				
Sample No. B3YNP3	Filter Y	Date JAN 13 2021	Time 0805	No/Type Container 1x60-mL aG	7196_CR6: COMMON	Sample Analysis
					Holding Time 24 Hours	Preservative Cool <=6C

Relinquished By		Received By	
Print First and Last Name	Signature	Print First and Last Name	Signature
Juan Aguilar CHPRC		Janelle Zunker GELPRC	
Date JAN 13 2021	Date/Time 1100	Date/Time JAN 13 2021	Date/Time 1100
Janelle Zunker CHPRC		Stacy Boone GEL Laboratories	
Date JAN 13 2021	Date/Time 1400	Date/Time JAN 15 2021	Date/Time 930
FED EX		FEDEX	
Disposal Method (e.g., Return to customer, per lab procedure, used in process):		Disposed By:	
Printed On 12/14/2020		Date/Time:	

FSR ID = FSR101345

A-6004-842 (REV 4)

CH2MHill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		C.O.C.# S21-001-150
Collector: Juan Aguilar CHPRC		Contact/Requester: Karen Waters-Husted		Page 1 of 1
SAF No.: S21-001		Telephone No.: 509-376-4650		
Project Title: SURV, JANUARY 2021		Purchase Order/Charge Code: 300071		
Shipped To (Lab): GEL Laboratories, LLC		Ice Chest No.: GWS-247		
Protocol: SURV		Bill of Lading/Air Bill No.: 772618711437		
Priority: 30 Days		Offsite Property No.: N/A		
POSSIBLE SAMPLE HAZARDS/REMARK *** ** 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		SPECIAL INSTRUCTIONS N/A		
Sample No. B3YNF1	Filter Y	Date JAN 13 2021	Time 1024	No/Type Container 1x60-mL aG
Sample Analysis		Holding Time 24 Hours		Preservative Cool <=6C

Relinquished By		Received By	
Print First and Last Name Juan Aguilar CHPRC	Signature 	Print First and Last Name Janelia Zunker CHPRC	Signature
Date JAN 13 2021	Date/Time 1100	Date JAN 13 2021	Date/Time 1100
FED EX		FED EX	
Stacy Boone GEL Laboratories		JAN 15 2021 930	
Disposal Method (e.g., Return to customer, per lab procedure, used in process):		Disposed By:	
Printed On 12/14/2020		Date/Time:	

FSR ID = FSR101335

A-6004-842 (REV 4)

CH2MHill Plateau
Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C.#
S21-001-153

Collector: Juan Aguilar CHPRC
 SAF No.: S21-001
 Project Title: SURV, JANUARY 2021
 Shipped To (Lab): GEL Laboratories, LLC
 Protocol: SURV

Contact/Requester: Karen Waters-Husted
 Telephone No.: 509-376-4650
 Sampling Origin: Hanford Site
 Purchase Order/Charge Code: 300071
 Logbook No.: HNF-N-506 -120115
 Ice Chest No.: GWS-247
 Method of Shipment: Commercial Carrier
 Bill of Lading/Air Bill No.: 722618711437
 Priority: 30 Days
 Offsite Property No.: N/A

SPECIAL INSTRUCTIONS

N/A
 *** 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

Sample No. B3YNF9
 Filter Y
 Date JAN 13 2021
 Time 10:42
 No/Type Container 1x60-mL ag
 Sample Analysis 7196_CR6: COMMON
 Holding Time 24 Hours
 Preservative Cool <=6C

Relinquished By		Received By	
Print First and Last Name	Signature	Print First and Last Name	Signature
Juan Aguilar CHPRC		Janelle Zunker CHPRC	
JAN 13 2021 1100		JAN 13 2021 1100	
JAN 13 2021 1400		JAN 13 2021 1100	
FED EX		FEDEX	
		Stacy Boone GEL Laboratories	
		JAN 15 2021	930
FINAL SAMPLE DISPOSITION		Disposal Method (e.g., Return to customer, per lab procedure, used in process):	
Printed On 12/14/2020		Disposed By:	
		Date/Time:	

FSR ID = FSR101337

A-6004-842 (REV 4)

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

CH2MHill Plateau Remediation Company Juan Aguiar CHPRC		C.O.C.# S21-001-336 Page 1 of 1	
Collector: SAF No.: Project Title: Shipped To (Lab): Protocol:	Juan Aguiar CHPRC S21-001 SURV, JANUARY 2021 GEL Laboratories, LLC SURV	Contact/Requester: Karen Waters-Husted Sampling Origin: Hanford Site Logbook No.: HNF-N-506 - 120114 Method of Shipment Commercial Carrier Priority: 30 Days	Telephone No.: 509-376-4650 Purchase Order/Charge Code: 300071 Ice Chest No.: GWS-247 Bill of Lading/Air Bill No.: 72618711437 Offsite Property No.: N/A
POSSIBLE SAMPLE HAZARDS/REMARK ** ** 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		SPECIAL INSTRUCTIONS N/A	
Sample No. B3YTV9 Filter N Date JAN 13 2021 Time 1454 No/Type Container 1x125-mL G/P	Sample Analysis 9056_ANIONS_IC: COMMON		Holding Time 48 Hours Preservative Cool <=6C

Relinquished By		Received By	
Print First and Last Name	Signature	Print First and Last Name	Signature
Juan Aguiar CHPRC		Janelia Zunke CHPRC	
Date: JAN 13 2021	Date/Time: 1100	Date/Time: JAN 13 2021 1100	
Janelia Zunke CHPRC		Stacy Boone GEL Laboratories	
Date: JAN 13 2021	Date/Time: 1400	Date/Time: JAN 15 2021 930	
	FED EX		
Disposal Method (e.g., Return to customer, per lab procedure, used in process):		Disposed By:	
Printed On 12/14/2020		Date/Time:	

FSR ID = FSR101344

A-6004-842 (REV 4)

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

CH2MHill Plateau
Remediation Company

C.O.C.#
S21-001-167

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532182

Telephone No.: 509-376-4650

Purchase Order/Charge Code: 300071

Ice Chest No.: GWS-271

Bill of Lading/Air Bill No.: 7794 1874532

Offsite Property No.: N/A

Contact/Requester: Karen Waters-Husted

Sampling Origin: Hanford Site

Logbook No.: HNF-N-506 - 120/14

Method of Shipment: Commercial Carrier

Priority: 30 Days

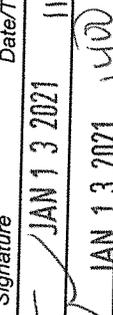
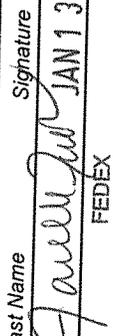
SPECIAL INSTRUCTIONS

N/A

POSSIBLE SAMPLE HAZARDS/REMARK

** ** 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

Sample No.	Filter	* Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B3YP93	Y	JAN 13 2021	0820	1x500-mL G/P	6020_METALS_ICPMS: Chromium (1)	6 Months	HNO3 to pH <2
B3YP89	N	JAN 13 2021	0820	1x500-mL G/P	6020_METALS_ICPMS: Chromium (1)	6 Months	HNO3 to pH <2

Relinquished By		Received By	
Print First and Last Name	Signature	Print First and Last Name	Signature
Juan Aguilar CHPRC		Janelle Zunker CHPRC	
	JAN 13 2021 1100		JAN 13 2021 1100
	JAN 13 2021 1400		JAN 15 2021 0930
	FED EX		FED EX
	Stacy Boohe GEL Laboratories		JAN 15 2021 0930
FINAL SAMPLE DISPOSITION		Disposal Method (e.g., Return to customer, per lab procedure, used in process):	
Printed On 12/14/2020		Disposed By:	
		Date/Time:	

FSR ID = FSR101343

A-6004-842 (REV 4)

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C.#
S21-001-158
Page 1 of 1

532182

Telephone No.: 509-376-4650
Purchase Order/Charge Code: 300071
Ice Chest No.: 6WS-271
Bill of Lading/Air Bill No.: 72401874532
Offsite Property No.: N/A

Contact/Requester: Karen Waters-Husted
Sampling Origin: Hanford Site
Logbook No.: HNF-N-506-125115
Method of Shipment: Commercial Carrier
Priority: 30 Days

SPECIAL INSTRUCTIONS
N/A

POSSIBLE SAMPLE HAZARDS/REMARK
*** ** 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

Sample No.	Filter	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B3YNJ5	Y	JAN 13 2021	0934	1x500-mL G/P	6020_METALS_ICPMS: Chromium (1)	6 Months	HNO3 to pH <2
B3YNJ4	N	JAN 13 2021	10934	1x500-mL G/P	6020_METALS_ICPMS: Chromium (1)	6 Months	HNO3 to pH <2

Relinquished By		Received By	
Print First and Last Name	Signature	Print First and Last Name	Signature
Juan Aguilera CHPRC		Janelle Zunker CHPRC	
Date: JAN 13 2021	Time: 1100	Date: JAN 13 2021	Time: 1100
Janelle Zunker CHPRC		FEDEX	
Date: JAN 13 2021	Time: 1400	Date: JAN 15 2021	Time: 930
Stacy Boone GEL Laboratories		JAN 15 2021	930

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

Disposal Method (e.g., Return to customer, per lab procedure, used in process):
Disposed By:
Date/Time:

Printed On: 12/14/2020
FSR ID = FSR101340
A-6004-842 (REV 4)

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

CH2Mhill Plateau Remediation Company		C.O.C.# S21-001-165 Page 1 of 1	
Collector: Juan Aguilar CHPRC	Contact/Requester: Karen Waters-Husted	Telephone No.: 509-376-4650	Purchase Order/Charge Code: 300071
SAF No.: S21-001	Sampling Origin: Hanford Site	Ice Chest No.: CWS271	Bill of Lading/Air Bill No.: 772418745321
Project Title: SURV, JANUARY 2021	Logbook No.: HNF-N-506-120114	Method of Shipment: Commercial Carrier	Offsite Property No.: N/A
Shipped To (Lab): GEL Laboratories, LLC	Priority: 30 Days	SPECIAL INSTRUCTIONS N/A	
Protocol: SURV	POSSIBLE SAMPLE HAZARDS/REMARK *** ** 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		

Sample No.	Filter	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B3YP85	N	W JAN 13 2021	0904	1x500-mL G/P	6020_METALS_ICPMS: Chromium (1)	6 Months	HNO3 to pH <2
B3YP86	Y	W JAN 13 2021	0904	1x500-mL G/P	6020_METALS_ICPMS: Chromium (1)	6 Months	HNO3 to pH <2

Relinquished By		Received By	
Print First and Last Name	Signature	Print First and Last Name	Signature
Juan Aguilar CHPRC		Janelle Zunkar CHPRC	
Janelle Zunkar CHPRC		FEDEX	
Stacy Boone GEL Laboratories		FEDEX	
		Stacy Boone GEL Laboratories	
		FEDEX	

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

Disposal Method (e.g., Return to customer, per lab procedure, used in process):	Disposed By:
Date/Time:	Date/Time:

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		C.O.C.# S21-001-146					
		Page 1 of 1					
<i>S2182</i>							
Contact/Requester: Karen Waters-Husted		Telephone No.: 509-376-4650					
Sampling Origin: Hanford Site		Purchase Order/Charge Code: 300071					
Logbook No.: HNF-N-506-120115		Ice Chest No.: <i>6WS 271</i>					
Method of Shipment: Commercial Carrier		Bill of Lading/Air Bill No.: <i>72401874532</i>					
Priority: 30 Days		Offsite Property No.: <i>N/A</i>					
SPECIAL INSTRUCTIONS							
N/A							
<p>POSSIBLE SAMPLE HAZARDS/REMARK</p> <p>*** 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</p>							
Sample No.	Filter	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B3YND1	Y	JAN 13 2021	1007	1x500-mL G/P	6020_METALS_ICPMS: Chromium (I)	6 Months	HNO3 to pH <2
B3YNC8	N	JAN 13 2021	1007	1x500-mL G/P	6020_METALS_ICPMS: Chromium (I)	6 Months	HNO3 to pH <2

Relinquished By		Received By	
Print First and Last Name Juan Aguilar CHPRC	Signature <i>[Signature]</i>	Print First and Last Name Janelle Zunker CHPRC	Signature <i>[Signature]</i>
Date/Time JAN 13 2021 1100	Date/Time JAN 13 2021 1100	Date/Time JAN 13 2021 1100	Date/Time JAN 13 2021 1100
Janelle Zunker CHPRC FED EX		Stacy Boone GEL Laboratories JAN 15 2021 930 FED EX	
Disposal Method (e.g., Return to customer, per lab procedure, used in process):		Disposed By:	
FINAL SAMPLE DISPOSITION		Date/Time:	

CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST <i>532182</i>		C.O.C.# S21-001-169 Page 1 of 1			
Collector: Juan Aguilar CHPRC	Contact/Requester: Karen Waters-Husted	Telephone No.: 509-376-4650	Purchase Order/Charge Code: 300071				
SAF No.: S21-001	Sampling Origin: Hanford Site	Logbook No.: HNF-N-506-12014	Ice Chest No.: GWS-271	Bill of Lading/Air Bill No.: 7724 1874532			
Project Title: SURV, JANUARY 2021	Method of Shipment: Commercial Carrier	Priority: 30 Days	Offsite Property No.: N/A				
Shipped To (Lab): GEL Laboratories, LLC							
Protocol: SURV							
POSSIBLE SAMPLE HAZARDS/REMARK ** 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							
SPECIAL INSTRUCTIONS N/A							
Sample No.	Filter	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B3YP90	N	JAN 13 2021	0820	1x500-mL G/P	6020_METALS_ICPMS: Chromium (1)	6 Months	HNO3 to pH <2
B3YP94	Y	JAN 13 2021	0820	1x500-mL G/P	6020_METALS_ICPMS: Chromium (1)	6 Months	HNO3 to pH <2

Relinquished By		Received By	
Print First and Last Name	Signature	Print First and Last Name	Signature
Juan Aguilar CHPRC	<i>[Signature]</i>	Janelle Zunker CHPRC	<i>[Signature]</i>
Date: JAN 13 2021	Time: 1100	Date: JAN 13 2021	Time: 1100
Janelle Zunker CHPRC	<i>[Signature]</i>	Stacy Boone GEL Laboratories	<i>[Signature]</i>
Date: JAN 13 2021	Time: 1400	Date: JAN 15 2021	Time: 930
Disposed Method (e.g., Return to customer, per lab procedure, used in process):		Disposed By:	
FINAL SAMPLE DISPOSITION		Date/Time:	

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C.# **S21-001-154**
Page 1 of 1

532902

Telephone No.: 509-376-4650
Purchase Order/Charge Code: 300071
Ice Chest No.: 6WS27
Bill of Lading/Air Bill No.: 7241874532
Offsite Property No.: D1A

Contact/Requester: Karen Waters-Husted
Sampling Origin: Hanford Site
Logbook No.: HNF-N-506-120115
Method of Shipment: Commercial Carrier
Priority: 30 Days

SPECIAL INSTRUCTIONS
N/A

POSSIBLE SAMPLE HAZARDS/REMARK
*** ** 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

Sample No.	Filter	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B3YNH2	Y	W JAN 13 2021	1033	1x500-mL G/P	6020_METALS_ICPMS: Chromium (1)	6 Months	HNO3 to pH <2
B3YNH1	N	W JAN 13 2021	1033	1x500-mL G/P	6020_METALS_ICPMS: Chromium (1)	6 Months	HNO3 to pH <2

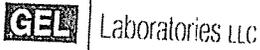
Relinquished By		Received By	
Print First and Last Name	Signature	Print First and Last Name	Signature
Juan Aguilar CHPRC		Janelle Zunker CHPRC	
JAN 13 2021	1100	JAN 13 2021	1100
Janelle Zunker CHPRC		Stacy Boone GEL Laboratories	
JAN 13 2021	1400	JAN 15 2021	930
FED EX	FED EX		

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

Disposal Method (e.g., Return to customer, per lab procedure, used in process):

Disposed By: _____ Date/Time: _____

Printed On 12/14/2020 FSR ID = FSR101338 A-6004-842 (REV 4)



SAMPLE RECEIPT & REVIEW FORM

Client: **CPRC** SDG/AR/COC/Work Order: **532182**
 Received By: **Stacy Boone** Date Received: **January 15, 2021**
 Carrier and Tracking Number: **7726 1871 1437 i c** **7726 1874 5321 i c**

Suspected Hazard Information: Yes No
 *If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
 Hazard Class Shipped: UN#: _____
 If UN2910, Is the Radioactive Shipment Survey Compliant? Yes ___ No ___
 A) Shipped as a DOT Hazardous?
 B) Did the client designate the samples are to be received as radioactive?
 C) Did the RSO classify the samples as radioactive?
 Maximum Net Counts Observed* (Observed Counts - Area Background Counts): CPM / mR/hr
 Classified as: Rad 1 Rad 2 Rad 3
 D) Did the client designate samples are hazardous?
 E) Did the RSO identify possible hazards?
 If D or E is yes, select Hazards below:
 PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

Sample Receipt Criteria		Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Preservation Method: Wet Ice Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: _____
4	Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Temperature Device Serial #: ARI-20 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	If Yes, are Encores or Soil Kits present for solids? Yes ___ No ___ NA ___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes <input checked="" type="checkbox"/> No ___ NA ___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes <input checked="" type="checkbox"/> No ___ NA ___ Sample ID's and containers affected:
8	Samples received within holding time?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ID's and containers affected:
10	Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
13	COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):
7726 1280 9475 i c **7726 1922 3098 i c**

PM (or PMA) review: Initials **CA** Date **1/18/21** Page **1** of **1**

Data Review Qualifier Definitions

Project Specific Qualifier Definitions for GEL Client Code: CPRC

Qualifier	Qualifier Definition	Department	Fraction
U	Analyzed for but not detected above limiting criteria. Includes MDL, MDA, PQL, zero, counting error, and total analytical error.		
J	The analyte was detected at a value less than the contract required detection limit (RDL), but greater than or equal to the IDL/MDL (as appropriate). Value is estimated	Organics	
P	Aroclor target analyte with greater than 25% difference between column analyses.	Organics	
C	Analyte has been confirmed by GC/MS analysis	Organics	Pesticide
B	The analyte was detected in both the associated QC blank and in the sample.	Organics	
E	Concentration exceeds the calibration range of the instrument	Organics	
A	The TIC is a suspected aldol-condensation product	Organics	Semi-Volatile
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier		
N	Spike Sample recovery is outside control limits.		
*	Duplicate analysis not within control limits	Inorganics	
>	Result greater than quantifiable range or greater than upper limit of the analysis range	General Chemistry	
Z	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier		
B	The analyte was detected at a value less than the contract required detection limit (RDL), but greater than or equal to the IDL/MDL (as appropriate).	Inorganics	Metals
D	Results are reported from a diluted aliquot of sample.		
E	Reported value is estimated due to interferences. See comment in narrative.		
M	Duplicate precision not met.	Inorganics	Metals
o	Analyte failed to recover within LCS limits (Organics only)	Organics	
S	Reported value determined by the Method of Standard Additions (MSA)	Inorganics	
T	Spike and/or spike duplicate sample recovery is outside control limits.	Organics	
W	Post-digestion spike recovery for GFAA out of control limit. Sample absorbency < 50% of spike absorbency.	Inorganics	
B	The analyte was detected in the associated method blank \geq MDC or $>5\%$ sample activity.	Radiological	
Y	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier		
+	Correlation coefficient for Method of Standard Additions (MSA) is < 0.995	Inorganics	
B	The analyte was detected at a value less than the contract required detection limit (RDL), but greater than or equal to the IDL/MDL (as appropriate).	General Chemistry	
C	Target analyte was detected in the sample and the associated blank. The associated blank concentration is \geq EQL or is $> 5\%$ of the measured concentration and/or decision level for associated samples.	Inorganics	Metals
C	Target analyte was detected in the sample and the associated blank. The associated blank concentration is \geq EQL or is $> 5\%$ of the measured concentration and/or decision level for associated samples.	General Chemistry	
<	Sample is below the EPA guidance level for Reactive Releasable Cyanide and/or Reactive Releasable Sulfide	General Chemistry	
UX	Gamma Spectroscopy--Uncertain identification	Radiological	
o	Analyte failed to recover within LCS limits	Radiological	Rad

Laboratory Certifications

List of current GEL Certifications as of 25 January 2021

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122021-1
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2019-165
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-20-17
Utah NELAP	SC000122020-33
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

Metals Analysis

Case Narrative

Metals
Technical Case Narrative
Central Plateau Cleanup Company
SDG #: GEL532182
Work Order #: 532182

Product: Determination of Metals by ICP-MS**Analytical Method:** SW846 3005A/6020B**Analytical Procedure:** GL-MA-E-014 REV# 34**Analytical Batch:** 2082461**Preparation Method:** SW846 3005A**Preparation Procedure:** GL-MA-E-006 REV# 14**Preparation Batch:** 2082459

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
532182022	B3YP93
532182023	B3YP89
532182024	B3YNJ5
532182025	B3YNJ4
532182026	B3YP85
532182027	B3YP86
532182028	B3YP98
532182029	B3YP99
532182030	B3YNF4
532182031	B3YNF3
532182032	B3YND1
532182033	B3YNC8
532182034	B3YP90
532182035	B3YP94
532182036	B3YNH2
532182037	B3YNH1
1204733775	Method Blank (MB)ICP-MS
1204733776	Laboratory Control Sample (LCS)
1204733779	532182031(B3YNF3L) Serial Dilution (SD)
1204733858	532182022(B3YP93L) Serial Dilution (SD)
1204733777	532182031(B3YNF3S) Matrix Spike (MS)
1204733856	532182022(B3YP93S) Matrix Spike (MS)
1204733778	532182031(B3YNF3SD) Matrix Spike Duplicate (MSD)
1204733857	532182022(B3YP93SD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information**ICSA/ICSAB Statement**

For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

**Qualifier Definition Report
for**

CPRC002 Central Plateau Cleanup Company (74393)

Client SDG: GEL532182 GEL Work Order: 532182

The Qualifiers in this report are defined as follows:

- * Duplicate analysis not within control limits
- B The analyte was detected at a value less than the contract required detection limit (RDL), but greater than or equal to the IDL/MDL (as appropriate).
- D Results are reported from a diluted aliquot of sample.
- U Analyzed for but not detected above limiting criteria. Includes MDL, MDA, PQL, zero, counting error, and total analytical error.

Review/Validation

GEL requires all analytical data to be verified by a qualified data reviewer. In addition, all CLP-like deliverables receive a third level review of the fractional data package.

The following data validator verified the information presented in this data report:

Signature:**Name: Edmund Frampton****Date: 25 JAN 2021****Title: Team Leader**

Sample Data Summary

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: GEL532182

CONTRACT: CPRC0S21001

METHOD TYPE: SW846

SAMPLE ID: 532182022

BASIS: As Received

DATE COLLECTED 13-JAN-21

CLIENT ID: B3YP93

LEVEL: Low

DATE RECEIVED 15-JAN-21

MATRIX: WATER

%SOLIDS: 0

CAS	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-47-3	Chromium	17.1	ug/L		3.00	10.0	10.0	1	MS	SKJ	01/19/21 18:52	210119-1	2082461

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
2082461	2082459	SW846 3005A	50	mL	50	mL	01/18/21	SM1

***Analytical Methods:**

MS SW846 3005A/6020B

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: GEL532182

CONTRACT: CPRC0S21001

METHOD TYPE: SW846

SAMPLE ID: 532182023

BASIS: As Received

DATE COLLECTED 13-JAN-21

CLIENT ID: B3YP89

LEVEL: Low

DATE RECEIVED 15-JAN-21

MATRIX: WATER

%SOLIDS: 0

CAS	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-47-3	Chromium	16.0	ug/L		3.00	10.0	10.0	1	MS	SKJ	01/19/21 19:09	210119-1	2082461

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
2082461	2082459	SW846 3005A	50	mL	50	mL	01/18/21	SM1

***Analytical Methods:**

MS SW846 3005A/6020B

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: GEL532182

CONTRACT: CPRC0S21001

METHOD TYPE: SW846

SAMPLE ID: 532182024

BASIS: As Received

DATE COLLECTED 13-JAN-21

CLIENT ID: B3YNJ5

LEVEL: Low

DATE RECEIVED 15-JAN-21

MATRIX: WATER

%SOLIDS: 0

CAS	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-47-3	Chromium	15.9	ug/L		3.00	10.0	10.0	1	MS	SKJ	01/19/21 19:19	210119-1	2082461

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
2082461	2082459	SW846 3005A	50	mL	50	mL	01/18/21	SM1

***Analytical Methods:**

MS SW846 3005A/6020B

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: GEL532182

CONTRACT: CPRC0S21001

METHOD TYPE: SW846

SAMPLE ID: 532182025

BASIS: As Received

DATE COLLECTED 13-JAN-21

CLIENT ID: B3YNJ4

LEVEL: Low

DATE RECEIVED 15-JAN-21

MATRIX: WATER

%SOLIDS: 0

CAS	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-47-3	Chromium	16.3	ug/L		3.00	10.0	10.0	1	MS	SKJ	01/19/21 19:22	210119-1	2082461

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
2082461	2082459	SW846 3005A	50	mL	50	mL	01/18/21	SM1

***Analytical Methods:**

MS SW846 3005A/6020B

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: GEL532182

CONTRACT: CPRC0S21001

METHOD TYPE: SW846

SAMPLE ID:532182026

BASIS: As Received

DATE COLLECTED 13-JAN-21

CLIENT ID: B3YP85

LEVEL: Low

DATE RECEIVED 15-JAN-21

MATRIX: WATER

%SOLIDS: 0

CAS	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-47-3	Chromium	20.0	ug/L		3.00	10.0	10.0	1	MS	SKJ	01/19/21 19:25	210119-1	2082461

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
2082461	2082459	SW846 3005A	50	mL	50	mL	01/18/21	SM1

***Analytical Methods:**

MS SW846 3005A/6020B

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: GEL532182

CONTRACT: CPRC0S21001

METHOD TYPE: SW846

SAMPLE ID: 532182027

BASIS: As Received

DATE COLLECTED 13-JAN-21

CLIENT ID: B3YP86

LEVEL: Low

DATE RECEIVED 15-JAN-21

MATRIX: WATER

%SOLIDS: 0

CAS	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-47-3	Chromium	20.9	ug/L		3.00	10.0	10.0	1	MS	SKJ	01/19/21 19:28	210119-1	2082461

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
2082461	2082459	SW846 3005A	50	mL	50	mL	01/18/21	SM1

***Analytical Methods:**

MS SW846 3005A/6020B

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: GEL532182

CONTRACT: CPRC0S21001

METHOD TYPE: SW846

SAMPLE ID: 532182028

BASIS: As Received

DATE COLLECTED 13-JAN-21

CLIENT ID: B3YP98

LEVEL: Low

DATE RECEIVED 15-JAN-21

MATRIX: WATER

%SOLIDS: 0

CAS	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-47-3	Chromium	12.3	ug/L		3.00	10.0	10.0	1	MS	SKJ	01/19/21 19:32	210119-1	2082461

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
2082461	2082459	SW846 3005A	50	mL	50	mL	01/18/21	SM1

***Analytical Methods:**

MS SW846 3005A/6020B

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: GEL532182

CONTRACT: CPRC0S21001

METHOD TYPE: SW846

SAMPLE ID: 532182029

BASIS: As Received

DATE COLLECTED 13-JAN-21

CLIENT ID: B3YP99

LEVEL: Low

DATE RECEIVED 15-JAN-21

MATRIX: WATER

%SOLIDS: 0

CAS	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-47-3	Chromium	13.0	ug/L		3.00	10.0	10.0	1	MS	SKJ	01/19/21 19:35	210119-1	2082461

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
2082461	2082459	SW846 3005A	50	mL	50	mL	01/18/21	SM1

***Analytical Methods:**

MS SW846 3005A/6020B

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: GEL532182

CONTRACT: CPRC0S21001

METHOD TYPE: SW846

SAMPLE ID: 532182030

BASIS: As Received

DATE COLLECTED 13-JAN-21

CLIENT ID: B3YNF4

LEVEL: Low

DATE RECEIVED 15-JAN-21

MATRIX: WATER

%SOLIDS: 0

CAS	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-47-3	Chromium	23.3	ug/L		3.00	10.0	10.0	1	MS	SKJ	01/19/21 19:38	210119-1	2082461

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
2082461	2082459	SW846 3005A	50	mL	50	mL	01/18/21	SM1

***Analytical Methods:**

MS SW846 3005A/6020B

METALS
 -1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: GEL532182

CONTRACT: CPRC0S21001

METHOD TYPE: SW846

SAMPLE ID: 532182031

BASIS: As Received

DATE COLLECTED 13-JAN-21

CLIENT ID: B3YNF3

LEVEL: Low

DATE RECEIVED 15-JAN-21

MATRIX: WATER

%SOLIDS: 0

CAS	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-47-3	Chromium	23.2	ug/L		3.00	10.0	10.0	1	MS	SKJ	01/19/21 19:48	210119-1	2082461

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
2082461	2082459	SW846 3005A	50	mL	50	mL	01/18/21	SM1

***Analytical Methods:**

MS SW846 3005A/6020B

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: GEL532182

CONTRACT: CPRC0S21001

METHOD TYPE: SW846

SAMPLE ID:532182032

BASIS: As Received

DATE COLLECTED 13-JAN-21

CLIENT ID: B3YND1

LEVEL: Low

DATE RECEIVED 15-JAN-21

MATRIX: WATER

%SOLIDS: 0

CAS	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-47-3	Chromium	12.4	ug/L		3.00	10.0	10.0	1	MS	SKJ	01/19/21 20:05	210119-1	2082461

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
2082461	2082459	SW846 3005A	50	mL	50	mL	01/18/21	SM1

***Analytical Methods:**

MS SW846 3005A/6020B

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: GEL532182

CONTRACT: CPRC0S21001

METHOD TYPE: SW846

SAMPLE ID:532182033

BASIS: As Received

DATE COLLECTED 13-JAN-21

CLIENT ID: B3YNC8

LEVEL: Low

DATE RECEIVED 15-JAN-21

MATRIX: WATER

%SOLIDS: 0

CAS	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-47-3	Chromium	11.9	ug/L		3.00	10.0	10.0	1	MS	SKJ	01/19/21 20:08	210119-1	2082461

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
2082461	2082459	SW846 3005A	50	mL	50	mL	01/18/21	SM1

***Analytical Methods:**

MS SW846 3005A/6020B

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: GEL532182

CONTRACT: CPRC0S21001

METHOD TYPE: SW846

SAMPLE ID: 532182034

BASIS: As Received

DATE COLLECTED 13-JAN-21

CLIENT ID: B3YP90

LEVEL: Low

DATE RECEIVED 15-JAN-21

MATRIX: WATER

%SOLIDS: 0

CAS	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-47-3	Chromium	16.4	ug/L		3.00	10.0	10.0	1	MS	SKJ	01/19/21 20:18	210119-1	2082461

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
2082461	2082459	SW846 3005A	50	mL	50	mL	01/18/21	SM1

***Analytical Methods:**

MS SW846 3005A/6020B

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: GEL532182

CONTRACT: CPRC0S21001

METHOD TYPE: SW846

SAMPLE ID:532182035

BASIS: As Received

DATE COLLECTED 13-JAN-21

CLIENT ID: B3YP94

LEVEL: Low

DATE RECEIVED 15-JAN-21

MATRIX: WATER

%SOLIDS: 0

CAS	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-47-3	Chromium	16.8	ug/L		3.00	10.0	10.0	1	MS	SKJ	01/19/21 20:21	210119-1	2082461

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
2082461	2082459	SW846 3005A	50	mL	50	mL	01/18/21	SM1

***Analytical Methods:**

MS SW846 3005A/6020B

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: GEL532182

CONTRACT: CPRC0S21001

METHOD TYPE: SW846

SAMPLE ID:532182036

BASIS: As Received

DATE COLLECTED 13-JAN-21

CLIENT ID: B3YNH2

LEVEL: Low

DATE RECEIVED 15-JAN-21

MATRIX: WATER

%SOLIDS: 0

CAS	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-47-3	Chromium	3.47	ug/L	B	3.00	10.0	10.0	1	MS	SKJ	01/19/21 20:24	210119-1	2082461

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
2082461	2082459	SW846 3005A	50	mL	50	mL	01/18/21	SM1

***Analytical Methods:**

MS SW846 3005A/6020B

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: GEL532182

CONTRACT: CPRC0S21001

METHOD TYPE: SW846

SAMPLE ID:532182037

BASIS: As Received

DATE COLLECTED 13-JAN-21

CLIENT ID: B3YNH1

LEVEL: Low

DATE RECEIVED 15-JAN-21

MATRIX: WATER

%SOLIDS: 0

CAS	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-47-3	Chromium	3.18	ug/L	B	3.00	10.0	10.0	1	MS	SKJ	01/19/21 20:28	210119-1	2082461

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
2082461	2082459	SW846 3005A	50	mL	50	mL	01/18/21	SM1

***Analytical Methods:**

MS SW846 3005A/6020B

Quality Control Summary

GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Report Date: January 25, 2021

Page 1 of 2

Central Plateau Cleanup Company

MSIN R3-50

PO Box 1600

Richland, Washington

Contact: Mr. Scot Fitzgerald

Workorder: 532182

Parmname	NOM	Sample	Qual	QC	Units	RPD/D%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2082461										
QC1204733776	LCS										
Chromium	50.0			49.5	ug/L		99.1	(80%-120%)	SKJ	01/19/21	18:49
QC1204733775	MB										
Chromium			U	3.00	ug/L					01/19/21	18:46
QC1204733777	532182031	MS									
Chromium	50.0	23.2		70.2	ug/L		93.9	(75%-125%)		01/19/21	19:51
QC1204733856	532182022	MS									
Chromium	50.0	17.1		65.3	ug/L		96.5	(75%-125%)		01/19/21	18:56
QC1204733778	532182031	MSD									
Chromium	50.0	23.2		69.4	ug/L	1.11	92.3	(0%-20%)		01/19/21	19:55
QC1204733857	532182022	MSD									
Chromium	50.0	17.1		63.8	ug/L	2.34	93.4	(0%-20%)		01/19/21	18:59
QC1204733779	532182031	SDILT									
Chromium		23.2	BD	4.58	ug/L	1.41		(0%-20%)		01/19/21	20:01
QC1204733858	532182022	SDILT									
Chromium		17.1	BD	3.22	ug/L	5.97		(0%-20%)		01/19/21	19:05

Notes:

The Qualifiers in this report are defined as follows:

- * Duplicate analysis not within control limits
- + Correlation coefficient for Method of Standard Additions (MSA) is < 0.995
- B The analyte was detected at a value less than the contract required detection limit (RDL), but greater than or equal to the IDL/MDL (as appropriate).
- C Target analyte was detected in the sample and the associated blank. The associated blank concentration is >= EQL or is > 5% of the measured concentration and/or decision level for associated samples.

GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 532182

Page 2 of 2

Parmname	NOM	Sample	Qual	QC	Units	RPD/D%	REC%	Range	Anlst	Date	Time
D	Results are reported from a diluted aliquot of sample.										
E	Reported value is estimated due to interferences. See comment in narrative.										
M	Duplicate precision not met.										
N	Spike Sample recovery is outside control limits.										
S	Reported value determined by the Method of Standard Additions (MSA)										
U	Analyzed for but not detected above limiting criteria. Includes MDL, MDA, PQL, zero, counting error, and total analytical error.										
W	Post-digestion spike recovery for GFAA out of control limit. Sample absorbency < 50% of spike absorbency.										
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier										
Y	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier										
Z	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier										

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

General Chem Analysis

Case Narrative

**General Chemistry
Technical Case Narrative
Central Plateau Cleanup Company
SDG #: GEL532182
Work Order #: 532182**

Product: Ion Chromatography**Analytical Method:** 9056_ANIONS_IC**Analytical Procedure:** GL-GC-E-086 REV# 29**Analytical Batch:** 2082203

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
532182019	B3YND8
532182020	B3YTV9
532182021	B3YTV8
1204733245	Method Blank (MB)
1204733246	Laboratory Control Sample (LCS)
1204733247	532178002(NonSDG) Sample Duplicate (DUP)
1204733248	532178002(NonSDG) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information**Holding Times**

Sample (See Below) was initially analyzed within holding; however, the holding time had expired prior to reanalysis of diluted sample. The data is qualified.

Sample	Analyte	Value
532182020 (B3YTV9)	Nitrate-N	Received 15-JAN-21, within holding, analyzed 15-JAN-21, out of holding 15-JAN-21

Samples (See Below) were analyzed outside of the method specified holding time. The analysis was performed as soon as possible by the analyst. The data is qualified.

Sample	Analyte	Value
1204733247 (Non SDG 532178002DUP)	Nitrate-N and Nitrite-N	Received 15-JAN-21, within holding, analyzed 15-JAN-21, out of holding 15-JAN-21
1204733248 (Non SDG 532178002PS)	Nitrate-N and Nitrite-N	Received 15-JAN-21, within holding, analyzed 15-JAN-21, out of holding 15-JAN-21

Sample Dilutions

The following samples 1204733247 (Non SDG 532178002DUP), 1204733248 (Non SDG 532178002PS), 532182019 (B3YND8), 532182020 (B3YTV9) and 532182021 (B3YTV8) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	532182		
	019	020	021
Chloride	20X	20X	10X
Nitrate-N	1X	20X	1X
Sulfate	20X	20X	10X

Product: Hexavalent Chromium**Analytical Method:** 7196_CR6**Analytical Procedure:** GL-GC-E-132 REV# 3**Analytical Batch:** 2082189

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
532182001	B3YND2
532182002	B3YND6
532182003	B3YNF5
532182004	B3YNJ6
532182005	B3YP87
532182006	B3YPB0
532182007	B3YNJ2
532182008	B3YNH8
532182009	B3YP83
532182010	B3YP95
532182011	B3YP96
532182012	B3YP84
532182013	B3YP73
532182014	B3YNP3
532182015	B3YNF1
532182016	B3YNH3
532182017	B3YNF9
532182018	B3YP74
1204733235	Method Blank (MB)
1204733236	Laboratory Control Sample (LCS)
1204733237	532182001(B3YND2) Sample Duplicate (DUP)
1204733238	532182001(B3YND2) Post Spike (PS)
1204733239	532182002(B3YND6) Sample Duplicate (DUP)
1204733240	532182002(B3YND6) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information**Holding Times**

Samples (See Below) were received by the laboratory outside of the method specified holding time. The data is qualified.

Sample	Analyte	Value
1204733237 (B3YND2DUP)		Received 15-JAN-21, out of holding 14-JAN-21
1204733238 (B3YND2PS)		Received 15-JAN-21, out of holding 14-JAN-21
1204733239 (B3YND6DUP)		Received 15-JAN-21, out of holding 14-JAN-21
1204733240 (B3YND6PS)		Received 15-JAN-21, out of holding 14-JAN-21
532182001 (B3YND2)		Received 15-JAN-21, out of holding 14-JAN-21
532182002 (B3YND6)		Received 15-JAN-21, out of holding 14-JAN-21
532182003 (B3YNF5)		Received 15-JAN-21, out of holding 14-JAN-21
532182004 (B3YNJ6)		Received 15-JAN-21, out of holding 14-JAN-21
532182005 (B3YP87)		Received 15-JAN-21, out of holding 14-JAN-21
532182006 (B3YPB0)		Received 15-JAN-21, out of holding 14-JAN-21
532182007 (B3YNJ2)		Received 15-JAN-21, out of holding 14-JAN-21
532182008 (B3YNH8)		Received 15-JAN-21, out of holding 14-JAN-21
532182009 (B3YP83)		Received 15-JAN-21, out of holding 14-JAN-21
532182010 (B3YP95)		Received 15-JAN-21, out of holding 14-JAN-21
532182011 (B3YP96)		Received 15-JAN-21, out of holding 14-JAN-21
532182012 (B3YP84)		Received 15-JAN-21, out of holding 14-JAN-21
532182013 (B3YP73)		Received 15-JAN-21, out of holding 14-JAN-21
532182014 (B3YNP3)		Received 15-JAN-21, out of holding 14-JAN-21
532182015 (B3YNF1)		Received 15-JAN-21, out of holding 14-JAN-21
532182016 (B3YNH3)		Received 15-JAN-21, out of holding 14-JAN-21
532182017 (B3YNF9)		Received 15-JAN-21, out of holding 14-JAN-21
532182018 (B3YP74)		Received 15-JAN-21, out of holding 14-JAN-21

Sample Re-analysis

Samples 532182015 (B3YNF1) and 532182018 (B3YP74) were re-analyzed due to instrument failure. The results from the reanalysis are reported.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

**Qualifier Definition Report
for**

CPRC002 Central Plateau Cleanup Company (74393)

Client SDG: GEL532182 GEL Work Order: 532182

The Qualifiers in this report are defined as follows:

B The analyte was detected at a value less than the contract required detection limit (RDL), but greater than or equal to the IDL/MDL (as appropriate).

D Results are reported from a diluted aliquot of sample.

U Analyzed for but not detected above limiting criteria. Includes MDL, MDA, PQL, zero, counting error, and total analytical error.

X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

Review/Validation

GEL requires all analytical data to be verified by a qualified data reviewer. In addition, all CLP-like deliverables receive a third level review of the fractional data package.

The following data validator verified the information presented in this data report:

Signature:**Name: Edmund Frampton****Date: 25 JAN 2021****Title: Team Leader**

Sample Data Summary

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: January 26, 2021

Company : Central Plateau Cleanup Company
 Address : MSIN R3-50
 PO Box 1600
 Richland, Washington 99352
 Contact: Mr. Scot Fitzgerald
 Project: SAF S21-001

Client Sample ID: B3YND6 Project: CPRC0S21001
 Sample ID: 532182002 Client ID: CPRC002
 Matrix: WATER
 Collect Date: 13-JAN-21 10:15
 Receive Date: 15-JAN-21
 Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis												
7196_CR6: COMMON (Lachat) "As Received"												
Hexavalent Chromium	X	0.00433	0.00130	0.00400	mg/L		1	AXH3	01/15/21	1050	2082189	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	7196_CR6	

Notes:

Column headers are defined as follows:

- DF: Dilution Factor
- DL: Detection Limit
- MDA: Minimum Detectable Activity
- MDC: Minimum Detectable Concentration
- Lc/LC: Critical Level
- PF: Prep Factor
- RL: Reporting Limit
- SQL: Sample Quantitation Limit

Certificate of Analysis

Report Date: January 26, 2021

Company : Central Plateau Cleanup Company
 Address : MSIN R3-50
 PO Box 1600
 Richland, Washington 99352
 Contact: Mr. Scot Fitzgerald
 Project: SAF S21-001

Client Sample ID: B3YNF5 Project: CPRC0S21001
 Sample ID: 532182003 Client ID: CPRC002
 Matrix: WATER
 Collect Date: 13-JAN-21 09:26
 Receive Date: 15-JAN-21
 Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis												
7196_CR6: COMMON (Lachat) "As Received"												
Hexavalent Chromium	X	0.0228	0.00130	0.00400	mg/L		1	AXH3	01/15/21	1055	2082189	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	7196_CR6	

Notes:

Column headers are defined as follows:

- DF: Dilution Factor
- DL: Detection Limit
- MDA: Minimum Detectable Activity
- MDC: Minimum Detectable Concentration
- Lc/LC: Critical Level
- PF: Prep Factor
- RL: Reporting Limit
- SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: January 26, 2021

Company : Central Plateau Cleanup Company
 Address : MSIN R3-50
 PO Box 1600
 Richland, Washington 99352
 Contact: Mr. Scot Fitzgerald
 Project: SAF S21-001

Client Sample ID: B3YP87 Project: CPRC0S21001
 Sample ID: 532182005 Client ID: CPRC002
 Matrix: WATER
 Collect Date: 13-JAN-21 09:04
 Receive Date: 15-JAN-21
 Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis												
7196_CR6: COMMON (Lachat) "As Received"												
Hexavalent Chromium	X	0.0197	0.00130	0.00400	mg/L		1	AXH3	01/15/21	1102	2082189	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	7196_CR6	

Notes:

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

Certificate of Analysis

Report Date: January 26, 2021

Company : Central Plateau Cleanup Company
 Address : MSIN R3-50
 PO Box 1600
 Richland, Washington 99352
 Contact: Mr. Scot Fitzgerald
 Project: SAF S21-001

Client Sample ID: B3YPB0 Project: CPRC0S21001
 Sample ID: 532182006 Client ID: CPRC002
 Matrix: WATER
 Collect Date: 13-JAN-21 08:54
 Receive Date: 15-JAN-21
 Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis												
7196_CR6: COMMON (Lachat) "As Received"												
Hexavalent Chromium	X	0.0121	0.00130	0.00400	mg/L		1	AXH3	01/15/21	1104	2082189	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	7196_CR6	

Notes:

Column headers are defined as follows:

- | | |
|---------------------------------------|--------------------------------|
| DF: Dilution Factor | Lc/LC: Critical Level |
| DL: Detection Limit | PF: Prep Factor |
| MDA: Minimum Detectable Activity | RL: Reporting Limit |
| MDC: Minimum Detectable Concentration | SQL: Sample Quantitation Limit |

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: January 26, 2021

Company : Central Plateau Cleanup Company
 Address : MSIN R3-50
 PO Box 1600
 Richland, Washington 99352
 Contact: Mr. Scot Fitzgerald
 Project: SAF S21-001

Client Sample ID: B3YNH8 Project: CPRC0S21001
 Sample ID: 532182008 Client ID: CPRC002
 Matrix: WATER
 Collect Date: 13-JAN-21 08:40
 Receive Date: 15-JAN-21
 Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis												
7196_CR6: COMMON (Lachat) "As Received"												
Hexavalent Chromium	X	0.00850	0.00130	0.00400	mg/L		1	AXH3	01/15/21	1107	2082189	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	7196_CR6	

Notes:

Column headers are defined as follows:

- DF: Dilution Factor
- DL: Detection Limit
- MDA: Minimum Detectable Activity
- MDC: Minimum Detectable Concentration
- Lc/LC: Critical Level
- PF: Prep Factor
- RL: Reporting Limit
- SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: January 26, 2021

Company : Central Plateau Cleanup Company
 Address : MSIN R3-50
 PO Box 1600
 Richland, Washington 99352
 Contact: Mr. Scot Fitzgerald
 Project: SAF S21-001

Client Sample ID: B3YP95 Project: CPRC0S21001
 Sample ID: 532182010 Client ID: CPRC002
 Matrix: WATER
 Collect Date: 13-JAN-21 08:20
 Receive Date: 15-JAN-21
 Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis												
7196_CR6: COMMON (Lachat) "As Received"												
Hexavalent Chromium	X	0.0161	0.00130	0.00400	mg/L		1	AXH3	01/15/21	1110	2082189	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	7196_CR6	

Notes:

Column headers are defined as follows:

- DF: Dilution Factor
- DL: Detection Limit
- MDA: Minimum Detectable Activity
- MDC: Minimum Detectable Concentration
- Lc/LC: Critical Level
- PF: Prep Factor
- RL: Reporting Limit
- SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: January 26, 2021

Company : Central Plateau Cleanup Company
 Address : MSIN R3-50
 PO Box 1600
 Richland, Washington 99352
 Contact: Mr. Scot Fitzgerald
 Project: SAF S21-001

Client Sample ID: B3YP96 Project: CPRC0S21001
 Sample ID: 532182011 Client ID: CPRC002
 Matrix: WATER
 Collect Date: 13-JAN-21 08:20
 Receive Date: 15-JAN-21
 Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis												
7196_CR6: COMMON (Lachat) "As Received"												
Hexavalent Chromium	X	0.0164	0.00130	0.00400	mg/L		1	AXH3	01/15/21	1111	2082189	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	7196_CR6	

Notes:

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: January 26, 2021

Company : Central Plateau Cleanup Company
 Address : MSIN R3-50
 PO Box 1600
 Richland, Washington 99352
 Contact: Mr. Scot Fitzgerald
 Project: SAF S21-001

Client Sample ID: B3YNF9 Project: CPRC0S21001
 Sample ID: 532182017 Client ID: CPRC002
 Matrix: WATER
 Collect Date: 13-JAN-21 10:42
 Receive Date: 15-JAN-21
 Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis												
7196_CR6: COMMON (Lachat) "As Received"												
Hexavalent Chromium	X	0.0279	0.00130	0.00400	mg/L		1	AXH3	01/15/21	1125	2082189	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	7196_CR6	

Notes:

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: January 26, 2021

Company : Central Plateau Cleanup Company
 Address : MSIN R3-50
 PO Box 1600
 Richland, Washington 99352
 Contact: Mr. Scot Fitzgerald
 Project: SAF S21-001

Client Sample ID: B3YP74 Project: CPRC0S21001
 Sample ID: 532182018 Client ID: CPRC002
 Matrix: WATER
 Collect Date: 13-JAN-21 09:50
 Receive Date: 15-JAN-21
 Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis												
7196_CR6: COMMON (Lachat) "As Received"												
Hexavalent Chromium	BX	0.00337	0.00130	0.00400	mg/L		1	AXH3	01/15/21	1131	2082189	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	7196_CR6	

Notes:

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: January 26, 2021

Company : Central Plateau Cleanup Company
 Address : MSIN R3-50
 PO Box 1600
 Richland, Washington 99352
 Contact: Mr. Scot Fitzgerald
 Project: SAF S21-001

Client Sample ID: B3YND8 Project: CPRC0S21001
 Sample ID: 532182019 Client ID: CPRC002
 Matrix: WATER
 Collect Date: 13-JAN-21 10:24
 Receive Date: 15-JAN-21
 Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
9056_ANIONS_IC: COMMON "As Received"												
Fluoride	B	135	33.0	500	ug/L		1	CH5	01/15/21	1058	2082203	1
Nitrate-N		4170	33.0	100	ug/L		1					
Nitrite-N	U	33.0	33.0	100	ug/L		1					
Chloride	D	14300	1340	4000	ug/L		20	CH5	01/15/21	2131	2082203	2
Sulfate	D	156000	2660	8000	ug/L		20					

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	9056_ANIONS_IC	
2	9056_ANIONS_IC	

Notes:

Column headers are defined as follows:

- DF: Dilution Factor
- DL: Detection Limit
- MDA: Minimum Detectable Activity
- MDC: Minimum Detectable Concentration
- Lc/LC: Critical Level
- PF: Prep Factor
- RL: Reporting Limit
- SQL: Sample Quantitation Limit

Certificate of Analysis

Report Date: January 26, 2021

Company : Central Plateau Cleanup Company
 Address : MSIN R3-50
 PO Box 1600
 Richland, Washington 99352
 Contact: Mr. Scot Fitzgerald
 Project: SAF S21-001

Client Sample ID: B3YTV9 Project: CPRC0S21001
 Sample ID: 532182020 Client ID: CPRC002
 Matrix: WATER
 Collect Date: 13-JAN-21 08:54
 Receive Date: 15-JAN-21
 Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
9056_ANIONS_IC: COMMON "As Received"												
Fluoride	B	159	33.0	500	ug/L		1	CH5	01/15/21	1127	2082203	1
Nitrite-N	U	33.0	33.0	100	ug/L		1					
Chloride	D	23400	1340	4000	ug/L		20	CH5	01/15/21	2201	2082203	2
Nitrate-N	DX	6170	660	2000	ug/L		20					
Sulfate	D	156000	2660	8000	ug/L		20					

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	9056_ANIONS_IC	
2	9056_ANIONS_IC	

Notes:

Column headers are defined as follows:

- DF: Dilution Factor
- DL: Detection Limit
- MDA: Minimum Detectable Activity
- MDC: Minimum Detectable Concentration
- Lc/LC: Critical Level
- PF: Prep Factor
- RL: Reporting Limit
- SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: January 26, 2021

Company : Central Plateau Cleanup Company
 Address : MSIN R3-50
 PO Box 1600
 Richland, Washington 99352
 Contact: Mr. Scot Fitzgerald
 Project: SAF S21-001

Client Sample ID: B3YTV8 Project: CPRC0S21001
 Sample ID: 532182021 Client ID: CPRC002
 Matrix: WATER
 Collect Date: 13-JAN-21 10:07
 Receive Date: 15-JAN-21
 Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
9056_ANIONS_IC: COMMON "As Received"												
Fluoride	B	136	33.0	500	ug/L		1	CH5	01/15/21	1157	2082203	1
Nitrate-N		1030	33.0	100	ug/L		1					
Nitrite-N	U	33.0	33.0	100	ug/L		1					
Chloride	D	12100	670	2000	ug/L		10	CH5	01/15/21	2231	2082203	2
Sulfate	D	132000	1330	4000	ug/L		10					

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	9056_ANIONS_IC		
2	9056_ANIONS_IC		

Notes:Column headers are defined as follows:

DF: Dilution Factor Lc/LC: Critical Level
 DL: Detection Limit PF: Prep Factor
 MDA: Minimum Detectable Activity RL: Reporting Limit
 MDC: Minimum Detectable Concentration SQL: Sample Quantitation Limit

Quality Control Summary

GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Report Date: January 26, 2021

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Central Plateau Cleanup Company

MSIN R3-50

PO Box 1600

Richland, Washington

Contact: Mr. Scot Fitzgerald

Workorder: 532182

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2082203										
QC1204733247	532178002	DUP									
Chloride	D	22200	D	22100	ug/L	0.484		(0%-20%)	CH5	01/15/21	20:02
Fluoride	B	332	B	351	ug/L	5.77 ^		(+/-500)		01/15/21	17:33
Nitrate-N	DX	5420	DX	5240	ug/L	3.32		(0%-20%)		01/15/21	20:02
Nitrite-N	UX	33.0	UX	33.0	ug/L	N/A				01/15/21	17:33
Sulfate	D	62200	D	62300	ug/L	0.0514		(0%-20%)		01/15/21	20:02
QC1204733246	LCS										
Chloride	5000			4920	ug/L		98.4	(80%-120%)		01/15/21	16:03
Fluoride	2500			2430	ug/L		97.3	(80%-120%)			
Nitrate-N	2500			2510	ug/L		101	(80%-120%)			
Nitrite-N	2500			2420	ug/L		96.9	(80%-120%)			
Sulfate	10000			9880	ug/L		98.8	(80%-120%)			
QC1204733245	MB										
Chloride			U	67.0	ug/L					01/15/21	15:33
Fluoride			U	33.0	ug/L						
Nitrate-N			U	33.0	ug/L						

GEL LABORATORIES LLC

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QC Summary

Workorder: 532182

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2082203										
Nitrite-N			U	33.0	ug/L				CH5	01/15/21	15:33
Sulfate			U	133	ug/L						
QC1204733248	532178002	PS									
Chloride	5.00	D	2.22	D	7.23	mg/L	100	(75%-125%)		01/15/21	20:32
Fluoride	2.50	B	0.332		2.74	mg/L	96.4	(75%-125%)		01/15/21	18:03
Nitrate-N	2.50	DX	0.542	DX	2.95	mg/L	96.3	(75%-125%)		01/15/21	20:32
Nitrite-N	2.50	UX	0.000	X	2.45	mg/L	98	(75%-125%)		01/15/21	18:03
Sulfate	10.0	D	6.22	D	16.4	mg/L	101	(75%-125%)		01/15/21	20:32
Nutrient Analysis											
Batch	2082189										
QC1204733237	532182001	DUP									
Hexavalent Chromium		X	0.0128	X	0.0129	mg/L	0.778	^ (+/-0.00400)	AXH3	01/15/21	10:47
QC1204733239	532182002	DUP									
Hexavalent Chromium		X	0.00433	X	0.00422	mg/L	2.57	^ (+/-0.00400)		01/15/21	10:52
QC1204733236	LCS										
Hexavalent Chromium	0.0500				0.0509	mg/L	102	(90%-110%)		01/15/21	10:45
QC1204733235	MB										
Hexavalent Chromium				U	0.00130	mg/L				01/15/21	10:43
QC1204733238	532182001	PS									
Hexavalent Chromium	0.0500	X	0.0128	X	0.0603	mg/L	95	(90%-110%)		01/15/21	10:49

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QC Summary

Workorder: 532182

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Nutrient Analysis											
Batch	2082189										
QC1204733240	532182002	PS									
Hexavalent Chromium	0.0500	X	0.00433	X	0.0523	mg/L	95.9	(90%-110%)	AXH3	01/15/21	10:53

Notes:

The Qualifiers in this report are defined as follows:

- < Sample is below the EPA guidance level for Reactive Releasable Cyanide and/or Reactive Releasable Sulfide
- > Result greater than quantifiable range or greater than upper limit of the analysis range
- B The analyte was detected at a value less than the contract required detection limit (RDL), but greater than or equal to the IDL/MDL (as appropriate).
- C Target analyte was detected in the sample and the associated blank. The associated blank concentration is \geq EQL or is $>$ 5% of the measured concentration and/or decision level for associated samples.
- D Results are reported from a diluted aliquot of sample.
- E Reported value is estimated due to interferences. See comment in narrative.
- N Spike Sample recovery is outside control limits.
- U Analyzed for but not detected above limiting criteria. Includes MDL, MDA, PQL, zero, counting error, and total analytical error.
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- Y Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- Z Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.