



**DIVERSIFIED GAS & OIL**  
**C O R P O R A T I O N**

**Fall 2021 SOIL/VEGETATION SURVEY FOR  
WATER PRODUCED FROM COALBED METHANE WELLS  
WPP-005B AND WPP-005C  
CURRENT PERMIT #GP-WV-1-07-10902805  
GLEN ROGERS, WYOMING COUNTY, WEST VIRGINIA**

**Diversified Production LLC**

**101 McQuiston Drive  
Jackson Center, PA 16133**

**11/22/2024**



DIVERSIFIED GAS & OIL  
CORPORATION

November 17, 2021

certified mail 70151730000129359807

Mr. James Martin, *Chief*  
West Virginia Department of  
Environmental Protection Office of Oil and Gas  
601 57<sup>th</sup> Street, SE  
Charleston, West Virginia 25304

Re: Fall 2021 Soil/Vegetation Survey  
Land Application of Water Produced from Coalbed Methane Well  
Diversified Production LLC WPP-005B/C  
API 109-02805 and API 109-02806  
Wyoming County West Virginia

Dear Mr. Martin:

On behalf of Diversified Production, I am pleased to submit this "*Soil/Vegetation Survey for 2021 Fall Land Application of Water Produced from Coalbed Methane Wells.*" The facility is currently permitted under General Permit #GP-WV-1-07-10902805.

Sincerely

Rocky Stilwell  
Diversified Production LLC  
[rstilwell@dgoc.com](mailto:rstilwell@dgoc.com)  
276-245-6057 mobile  
330-896-8510 ext. 335 Office

11/22/2024



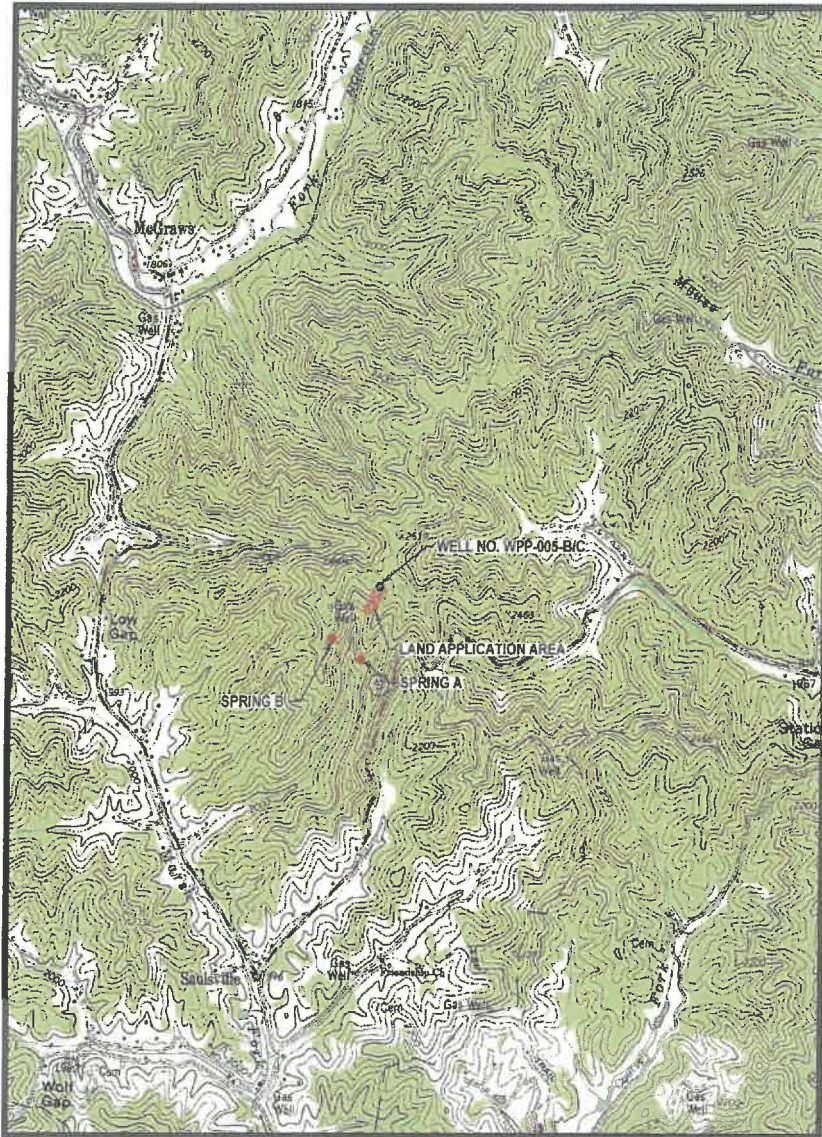
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**C O R P O R A T I O N**

**Soil Sampling / Vegetation study, to include both background and baseline conditions:**

**Vegetation surveys have been conducted on site since 2007 and those findings have been provided to WVDEP. The baseline study was to develop a snap-shot look at the floral communities to help determine if the discharged water is having any adverse effects. Vegetation studies will continue twice each year during spring and fall to monitor the community for signs of stress. The data collected from sample sites and control areas will be compared to identify differences over time. Vegetation will be examined for visible foliar symptoms of contamination, such as Aluminium toxicity, due to water released by CBM water well. Land application areas have been chosen based on Soil types, plant communities, topography, and distance from surface water sources. The study areas are shown on the Location and Design Map.**



# DIVERSIFIED GAS & OIL CORPORATION



LAND APPLICATION SITE - WYOMING COUNTY, WEST VIRGINIA  
PORTION OF USGS 7.5' MCGRAWS, WV QUADRANGLE

2,000' 0 2,000'

SCALE 1:2,000

LOCATION MAP

WELL NO. WPP-005-B/C



WEST VIRGINIA  
QUADRANGLE  
LOCATION

E





# DIVERSIFIED GAS & OIL CORPORATION

## Base Line Soil/Vegetation Survey WPP-005B/C (Surveyed 9/21/2021)

The forested area is an upland old growth deciduous forest in dry acidic soil. The dominate trees are composed primarily of Tulip Poplars (*Liriodendron tulipifera* ), Red Maples (*Acer rubra*), and Oaks (*Quercus rubra*, *Q. Prinus*). The area surrounding the well site bench will be used for the water application site; water will come from well WPP-005B/C.





# DIVERSIFIED GAS & OIL CORPORATION

**The herbaceous layer is comprised of species found in over story and ground cover is consistent with what is to be expected in an old growth forest with minor disturbance.**



**The existing vegetation was examined for visible foliar symptoms of contamination, such as aluminium toxicity, due to water released from WPP- 005B/C. No contamination of any nature was not observed on the vegetation located in the water application site.**



DIVERSIFIED GAS & OIL  
CORPORATION

**Summary of Surface Water Data**

**ALS Group, USA**

Date: 30-Sep-21

**Client:** Core Appalachia Operating, LLC  
**Project:** WPP-005  
**Sample ID:** WPP-005-Surface #1 Grab  
**Collection Date:** 9/21/2021 09:40 AM

**Work Order:** 21091995  
**Lab ID:** 21091995-03  
**Matrix:** WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<b>MERCURY BY CVAA (DISSOLVED)</b>							
Mercury		U	0.00016	0.00020	mg/L	1	9/27/2021 13:39
Method:SW7470A Prep: SW7470 / 9/27/21 Analyst: <b>MTW</b>							
<b>METALS BY ICP-MS</b>							
Barium	0.093		0.0020	0.0050	mg/L	1	9/29/2021 19:20
Calcium	11		0.25	0.50	mg/L	1	9/29/2021 19:20
Magnesium	4.2		0.050	0.20	mg/L	1	9/29/2021 19:20
Potassium	14		0.096	0.20	mg/L	1	9/29/2021 19:20
Sodium	0.57		0.18	0.20	mg/L	1	9/29/2021 19:20
Method:SW6020B Prep: SW3015A / 9/27/21 Analyst: <b>STP</b>							
<b>METALS BY ICP-MS (DISSOLVED)</b>							
Aluminum	0.022		0.0080	0.010	mg/L	1	9/29/2021 19:18
Iron	0.20		0.050	0.080	mg/L	1	9/29/2021 19:18
Manganese	5.3		0.025	0.050	mg/L	10	9/30/2021 12:33
Selenium	0.00094	J	0.00048	0.0050	mg/L	1	9/29/2021 19:18
Method:SW6020B Prep: SW3015A / 9/27/21 Analyst: <b>STP</b>							
<b>ANIONS BY ION CHROMATOGRAPHY</b>							
Chloride	2.3		0.62	2.0	mg/L	2	9/23/2021 22:15
Sulfate	0.21	J	0.19	1.0	mg/L	1	9/24/2021 14:01
Method:E300.0 Analyst: <b>QTN</b>							
<b>TOTAL DISSOLVED SOLIDS</b>							
Total Dissolved Solids	120		22	30	mg/L	1	9/27/2021 15:46
Method:A2540 C-11 Prep: FILTER / 9/23/21 Analyst: <b>SRN</b>							

**Note:** See Qualifiers page for a list of qualifiers and their definitions.





DIVERSIFIED GAS & OIL  
CORPORATION

## **Coalbed Produced Water**

11/22/2024



30-Sep-2021

Josh Roberts  
Core Appalachia Operating, LLC  
414 Summers Street  
Charleston, WV 25301

Re: **005 CBM**

Work Order: **21091997**

Dear Josh,

ALS Environmental received 1 sample on 21-Sep-2021 04:03 PM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental - South Charleston and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 9.

If you have any questions regarding this report, please feel free to contact me:

ADDRESS: 1740 Union Carbide Drive, South Charleston, WV, USA  
PHONE: +1 (304) 356-3168 FAX: +1 (304) 205-6262

Sincerely,

A handwritten signature in black ink that reads "Rebecca Kiser".

Electronically approved by: Rebecca Kiser

Rebecca Kiser  
Project Manager

### Report of Laboratory Analysis

Certificate No: WV: 385

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Environmental

[www.alsglobal.com](http://www.alsglobal.com)

RIGHT SOLUTIONS RIGHT PARTNER

11/22/2024

**Client:** Core Appalachia Operating, LLC  
**Project:** 005 CBM  
**Work Order:** 21091997

**Work Order Sample Summary**

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<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
21091997-01	005 CBM Grab	Water		9/21/2021 09:40	9/21/2021 16:03	<input type="checkbox"/>
21091997-01	005 CBM Grab	Water		9/21/2021 09:40	9/22/2021 09:00	<input type="checkbox"/>

---

**Client:** Core Appalachia Operating, LLC  
**Project:** 005 CBM  
**Work Order:** 21091997

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**Case Narrative**

Samples for the above noted Work Order were received on 09/21/2021. The attached "Sample Receipt Checklist" documents the status of custody seals, container integrity, preservation, and temperature compliance.

Samples were analyzed according to the analytical methodology previously transmitted in the "Work Order Acknowledgement". Methodologies are also documented in the "Analytical Result" section for each sample. Quality control results are listed in the "QC Report" section. Sample association for the reported quality control is located at the end of each batch summary. If applicable, results are appropriately qualified in the Analytical Result and QC Report sections. The "Qualifiers" section documents the various qualifiers, units, and acronyms utilized in reporting. A copy of the laboratory's scope of accreditation is available upon request.

With the following exceptions, all sample analyses achieved analytical criteria.

**Wet Chemistry:**

Batch R327207, Method A4500-H B-11, Sample 005 CBM Grab (21091997-01C): pH was received and analyzed outside of the holding time. Results should be considered estimated.

**Client:** Core Appalachia Operating, LLC  
**Project:** 005 CBM  
**WorkOrder:** 21091997

**QUALIFIERS,  
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
**	Estimated Value
a	Analyte is non-accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
Hr	BOD/CBOD - Sample was reset outside Hold Time, value should be considered estimated.
J	Analyte is present at an estimated concentration between the MDL and Report Limit
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

<u>Units Reported</u>	<u>Description</u>
mg/L	Milligrams per Liter
s.u.	Standard Units



**ALS Group, USA**

Date: 30-Sep-21

**Client:** Core Appalachia Operating, LLC  
**Project:** 005 CBM  
**Sample ID:** 005 CBM Grab  
**Collection Date:** 9/21/2021 09:40 AM

**Work Order:** 21091997  
**Lab ID:** 21091997-01  
**Matrix:** WATER

---

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PH (LABORATORY)							
			Method:A4500-H B-11				Analyst: B JL
pH (laboratory)	8.69	H	0	0.020	s.u.	1	9/21/2021 16:47

---

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

**Client:** Core Appalachia Operating, LLC  
**Work Order:** 21091997  
**Project:** 005 CBM

**QC BATCH REPORT**

Batch ID: **R327207** Instrument ID **STC-WC** Method: **A4500-H B-11**

<b>LCS</b>		Sample ID: <b>LCS-R327207-R327207</b>				Units: <b>s.u.</b>		Analysis Date: <b>9/21/2021 04:47 PM</b>			
Client ID:		Run ID: <b>STC-WC_210921D</b>				SeqNo: <b>7768275</b>		Prep Date:		DF: <b>1</b>	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH (laboratory)	3.99	0	0.020	4	0	99.8	90-110	0			

<b>DUP</b>		Sample ID: <b>21091995-03B DUP</b>				Units: <b>s.u.</b>		Analysis Date: <b>9/21/2021 04:47 PM</b>			
Client ID:		Run ID: <b>STC-WC_210921D</b>				SeqNo: <b>7768277</b>		Prep Date:		DF: <b>1</b>	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH (laboratory)	7.11	0	0.020	0	0	0	0-0	7.07	0.564	20	H

The following samples were analyzed in this batch:



ALS  
 1740 Union Carbide Drive  
 South Charleston, WV 25303  
 (Tel) 304.356.3168  
 (Fax) 304.205.6262

### Chain of Custody Form

Page      of       
**10159**

ALS  
 3352 128th Avenue  
 Holland, Michigan 49424  
 (Tel) 616.399.6070  
 (Fax) 616.399.6185

ALS Project Manager: \_\_\_\_\_

ALS Work Order #: **21091997**

Customer Information		Project Information		Parameter/Method Request for Analysis												
Purchase Order	DGOC	Project Name		A	dissolved: Fe, Al, Mn, Se											
Work Order		Project Number		B	Total: Ba, Ca, Mg, K, Na, Hg											
Company Name		Bill To Company		C	PH											
Send Report To	Josh Roberts	Invoice Attn.		D	Cl, SO4, TDS											
Address	414 Summers St.	Address		E												
City/State/Zip	Chas, WV 25301	City/State/Zip		F												
Phone	304-807-3882	Phone		G												
Fax		Fax		H												
e-Mail Address	JR Roberts@dgoc.com			I												
				J												

No.	Sample Description	Comp/Grab	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	005 CSM	G	9-21	9:40	W	2B	1	✓										
2	↓	↓	↓	↓	W	2B	1		✓									
3	↓	↓	↓	↓	W	2B	1			✓								
4	↓	↓	↓	↓	W	2B	1				✓							
5																		
6																		
7																		
8																		
9																		
10																		

Sample(s): Please Print & Sign *[Signature]* Shipment Method: \_\_\_\_\_ Turnaround Time in Business Days (BD):  Other  10 BD/STD  5 BD  3 BD  2 BD  1 BD Results Due Date: \_\_\_\_\_

Relinquished by: <i>[Signature]</i>	Date: 9-21	Time: 3:55	Received by: <i>[Signature]</i>	Date: 9/21/16	Time: 10:00	Temp: 40°C	Notes: pH out of hold
Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Temp:	
Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Temp:	
Relinquished by:	Date:	Time:	Received by (Laboratory):	Date:	Time:	Temp:	
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	Date:	Time:	Temp:	

Preservative Key: 1-HCl 2-HNO<sub>3</sub> 3-H<sub>2</sub>SO<sub>4</sub> 4-NaOH 5-Na<sub>2</sub>S<sub>2</sub>O<sub>5</sub> 6-NaHSO<sub>4</sub> 7-Other 8-4°C  
 Note: Any changes must be made in writing once samples and COC Form have been submitted to ALS  
 Copyright 2014 by ALS


11/22/2024

## Sample Receiving Checklist

Received by:	<u>Janet Smith</u>
Date/Time:	<u>9/21/21/1603</u>
Carrier Name:	<u>Client</u>
Shipping container/cooler in good condition?	<input checked="" type="radio"/> Yes / No / Not Present
Custody seals intact on shipping container/cooler?	<input checked="" type="radio"/> Yes / No / Not Present
Custody seals intact on sample bottles?	Yes / No / <input checked="" type="radio"/> Not Present
Chain of Custody present?	<input checked="" type="radio"/> Yes / No
COC signed when relinquished and received?	<input checked="" type="radio"/> Yes / No
COC agrees with sample labels?	<input checked="" type="radio"/> Yes / No
Samples in proper container/bottle?	<input checked="" type="radio"/> Yes / No
Sample containers intact?	<input checked="" type="radio"/> Yes / No
Sufficient sample volume for indicated test?	<input checked="" type="radio"/> Yes / No
All samples received within holding time?	Yes / <input checked="" type="radio"/> No
All sample temperatures verified to be in compliance?	<input checked="" type="radio"/> Yes / No
Temperature(s) (°C):	<u>40.2, 25.7C</u>
Thermometer(s):	<u>SN</u>
Sample(s) received on ice?	<input checked="" type="radio"/> Yes / No
Matrix/Matrices:	<u>Water</u>
Cooler(s)/Kit(s):	_____
Date/Time sample(s) sent to storage:	_____
Trip Blanks included? (for volatile analysis only)	Yes / No / <input checked="" type="radio"/> N/A
Water – VOA vials have zero headspace?	Yes / No / <input checked="" type="radio"/> No Vials
Water – pH acceptable upon receipt?	Yes / No / N/A
pH strip lot #: _____	<u>*not checked</u>
pH adjusted (note adjustments below)?	Yes / <input checked="" type="radio"/> No / N/A
pH adjusted by:	_____
Login Notes:	

pH out of hold

W661601E

 <p><b>ALS Environmental</b> 1740 Union Carbide Drive South Charleston WV 25303 Tel. +1 304 881 0437</p>	<p><b>CUSTODY SEAL</b></p> <p>Date: _____ Name: <u>Chris</u> Company: <u>ALS</u></p> <p>Time: <u>5:55</u></p>	<p>Seal Broken By: <u>JAS</u> Date: <u>9/21/21</u></p>
---	---	--





30-Sep-2021

Josh Roberts  
Core Appalachia Operating, LLC  
414 Summers Street  
Charleston, WV 25301

Re: **005 CBM**

Work Order: **21091997**

Dear Josh,

ALS Environmental received 1 sample on 21-Sep-2021 04:03 PM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental - Holland and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 14.

If you have any questions regarding this report, please feel free to contact me:

ADDRESS: 3352 128th Avenue, Holland, MI, USA  
PHONE: +1 (616) 399-6070 FAX: +1 (616) 399-6185

Sincerely,

A handwritten signature in cursive script that reads "Rebecca Kiser".

Electronically approved by: Rebecca Kiser

Rebecca Kiser  
Project Manager

### Report of Laboratory Analysis

Certificate No: WV: 355

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Environmental 

[www.alsglobal.com](http://www.alsglobal.com)

RIGHT SOLUTIONS RIGHT PARTNER

11/22/2024

**Client:** Core Appalachia Operating, LLC  
**Project:** 005 CBM  
**Work Order:** 21091997

**Work Order Sample Summary**

---

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
21091997-01	005 CBM Grab	Water		9/21/2021 09:40	9/21/2021 16:03	<input type="checkbox"/>
21091997-01	005 CBM Grab	Water		9/21/2021 09:40	9/22/2021 09:00	<input type="checkbox"/>

---

**Client:** Core Appalachia Operating, LLC  
**Project:** 005 CBM  
**Work Order:** 21091997

---

**Case Narrative**

Samples for the above noted Work Order were received on 09/22/2021. The attached "Sample Receipt Checklist" documents the status of custody seals, container integrity, preservation, and temperature compliance.

Samples were analyzed according to the analytical methodology previously transmitted in the "Work Order Acknowledgement". Methodologies are also documented in the "Analytical Result" section for each sample. Quality control results are listed in the "QC Report" section. Sample association for the reported quality control is located at the end of each batch summary. If applicable, results are appropriately qualified in the Analytical Result and QC Report sections. The "Qualifiers" section documents the various qualifiers, units, and acronyms utilized in reporting. A copy of the laboratory's scope of accreditation is available upon request.

With the following exceptions, all sample analyses achieved analytical criteria.

**Metals:**

No other deviations or anomalies were noted.

**Wet Chemistry:**

No other deviations or anomalies were noted.

**Client:** Core Appalachia Operating, LLC  
**Project:** 005 CBM  
**WorkOrder:** 21091997

**QUALIFIERS,  
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
**	Estimated Value
a	Analyte is non-accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
Hr	BOD/CBOD - Sample was reset outside Hold Time, value should be considered estimated.
J	Analyte is present at an estimated concentration between the MDL and Report Limit
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

<u>Units Reported</u>	<u>Description</u>
mg/L	Milligrams per Liter
s.u.	Standard Units

**ALS Group, USA**

Date: 30-Sep-21

**Client:** Core Appalachia Operating, LLC  
**Project:** 005 CBM  
**Sample ID:** 005 CBM Grab  
**Collection Date:** 9/21/2021 09:40 AM

**Work Order:** 21091997  
**Lab ID:** 21091997-01  
**Matrix:** WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<b>MERCURY BY CVAA</b>							
Mercury	U		0.00016	0.00020	mg/L	1	9/27/2021 13:41
			Method:SW7470A		Prep: SW7470 / 9/27/21		Analyst: MTW
<b>METALS BY ICP-MS</b>							
Barium	1.9		0.020	0.050	mg/L	10	9/30/2021 12:38
Calcium	12		0.25	0.50	mg/L	1	9/29/2021 19:23
Magnesium	4.5		0.050	0.20	mg/L	1	9/29/2021 19:23
Potassium	2.6		0.096	0.20	mg/L	1	9/29/2021 19:23
Sodium	690		1.8	2.0	mg/L	10	9/30/2021 12:38
			Method:SW6020B		Prep: SW3015A / 9/27/21		Analyst: STP
<b>METALS BY ICP-MS (DISSOLVED)</b>							
Aluminum	U		0.0080	0.010	mg/L	1	9/29/2021 19:21
Iron	U		0.050	0.080	mg/L	1	9/29/2021 19:21
Manganese	0.0074		0.0025	0.0050	mg/L	1	9/29/2021 19:21
Selenium	U		0.00048	0.0050	mg/L	1	9/29/2021 19:21
			Method:E300.0				Analyst: QTN
<b>ANIONS BY ION CHROMATOGRAPHY</b>							
Chloride	700		31	100	mg/L	100	9/23/2021 22:31
Sulfate	0.36	J	0.19	1.0	mg/L	1	9/24/2021 14:16
<b>TOTAL DISSOLVED SOLIDS</b>							
Total Dissolved Solids	1,800		110	150	mg/L	1	9/27/2021 15:46
			Method:A2540 C-11		Prep: FILTER / 9/23/21		Analyst: SRN

**Note:** See Qualifiers page for a list of qualifiers and their definitions.



**Client:** Core Appalachia Operating, LLC  
**Work Order:** 21091997  
**Project:** 005 CBM

**QC BATCH REPORT**

Batch ID: **184398** Instrument ID **HG4** Method: **SW7470A**

<b>MBLK</b>		Sample ID: <b>MBLK-184398-184398</b>				Units: <b>mg/L</b>		Analysis Date: <b>9/27/2021 01:06 PM</b>			
Client ID:		Run ID: <b>HG4_210927A</b>				SeqNo: <b>7786976</b>		Prep Date: <b>9/27/2021</b>		DF: <b>1</b>	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	U	0.00016	0.00020								

<b>LCS</b>		Sample ID: <b>LCS-184398-184398</b>				Units: <b>mg/L</b>		Analysis Date: <b>9/27/2021 01:08 PM</b>			
Client ID:		Run ID: <b>HG4_210927A</b>				SeqNo: <b>7786977</b>		Prep Date: <b>9/27/2021</b>		DF: <b>1</b>	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00225	0.00016	0.00020	0.002	0	112	80-120	0			

<b>MS</b>		Sample ID: <b>21092203-01AMS</b>				Units: <b>mg/L</b>		Analysis Date: <b>9/27/2021 01:57 PM</b>			
Client ID:		Run ID: <b>HG4_210927A</b>				SeqNo: <b>7787003</b>		Prep Date: <b>9/27/2021</b>		DF: <b>1</b>	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.002145	0.00016	0.00020	0.002	0.0001185	101	75-125	0			

<b>MSD</b>		Sample ID: <b>21092203-01AMSD</b>				Units: <b>mg/L</b>		Analysis Date: <b>9/27/2021 01:58 PM</b>			
Client ID:		Run ID: <b>HG4_210927A</b>				SeqNo: <b>7787004</b>		Prep Date: <b>9/27/2021</b>		DF: <b>1</b>	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00213	0.00016	0.00020	0.002	0.0001185	101	75-125	0.002145	0.702	20	

The following samples were analyzed in this batch: 21091997-01B

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Core Appalachia Operating, LLC  
 Work Order: 21091997  
 Project: 005 CBM

**QC BATCH REPORT**

Batch ID: 184442 Instrument ID ICPMS4 Method: SW6020B

MBLK		Sample ID: MBLK-184442-184442			Units: mg/L		Analysis Date: 9/29/2021 03:26 PM				
Client ID:		Run ID: ICPMS4_210929A			SeqNo: 7795846		Prep Date: 9/27/2021		DF: 1		
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	U	0.008	0.010								
Barium	U	0.002	0.0050								
Calcium	U	0.25	0.50								
Iron	U	0.05	0.080								
Magnesium	U	0.05	0.20								
Manganese	U	0.0025	0.0050								
Potassium	U	0.096	0.20								
Selenium	U	0.00048	0.0050								
Sodium	U	0.18	0.20								

LCS		Sample ID: LCS-184442-184442			Units: mg/L		Analysis Date: 9/29/2021 03:27 PM				
Client ID:		Run ID: ICPMS4_210929A			SeqNo: 7795847		Prep Date: 9/27/2021		DF: 1		
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1028	0.008	0.010	0.1	0	103	80-120	0			
Barium	0.09856	0.002	0.0050	0.1	0	98.6	80-120	0			
Calcium	10.22	0.25	0.50	10	0	102	80-120	0			
Iron	10.27	0.05	0.080	10	0	103	80-120	0			
Magnesium	10.5	0.05	0.20	10	0	105	80-120	0			
Manganese	0.1001	0.0025	0.0050	0.1	0	100	80-120	0			
Potassium	10.29	0.096	0.20	10	0	103	80-120	0			
Selenium	0.1006	0.00048	0.0050	0.1	0	101	80-120	0			
Sodium	10.69	0.18	0.20	10	0	107	80-120	0			

MS		Sample ID: 21091857-18BMS			Units: mg/L		Analysis Date: 9/29/2021 07:14 PM				
Client ID:		Run ID: ICPMS4_210929A			SeqNo: 7796873		Prep Date: 9/27/2021		DF: 1		
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1042	0.008	0.010	0.1	0.009043	95.2	75-125	0			
Barium	0.1439	0.002	0.0050	0.1	0.04349	100	75-125	0			
Calcium	95.64	0.25	0.50	10	89.32	63.3	75-125	0			SO
Iron	8.832	0.05	0.080	10	0.06693	87.7	75-125	0			
Magnesium	27.88	0.05	0.20	10	19.27	86.1	75-125	0			
Manganese	0.2809	0.0025	0.0050	0.1	0.1995	81.4	75-125	0			
Potassium	19.74	0.096	0.20	10	10.44	92.9	75-125	0			
Selenium	0.09593	0.00048	0.0050	0.1	0.001069	94.9	75-125	0			
Sodium	256.4	0.18	0.20	10	258	-16.7	75-125	0			SEO

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Core Appalachia Operating, LLC  
**Work Order:** 21091997  
**Project:** 005 CBM

## QC BATCH REPORT

Batch ID: **184442**      Instrument ID **ICPMS4**      Method: **SW6020B**

MSD		Sample ID: <b>21091857-18BMSD</b>				Units: mg/L		Analysis Date: <b>9/29/2021 07:16 PM</b>			
Client ID:		Run ID: <b>ICPMS4_210929A</b>				SeqNo: <b>7796874</b>		Prep Date: <b>9/27/2021</b>		DF: <b>1</b>	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1265	0.008	0.010	0.1	0.009043	117	75-125	0.1042	19.3	20	
Barium	0.1443	0.002	0.0050	0.1	0.04349	101	75-125	0.1439	0.266	20	
Calcium	95.57	0.25	0.50	10	89.32	62.5	75-125	95.64	0.0826	20	SO
Iron	8.907	0.05	0.080	10	0.06693	88.4	75-125	8.832	0.842	20	
Magnesium	28.08	0.05	0.20	10	19.27	88.1	75-125	27.88	0.685	20	
Manganese	0.2791	0.0025	0.0050	0.1	0.1995	79.6	75-125	0.2809	0.674	20	
Potassium	19.89	0.096	0.20	10	10.44	94.5	75-125	19.74	0.762	20	
Selenium	0.09753	0.00048	0.0050	0.1	0.001069	96.5	75-125	0.09593	1.66	20	
Sodium	258.8	0.18	0.20	10	258	7.84	75-125	256.4	0.954	20	SEO

The following samples were analyzed in this batch:

21091997-01A      21091997-01B

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Core Appalachia Operating, LLC  
 Work Order: 21091997  
 Project: 005 CBM

# QC BATCH REPORT

Batch ID: 184276 Instrument ID TDS Method: A2540 C-11

MBLK		Sample ID: MBLK-184276-184276				Units: mg/L		Analysis Date: 9/27/2021 03:46 PM			
Client ID:		Run ID: TDS_210927D				SeqNo: 7786516		Prep Date: 9/23/2021		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids	U	22	30								

LCS		Sample ID: LCS-184276-184276				Units: mg/L		Analysis Date: 9/27/2021 03:46 PM			
Client ID:		Run ID: TDS_210927D				SeqNo: 7786515		Prep Date: 9/23/2021		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids	512	22	30	495	0	103	85-109	0			

DUP		Sample ID: 21092027-02A DUP				Units: mg/L		Analysis Date: 9/27/2021 03:46 PM			
Client ID:		Run ID: TDS_210927D				SeqNo: 7786510		Prep Date: 9/23/2021		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids	1913	74	100	0	0	0	0-0	1893	1.05	10	

DUP		Sample ID: 21092270-03A DUP				Units: mg/L		Analysis Date: 9/27/2021 03:46 PM			
Client ID:		Run ID: TDS_210927D				SeqNo: 7786514		Prep Date: 9/23/2021		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids	1113	74	100	0	0	0	0-0	1080	3.04	10	

The following samples were analyzed in this batch:

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Core Appalachia Operating, LLC  
 Work Order: 21091997  
 Project: 005 CBM

# QC BATCH REPORT

Batch ID: **R327401** Instrument ID **IC3** Method: **E300.0**

MBLK		Sample ID: <b>MBLK-R327401</b>				Units: <b>mg/L</b>		Analysis Date: <b>9/23/2021 10:46 AM</b>			
Client ID:		Run ID: <b>IC3_210923A</b>				SeqNo: <b>7776445</b>		Prep Date:		DF: <b>1</b>	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	U	0.31	1.0								

LCS		Sample ID: <b>LCS-R327401</b>				Units: <b>mg/L</b>		Analysis Date: <b>9/23/2021 11:32 AM</b>			
Client ID:		Run ID: <b>IC3_210923A</b>				SeqNo: <b>7776448</b>		Prep Date:		DF: <b>1</b>	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	9.814	0.31	1.0	10	0	98.1	90-110	0			

LCS		Sample ID: <b>LCS-R327401</b>				Units: <b>mg/L</b>		Analysis Date: <b>9/23/2021 06:42 PM</b>			
Client ID:		Run ID: <b>IC3_210923A</b>				SeqNo: <b>7776476</b>		Prep Date:		DF: <b>1</b>	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	9.854	0.31	1.0	10	0	98.5	90-110	0			

MS		Sample ID: <b>21091719-03B MS</b>				Units: <b>mg/L</b>		Analysis Date: <b>9/23/2021 12:17 PM</b>			
Client ID:		Run ID: <b>IC3_210923A</b>				SeqNo: <b>7776451</b>		Prep Date:		DF: <b>20</b>	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	236.4	6.2	20	200	48.36	94	80-120	0			

MS		Sample ID: <b>21091880-04B MS</b>				Units: <b>mg/L</b>		Analysis Date: <b>9/23/2021 03:22 PM</b>			
Client ID:		Run ID: <b>IC3_210923A</b>				SeqNo: <b>7776463</b>		Prep Date:		DF: <b>10</b>	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	144.5	3.1	10	100	43.85	101	80-120	0			

MS		Sample ID: <b>21091880-12B MS</b>				Units: <b>mg/L</b>		Analysis Date: <b>9/23/2021 07:28 PM</b>			
Client ID:		Run ID: <b>IC3_210923A</b>				SeqNo: <b>7776479</b>		Prep Date:		DF: <b>10</b>	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	178.2	3.1	10	100	69.28	109	80-120	0			

MS		Sample ID: <b>21091997-01D MS</b>				Units: <b>mg/L</b>		Analysis Date: <b>9/23/2021 10:46 PM</b>			
Client ID: <b>005 CBM Grab</b>		Run ID: <b>IC3_210923A</b>				SeqNo: <b>7776492</b>		Prep Date:		DF: <b>100</b>	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	1687	31	100	1000	698.8	98.8	80-120	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Core Appalachia Operating, LLC  
 Work Order: 21091997  
 Project: 005 CBM

## QC BATCH REPORT

Batch ID: R327401 Instrument ID IC3 Method: E300.0

MSD		Sample ID: 21091719-03B MSD				Units: mg/L		Analysis Date: 9/23/2021 12:33 PM			
Client ID:		Run ID: IC3_210923A				SeqNo: 7776452		Prep Date:		DF: 20	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	235.5	6.2	20	200	48.36	93.6	80-120	236.4	0.375	20	

MSD		Sample ID: 21091880-04B MSD				Units: mg/L		Analysis Date: 9/23/2021 03:38 PM			
Client ID:		Run ID: IC3_210923A				SeqNo: 7776464		Prep Date:		DF: 10	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	144.9	3.1	10	100	43.85	101	80-120	144.5	0.299	20	

MSD		Sample ID: 21091880-12B MSD				Units: mg/L		Analysis Date: 9/23/2021 07:43 PM			
Client ID:		Run ID: IC3_210923A				SeqNo: 7776480		Prep Date:		DF: 10	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	177.7	3.1	10	100	69.28	108	80-120	178.2	0.282	20	

MSD		Sample ID: 21091997-01D MSD				Units: mg/L		Analysis Date: 9/23/2021 11:01 PM			
Client ID: 005 CBM Grab		Run ID: IC3_210923A				SeqNo: 7776493		Prep Date:		DF: 100	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	1688	31	100	1000	698.8	98.9	80-120	1687	0.0433	20	

The following samples were analyzed in this batch:

21091997-01D

Note: See Qualifiers Page for a list of Qualifiers and their explanation.



Client: Core Appalachia Operating, LLC  
 Work Order: 21091997  
 Project: 005 CBM

# QC BATCH REPORT

Batch ID: R327499 Instrument ID IC3 Method: E300.0

MBLK		Sample ID: MBLK-R327499				Units: mg/L		Analysis Date: 9/24/2021 10:41 AM			
Client ID:		Run ID: IC3_210924A				SeqNo: 7780474		Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfate	U	0.19	1.0								

LCS		Sample ID: LCS-R327499				Units: mg/L		Analysis Date: 9/24/2021 11:28 AM			
Client ID:		Run ID: IC3_210924A				SeqNo: 7780477		Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfate	10.22	0.19	1.0	10	0	102	90-110	0			

MS		Sample ID: 21092215-02B MS				Units: mg/L		Analysis Date: 9/24/2021 12:14 PM			
Client ID:		Run ID: IC3_210924A				SeqNo: 7780480		Prep Date:		DF: 100	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfate	1488	19	100	1000	527	96.1	80-120	0			

MS		Sample ID: 21091997-01D MS				Units: mg/L		Analysis Date: 9/24/2021 03:17 PM			
Client ID: 005 CBM Grab		Run ID: IC3_210924A				SeqNo: 7780492		Prep Date:		DF: 10	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfate	96.21	1.9	10	100	0	96.2	80-120	0			

MSD		Sample ID: 21092215-02B MSD				Units: mg/L		Analysis Date: 9/24/2021 12:29 PM			
Client ID:		Run ID: IC3_210924A				SeqNo: 7780481		Prep Date:		DF: 100	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfate	1489	19	100	1000	527	96.2	80-120	1488	0.0497	20	

MSD		Sample ID: 21091997-01D MSD				Units: mg/L		Analysis Date: 9/24/2021 03:33 PM			
Client ID: 005 CBM Grab		Run ID: IC3_210924A				SeqNo: 7780493		Prep Date:		DF: 10	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfate	96.25	1.9	10	100	0	96.3	80-120	96.21	0.0416	20	

The following samples were analyzed in this batch:

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**ALS Environmental**  
 ALS Environmental - Holland  
 3352 128th Avenue  
 Holland, MI 49424  
 TEL: (616) 399-8070  
 FAX: (616) 399-8185  
 Acct #: \_\_\_\_\_  
 Subcontractor: \_\_\_\_\_

**CHAIN-OF-CUSTODY RECORD**

Date: 21-Sep-21  
 COC ID: 1777  
 Due Date: \_\_\_\_\_

Customer Information		Project Information		Collection Date 24hr											
ALS Sample ID	Client Sample ID	Matrix	Collection Date 24hr	A	B	C	D	E	F	G	H	I	J		
21091987-01A	005 CBM Grab	Water	21/Sep/2021 9:40				X								
21091987-01B	005 CBM Grab	Water	21/Sep/2021 9:40				X								
21091987-01D	005 CBM Grab	Water	21/Sep/2021 9:40				X								
Purchase Order		Project Name		ALS Group USA, Corp											
Work Order		Project Number		ALS Group USA, Corp											
Company Name		Bill To Company		ALS Group USA, Corp											
Send Report To		Inv Attn		Rebecca Kiser											
Address		Address		1740 Union Carbide Dr											
City/State/Zip		City/State/Zip		So Charleston, WV 25303											
Phone		Phone		(304) 356-3168											
Fax		Fax													
Email Address		Email CC		rebecca.kiser@alsglobal.com											
Total Dissolved Solids (A2540 C-11)		Project Information		21091997											
Arsens by Ion Chromatography (E300.0)		Project Information		21091997											
Metals by ICP-MS (SW6020B)		Project Information		21091997											
Metals by ICP-MS (dissolved) (SW6020B)		Project Information		21091997											
Mercury by CVA4 (SW7470A)		Project Information		21091997											
Address		Address		1740 Union Carbide Dr											
City/State/Zip		City/State/Zip		So Charleston, WV 25303											
Phone		Phone		(304) 356-3168											
Fax		Fax													
Email Address		Email CC		rebecca.kiser@alsglobal.com											

Comments: WV Samples

Received by: *[Signature]* Date/Time: 9/21/21 11:00

Received by: *[Signature]* Date/Time: 9/21/21 9:40

Received by: *[Signature]* Date/Time: 9/21/21 9:40

Report/QC Level: \_\_\_\_\_

Cooler IDs: *ALSTM*

*6.0-c*

*1P3 PH3*



Sample Receipt Checklist

Client Name: CORE APPALACHIA

Date/Time Received: 21-Sep-21 16:03

Work Order: 21091997

Received by: DS

Checklist completed by Diane Shaw 23-Sep-21
eSignature Date

Reviewed by: Rebecca Kiser 27-Sep-21
eSignature Date

Matrices: Water

Carrier name: FedEx

Shipping container/cooler in good condition? Yes [checked] No [ ] Not Present [ ]
Custody seals intact on shipping container/cooler? Yes [checked] No [ ] Not Present [ ]
Custody seals intact on sample bottles? Yes [ ] No [ ] Not Present [checked]
Chain of custody present? Yes [checked] No [ ]
Chain of custody signed when relinquished and received? Yes [checked] No [ ]
Chain of custody agrees with sample labels? Yes [checked] No [ ]
Samples in proper container/bottle? Yes [checked] No [ ]
Sample containers intact? Yes [checked] No [ ]
Sufficient sample volume for indicated test? Yes [checked] No [ ]
All samples received within holding time? Yes [checked] No [ ]
Container/Temp Blank temperature in compliance? Yes [checked] No [ ]
Sample(s) received on ice? Yes [checked] No [ ]
Temperature(s)/Thermometer(s): <6.0 c IR3
Cooler(s)/Kit(s):
Date/Time sample(s) sent to storage: 9/23/2021 8:46:18 AM
Water - VOA vials have zero headspace? Yes [ ] No [ ] No VOA vials submitted [checked]
Water - pH acceptable upon receipt? Yes [checked] No [ ] N/A [ ]
pH adjusted? Yes [ ] No [checked] N/A [ ]
pH adjusted by:

Login Notes:

Client Contacted: Date Contacted: Person Contacted:
Contacted By: Regarding:

Comments:

CorrectiveAction:



DIVERSIFIED GAS & OIL  
CORPORATION

## **Soil Sample Background**

11/22/2024

**ALS Group, USA**

Date: 30-Sep-21

**Client:** Core Appalachia Operating, LLC  
**Project:** WPP-005  
**Sample ID:** WPP-005 Soil #2 Background Grab  
**Collection Date:** 9/21/2021 09:30 AM

**Work Order:** 21091995  
**Lab ID:** 21091995-02  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<b>MERCURY BY CVAA</b>							
			Method:SW7471B		Prep: SW7471 / 9/27/21		Analyst: <b>MTW</b>
Mercury	0.090		0.026	0.038	mg/Kg-dry	1	9/27/2021 17:47
<b>METALS BY ICP-MS</b>							
			Method:SW6020B		Prep: SW3050B / 9/25/21		Analyst: <b>STP</b>
Aluminum	2,400		480	600	mg/Kg-dry	100	9/27/2021 16:45
Barium	89		0.69	0.75	mg/Kg-dry	1	9/26/2021 21:52
Calcium	1,700		36	75	mg/Kg-dry	1	9/26/2021 21:52
Iron	5,300		24	30	mg/Kg-dry	1	9/26/2021 21:52
Magnesium	320		21	30	mg/Kg-dry	1	9/26/2021 21:52
Manganese	160		0.63	0.75	mg/Kg-dry	1	9/26/2021 21:52
Potassium	710		13	30	mg/Kg-dry	1	9/26/2021 21:52
Selenium	U		0.69	0.75	mg/Kg-dry	1	9/26/2021 21:52
Sodium	59		40	45	mg/Kg-dry	1	9/26/2021 21:52
<b>ANIONS BY ION CHROMATOGRAPHY</b>							
			Method:SW9056A		Prep: EXTRACT / 9/27/21		Analyst: <b>QTN</b>
Chloride	9.5	J	6.3	20	mg/L-dry	1	9/27/2021 18:14
Sulfate	3.2	J	1.1	20	mg/L-dry	1	9/27/2021 18:14
<b>MOISTURE</b>							
			Method:SW3550C				Analyst: <b>ALG</b>
Moisture	51		0.10	0.10	% of sample	1	9/24/2021 15:34

**Note:** See Qualifiers page for a list of qualifiers and their definitions.



DIVERSIFIED GAS & OIL  
CORPORATION

**Soil Sample**

11/22/2024

**ALS Group, USA**

Date: 30-Sep-21

**Client:** Core Appalachia Operating, LLC  
**Project:** WPP-005  
**Sample ID:** WPP-005 Soil #1 On-site Grab  
**Collection Date:** 9/21/2021 09:30 AM

**Work Order:** 21091995  
**Lab ID:** 21091995-01  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<b>MERCURY BY CVAA</b>							
			Method:SW7471B		Prep: SW7471 / 9/27/21		Analyst: <b>MTW</b>
Mercury	0.042		0.018	0.026	mg/Kg-dry	1	9/27/2021 17:45
<b>METALS BY ICP-MS</b>							
			Method:SW6020B		Prep: SW3050B / 9/25/21		Analyst: <b>STP</b>
Aluminum	5,900		310	390	mg/Kg-dry	100	9/27/2021 16:42
Barium	330		4.5	4.9	mg/Kg-dry	10	9/27/2021 16:43
Calcium	1,200		23	49	mg/Kg-dry	1	9/26/2021 21:50
Iron	11,000		16	20	mg/Kg-dry	1	9/26/2021 21:50
Magnesium	440		14	20	mg/Kg-dry	1	9/26/2021 21:50
Manganese	220		4.1	4.9	mg/Kg-dry	10	9/27/2021 16:43
Potassium	700		8.2	20	mg/Kg-dry	1	9/26/2021 21:50
Selenium	U		0.45	0.49	mg/Kg-dry	1	9/26/2021 21:50
Sodium	U		26	29	mg/Kg-dry	1	9/26/2021 21:50
<b>ANIONS BY ION CHROMATOGRAPHY</b>							
			Method:SW9056A		Prep: EXTRACT / 9/27/21		Analyst: <b>QTN</b>
Chloride	7.9	J	4.4	14	mg/L-dry	1	9/27/2021 17:59
Sulfate	2.4	J	0.80	14	mg/L-dry	1	9/27/2021 17:59
<b>MOISTURE</b>							
			Method:SW3550C				Analyst: <b>ALG</b>
Moisture	29		0.10	0.10	% of sample	1	9/24/2021 15:34

**Note:** See Qualifiers page for a list of qualifiers and their definitions.



30-Sep-2021

Josh Roberts  
Core Appalachia Operating, LLC  
414 Summers Street  
Charleston, WV 25301

Re: **WPP-005**

Work Order: **21091995**

Dear Josh,

ALS Environmental received 3 samples on 21-Sep-2021 04:03 PM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental - South Charleston and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 13.

If you have any questions regarding this report, please feel free to contact me:

ADDRESS: 1740 Union Carbide Drive, South Charleston, WV, USA  
PHONE: +1 (304) 356-3168 FAX: +1 (304) 205-6262

Sincerely,

A handwritten signature in black ink that reads "Rebecca Kiser".

Electronically approved by: Rebecca Kiser

Rebecca Kiser  
Project Manager

### Report of Laboratory Analysis

Certificate No: WV: 385

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Environmental 

[www.alsglobal.com](http://www.alsglobal.com)

RIGHT SOLUTIONS RIGHT PARTNER

11/22/2024

**Client:** Core Appalachia Operating, LLC  
**Project:** WPP-005  
**Work Order:** 21091995

**Work Order Sample Summary**

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
21091995-01	WPP-005 Soil #1 On-site Grab	Soil		9/21/2021 09:30	9/22/2021 09:00	<input type="checkbox"/>
21091995-02	WPP-005 Soil #2 Background Grab	Soil		9/21/2021 09:30	9/22/2021 09:00	<input type="checkbox"/>
21091995-03	WPP-005-Surface #1 Grab	Water		9/21/2021 09:40	9/21/2021 16:03	<input type="checkbox"/>
21091995-03	WPP-005-Surface #1 Grab	Water		9/21/2021 09:40	9/22/2021 09:00	<input type="checkbox"/>



---

**Client:** Core Appalachia Operating, LLC  
**Project:** WPP-005  
**Work Order:** 21091995

---

**Case Narrative**

Samples for the above noted Work Order were received on 09/21/2021. The attached "Sample Receipt Checklist" documents the status of custody seals, container integrity, preservation, and temperature compliance.

Samples were analyzed according to the analytical methodology previously transmitted in the "Work Order Acknowledgement". Methodologies are also documented in the "Analytical Result" section for each sample. Quality control results are listed in the "QC Report" section. Sample association for the reported quality control is located at the end of each batch summary. If applicable, results are appropriately qualified in the Analytical Result and QC Report sections. The "Qualifiers" section documents the various qualifiers, units, and acronyms utilized in reporting. A copy of the laboratory's scope of accreditation is available upon request.

With the following exceptions, all sample analyses achieved analytical criteria.

**Wet Chemistry:**

Batch R327207, Method A4500-H B-11, Sample WPP-005-Surface #1 Grab (21091995-03B): pH was received and analyzed outside of the holding time at the request of the client. Results should be considered estimated.

---

**Client:** Core Appalachia Operating, LLC  
**Project:** WPP-005  
**WorkOrder:** 21091995

**QUALIFIERS,  
ACRONYMS, UNITS**

---

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
**	Estimated Value
a	Analyte is non-accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
Hr	BOD/CBOD - Sample was reset outside Hold Time, value should be considered estimated.
J	Analyte is present at an estimated concentration between the MDL and Report Limit
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

<u>Units Reported</u>	<u>Description</u>
% of sample	Percent of Sample
mg/Kg-dry	Milligrams per Kilogram Dry Weight
mg/L	Milligrams per Liter
s.u.	Standard Units

**ALS Group, USA**

Date: 30-Sep-21

Client: Core Appalachia Operating, LLC  
Project: WPP-005  
Sample ID: WPP-005 Soil #1 On-site Grab  
Collection Date: 9/21/2021 09:30 AM

Work Order: 21091995  
Lab ID: 21091995-01  
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PH							
			Method:SW9045D				Analyst: MLH
pH	5.87		0	0.10	s.u.	1	9/21/2021 16:40

Note: See Qualifiers page for a list of qualifiers and their definitions.

**ALS Group, USA**

Date: 30-Sep-21

**Client:** Core Appalachia Operating, LLC  
**Project:** WPP-005  
**Sample ID:** WPP-005 Soil #2 Background Grab  
**Collection Date:** 9/21/2021 09:30 AM

**Work Order:** 21091995  
**Lab ID:** 21091995-02  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PH			Method:SW9045D				Analyst: MLH
pH	3.89		0	0.10	s.u.	1	9/21/2021 16:40

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

**ALS Group, USA**

**Date:** 30-Sep-21

**Client:** Core Appalachia Operating, LLC  
**Project:** WPP-005  
**Sample ID:** WPP-005-Surface #1 Grab  
**Collection Date:** 9/21/2021 09:40 AM

**Work Order:** 21091995  
**Lab ID:** 21091995-03  
**Matrix:** WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PH (LABORATORY)							
pH (laboratory)	7.07	H	0	0.020	s.u.	1	9/21/2021 16:47

Method:A4500-H B-11

Analyst: BJL

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

Client: Core Appalachia Operating, LLC  
 Work Order: 21091995  
 Project: WPP-005

**QC BATCH REPORT**

Batch ID: **R327205** Instrument ID **STC-WC** Method: **SW9045D**

<b>LCS</b>		Sample ID: <b>LCS-R327205-R327205</b>				Units: <b>s.u.</b>		Analysis Date: <b>9/21/2021 03:55 PM</b>			
Client ID:		Run ID: <b>STC-WC_210921C</b>				SeqNo: <b>7768232</b>		Prep Date:		DF: <b>1</b>	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	3.96	0	0.10	4	0	99	90-110	0			

<b>DUP</b>		Sample ID: <b>21091951-01A DUP</b>				Units: <b>s.u.</b>		Analysis Date: <b>9/21/2021 03:55 PM</b>			
Client ID:		Run ID: <b>STC-WC_210921C</b>				SeqNo: <b>7768234</b>		Prep Date:		DF: <b>1</b>	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	3.83	0	0.10	0	0	0	0-0	3.73	2.65	20	

<b>DUP</b>		Sample ID: <b>21091995-01A DUP</b>				Units: <b>s.u.</b>		Analysis Date: <b>9/21/2021 04:40 PM</b>			
Client ID: <b>WPP-005 Soil #1 On-site Grab</b>		Run ID: <b>STC-WC_210921C</b>				SeqNo: <b>7768238</b>		Prep Date:		DF: <b>1</b>	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	5.83	0	0.10	0	0	0	0-0	5.87	0.684	20	

The following samples were analyzed in this batch:

21091995-01A	21091995-02A
--------------	--------------



Client: Core Appalachia Operating, LLC  
 Work Order: 21091995  
 Project: WPP-005

## QC BATCH REPORT

Batch ID: R327207 Instrument ID STC-WC Method: A4500-H B-11

LCS		Sample ID: LCS-R327207-R327207				Units: s.u.		Analysis Date: 9/21/2021 04:47 PM			
Client ID:		Run ID: STC-WC_210921D				SeqNo: 7768275		Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH (laboratory)	3.99	0	0.020	4	0	99.8	90-110	0			

DUP		Sample ID: 21091995-03B DUP				Units: s.u.		Analysis Date: 9/21/2021 04:47 PM			
Client ID: WPP-005-Surface #1 Grab		Run ID: STC-WC_210921D				SeqNo: 7768277		Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH (laboratory)	7.11	0	0.020	0	0	0	0-0	7.07	0.564	20	H

The following samples were analyzed in this batch:

21091995-03B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.



**ALS**  
 1740 Union Carbide Drive  
 South Charleston, WV 25303  
 (Tel) 304.356.3168  
 (Fax) 304.205.6262

**Chain of Custody Form**

Page \_\_\_\_\_ of \_\_\_\_\_  
**10160**

**ALS**  
 3352 128th Avenue  
 Holland, Michigan 49424  
 (Tel) 616.399.6070  
 (Fax) 616.399.6185

ALS Project Manager:

ALS Work Order #: **21091995**

Customer Information			Project Information					Parameter/Method Request for Analysis												
Purchase Order	Project Name		A	PH, Cl, SO <sub>4</sub> , Total Fe, Al, Mn, Se, Na, K, Ba, Ca, Mg, Hg																
Work Order	Project Number		B	Dissolved: Fe, Al, Mn, Se; Hg																
Company Name	Bill To Company		C	pH																
Send Report To	Invoice Attn.		D	Total: Na, K, Ba, Ca, Mg																
Address	Address		E	Cl, SO <sub>4</sub> , TDS																
City/State/Zip	City/State/Zip		F																	
Phone	Phone		G																	
Fax	Fax		H																	
e-Mail Address	e-Mail Address		I																	
			J																	
No.	Sample Description	Comp/Grab	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold		
1	WPP-COCS Soil #1 on-site	Grab	9/21/21	9:30am	S	7/8	1	-												
2	WPP-COCS Soil #2 Backyard				S	7/8	1	-												
3	WPP-COCS - Surface #1			9:40am	W		2		-	-	-	-								
4	WPP-COCS - Surface #2				W		2		-	-	-	-								
5	LAB sample																			
6	not enough water																			
7																				
8																				
9																				
10																				

pH 8.02

Sampler(s) Please Print & Sign: **HAD ARMICHAH**

Shipment Method: \_\_\_\_\_ Turnaround Time in Business Days (BD):  10 BD (STL)  5 BD  3 BD  2 BD  1 BD

Results Due Date: \_\_\_\_\_

Relinquished by: **[Signature]** Date: **9-21** Time: **3:55** Received by: **[Signature]** Date: **9/21/21** Time: **11:03** Temp: **26°C** Notes: **Water pH only hold**

Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received by: \_\_\_\_\_ Temp: \_\_\_\_\_

Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received by (Laboratory): \_\_\_\_\_

Logged by (Laboratory): \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Checked by (Laboratory): \_\_\_\_\_

Preservative Key: 1-HCl 2-HNO<sub>3</sub> 3-H<sub>2</sub>SO<sub>4</sub> 4-NaOH 5-Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> 6-NaHSO<sub>4</sub> 7-Other 8-4°C

QC Package: (Check Box Below)  
 Level II: Standard QC  
 Level III: Standard QC + Raw Data  
 Level IV: SW846 Methods/CLP  
 Other: \_\_\_\_\_

Note: Any changes must be made in writing once samples and COC Form have been submitted to ALS

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11/22/2024

### Sample Receiving Checklist

Received by: Janet Smith

Date/Time: 9/21/21 1603

Carrier Name: Client

Shipping container/cooler in good condition? Yes / No / Not Present

Custody seals intact on shipping container/cooler? Yes / No / Not Present

Custody seals intact on sample bottles? Yes / No / Not Present

Chain of Custody present? Yes / No

COC signed when relinquished and received? Yes / No

COC agrees with sample labels? Yes / No

Samples in proper container/bottle? Yes / No

Sample containers intact? Yes / No

Sufficient sample volume for indicated test? Yes / No

All samples received within holding time? Yes / No

All sample temperatures verified to be in compliance? Yes / No

Temperature(s) (°C): < 10°C As 7C

Thermometer(s): SR

Sample(s) received on ice? Yes / No

Matrix/Matrices: Water/soil

Cooler(s)/Kit(s): \_\_\_\_\_

Date/Time sample(s) sent to storage: \_\_\_\_\_

Trip Blanks included? (for volatile analysis only) Yes / No / N/A

Water – VOA vials have zero headspace? Yes / No / No Vials

Water – pH acceptable upon receipt? Yes / No / N/A

pH strip lot #: \_\_\_\_\_ \*not checked

pH adjusted (note adjustments below)? Yes / No / N/A

pH adjusted by: \_\_\_\_\_

Login Notes:

Water pH out of hold.

21091995

<b>ALS Environmental</b> 1740 Union Carbide Drive South Charleston WV 25303 Tel. +1 304 881 0437	
<b>CUSTODY SEAL</b>	
Date: _____	Time: _____
Name: <u>John Deak</u>	Company: _____
Seal Broken By: <u>JD</u>	Date: <u>9/1/21</u>



30-Sep-2021

Josh Roberts  
Core Appalachia Operating, LLC  
414 Summers Street  
Charleston, WV 25301

Re: **WPP-005**

Work Order: **21091995**

Dear Josh,

ALS Environmental received 3 samples on 21-Sep-2021 04:03 PM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental - Holland and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 24.

If you have any questions regarding this report, please feel free to contact me:

ADDRESS: 3352 128th Avenue, Holland, MI, USA  
PHONE: +1 (616) 399-6070 FAX: +1 (616) 399-6185

Sincerely,

A handwritten signature in black ink that reads "Rebecca Kiser".

Electronically approved by: Rebecca Kiser

Rebecca Kiser  
Project Manager

### Report of Laboratory Analysis

Certificate No: WV: 355

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Environmental

[www.alsglobal.com](http://www.alsglobal.com)

RIGHT SOLUTIONS RIGHT PARTNER

11/22/2024

**Client:** Core Appalachia Operating, LLC  
**Project:** WPP-005  
**Work Order:** 21091995

**Work Order Sample Summary**

---

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
21091995-01	WPP-005 Soil #1 On-site Grab	Soil		9/21/2021 09:30	9/22/2021 09:00	<input type="checkbox"/>
21091995-02	WPP-005 Soil #2 Background Grab	Soil		9/21/2021 09:30	9/22/2021 09:00	<input type="checkbox"/>
21091995-03	WPP-005-Surface #1 Grab	Water		9/21/2021 09:40	9/21/2021 16:03	<input type="checkbox"/>
21091995-03	WPP-005-Surface #1 Grab	Water		9/21/2021 09:40	9/22/2021 09:00	<input type="checkbox"/>

---

**Client:** Core Appalachia Operating, LLC  
**Project:** WPP-005  
**Work Order:** 21091995

---

**Case Narrative**

Samples for the above noted Work Order were received on 09/22/2021. The attached "Sample Receipt Checklist" documents the status of custody seals, container integrity, preservation, and temperature compliance.

Samples were analyzed according to the analytical methodology previously transmitted in the "Work Order Acknowledgement". Methodologies are also documented in the "Analytical Result" section for each sample. Quality control results are listed in the "QC Report" section. Sample association for the reported quality control is located at the end of each batch summary. If applicable, results are appropriately qualified in the Analytical Result and QC Report sections. The "Qualifiers" section documents the various qualifiers, units, and acronyms utilized in reporting. A copy of the laboratory's scope of accreditation is available upon request.

With the following exceptions, all sample analyses achieved analytical criteria.

**Metals:**

No other deviations or anomalies were noted.

**Wet Chemistry:**

No other deviations or anomalies were noted.



---

**Client:** Core Appalachia Operating, LLC  
**Project:** WPP-005  
**WorkOrder:** 21091995

---

**QUALIFIERS,  
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
**	Estimated Value
a	Analyte is non-accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
Hr	BOD/CBOD - Sample was reset outside Hold Time, value should be considered estimated.
J	Analyte is present at an estimated concentration between the MDL and Report Limit
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

<u>Units Reported</u>	<u>Description</u>
% of sample	Percent of Sample
mg/Kg-dry	Milligrams per Kilogram Dry Weight
mg/L	Milligrams per Liter
s.u.	Standard Units

**ALS Group, USA**

Date: 30-Sep-21

Client: Core Appalachia Operating, LLC  
 Project: WPP-005  
 Sample ID: WPP-005 Soil #1 On-site Grab  
 Collection Date: 9/21/2021 09:30 AM

Work Order: 21091995  
 Lab ID: 21091995-01  
 Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<b>MERCURY BY CVAA</b>			Method:SW7471B		Prep: SW7471 / 9/27/21		Analyst: <b>MTW</b>
Mercury	0.042		0.018	0.026	mg/Kg-dry	1	9/27/2021 17:45
<b>METALS BY ICP-MS</b>			Method:SW6020B		Prep: SW3050B / 9/25/21		Analyst: <b>STP</b>
Aluminum	5,900		310	390	mg/Kg-dry	100	9/27/2021 16:42
Barium	330		4.5	4.9	mg/Kg-dry	10	9/27/2021 16:43
Calcium	1,200		23	49	mg/Kg-dry	1	9/26/2021 21:50
Iron	11,000		16	20	mg/Kg-dry	1	9/26/2021 21:50
Magnesium	440		14	20	mg/Kg-dry	1	9/26/2021 21:50
Manganese	220		4.1	4.9	mg/Kg-dry	10	9/27/2021 16:43
Potassium	700		8.2	20	mg/Kg-dry	1	9/26/2021 21:50
Selenium	U		0.45	0.49	mg/Kg-dry	1	9/26/2021 21:50
Sodium	U		26	29	mg/Kg-dry	1	9/26/2021 21:50
<b>ANIONS BY ION CHROMATOGRAPHY</b>			Method:SW9056A		Prep: EXTRACT / 9/27/21		Analyst: <b>QTN</b>
Chloride	7.9	J	4.4	14	mg/L-dry	1	9/27/2021 17:59
Sulfate	2.4	J	0.80	14	mg/L-dry	1	9/27/2021 17:59
<b>MOISTURE</b>			Method:SW3550C				Analyst: <b>ALG</b>
Moisture	29		0.10	0.10	% of sample	1	9/24/2021 15:34

Note: See Qualifiers page for a list of qualifiers and their definitions.

**ALS Group, USA**

Date: 30-Sep-21

**Client:** Core Appalachia Operating, LLC  
**Project:** WPP-005  
**Sample ID:** WPP-005 Soil #2 Background Grab  
**Collection Date:** 9/21/2021 09:30 AM

**Work Order:** 21091995  
**Lab ID:** 21091995-02  
**Matrix:** SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<b>MERCURY BY CVAA</b>							
			Method:SW7471B		Prep: SW7471 / 9/27/21		Analyst: <b>MTW</b>
Mercury	0.090		0.026	0.038	mg/Kg-dry	1	9/27/2021 17:47
<b>METALS BY ICP-MS</b>							
			Method:SW6020B		Prep: SW3050B / 9/25/21		Analyst: <b>STP</b>
Aluminum	2,400		480	600	mg/Kg-dry	100	9/27/2021 16:45
Barium	89		0.69	0.75	mg/Kg-dry	1	9/26/2021 21:52
Calcium	1,700		36	75	mg/Kg-dry	1	9/26/2021 21:52
Iron	5,300		24	30	mg/Kg-dry	1	9/26/2021 21:52
Magnesium	320		21	30	mg/Kg-dry	1	9/26/2021 21:52
Manganese	160		0.63	0.75	mg/Kg-dry	1	9/26/2021 21:52
Potassium	710		13	30	mg/Kg-dry	1	9/26/2021 21:52
Selenium	U		0.69	0.75	mg/Kg-dry	1	9/26/2021 21:52
Sodium	59		40	45	mg/Kg-dry	1	9/26/2021 21:52
<b>ANIONS BY ION CHROMATOGRAPHY</b>							
			Method:SW9056A		Prep: EXTRACT / 9/27/21		Analyst: <b>QTN</b>
Chloride	9.5	J	6.3	20	mg/L-dry	1	9/27/2021 18:14
Sulfate	3.2	J	1.1	20	mg/L-dry	1	9/27/2021 18:14
<b>MOISTURE</b>							
			Method:SW3550C				Analyst: <b>ALG</b>
Moisture	51		0.10	0.10	% of sample	1	9/24/2021 15:34

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

**ALS Group, USA**

Date: 30-Sep-21

Client: Core Appalachia Operating, LLC  
 Project: WPP-005  
 Sample ID: WPP-005-Surface #1 Grab  
 Collection Date: 9/21/2021 09:40 AM

Work Order: 21091995  
 Lab ID: 21091995-03  
 Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<b>MERCURY BY CVAA (DISSOLVED)</b>			Method:SW7470A		Prep: SW7470 / 9/27/21		Analyst: <b>MTW</b>
Mercury		U	0.00016	0.00020	mg/L	1	9/27/2021 13:39
<b>METALS BY ICP-MS</b>			Method:SW6020B		Prep: SW3015A / 9/27/21		Analyst: <b>STP</b>
Barium	0.093		0.0020	0.0050	mg/L	1	9/29/2021 19:20
Calcium	11		0.25	0.50	mg/L	1	9/29/2021 19:20
Magnesium	4.2		0.050	0.20	mg/L	1	9/29/2021 19:20
Potassium	14		0.096	0.20	mg/L	1	9/29/2021 19:20
Sodium	0.57		0.18	0.20	mg/L	1	9/29/2021 19:20
<b>METALS BY ICP-MS (DISSOLVED)</b>			Method:SW6020B		Prep: SW3015A / 9/27/21		Analyst: <b>STP</b>
Aluminum	0.022		0.0080	0.010	mg/L	1	9/29/2021 19:18
Iron	0.20		0.050	0.080	mg/L	1	9/29/2021 19:18
Manganese	5.3		0.025	0.050	mg/L	10	9/30/2021 12:33
Selenium	0.00094	J	0.00048	0.0050	mg/L	1	9/29/2021 19:18
<b>ANIONS BY ION CHROMATOGRAPHY</b>			Method:E300.0				Analyst: <b>QTN</b>
Chloride	2.3		0.62	2.0	mg/L	2	9/23/2021 22:15
Sulfate	0.21	J	0.19	1.0	mg/L	1	9/24/2021 14:01
<b>TOTAL DISSOLVED SOLIDS</b>			Method:A2540 C-11		Prep: FILTER / 9/23/21		Analyst: <b>SRN</b>
Total Dissolved Solids	120		22	30	mg/L	1	9/27/2021 15:46

Note: See Qualifiers page for a list of qualifiers and their definitions.

**Client:** Core Appalachia Operating, LLC  
**Work Order:** 21091995  
**Project:** WPP-005

**QC BATCH REPORT**

Batch ID: **184398** Instrument ID **HG4** Method: **SW7470A**

<b>MBLK</b>		Sample ID: <b>MBLK-184398-184398</b>				Units: <b>mg/L</b>		Analysis Date: <b>9/27/2021 01:06 PM</b>			
Client ID:		Run ID: <b>HG4_210927A</b>		SeqNo: <b>7786976</b>		Prep Date: <b>9/27/2021</b>		DF: <b>1</b>			
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	U	0.00016	0.00020								

<b>LCS</b>		Sample ID: <b>LCS-184398-184398</b>				Units: <b>mg/L</b>		Analysis Date: <b>9/27/2021 01:08 PM</b>			
Client ID:		Run ID: <b>HG4_210927A</b>		SeqNo: <b>7786977</b>		Prep Date: <b>9/27/2021</b>		DF: <b>1</b>			
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00225	0.00016	0.00020	0.002	0	112	80-120	0			

<b>MS</b>		Sample ID: <b>21092203-01AMS</b>				Units: <b>mg/L</b>		Analysis Date: <b>9/27/2021 01:57 PM</b>			
Client ID:		Run ID: <b>HG4_210927A</b>		SeqNo: <b>7787003</b>		Prep Date: <b>9/27/2021</b>		DF: <b>1</b>			
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.002145	0.00016	0.00020	0.002	0.0001185	101	75-125	0			

<b>MSD</b>		Sample ID: <b>21092203-01AMSD</b>				Units: <b>mg/L</b>		Analysis Date: <b>9/27/2021 01:58 PM</b>			
Client ID:		Run ID: <b>HG4_210927A</b>		SeqNo: <b>7787004</b>		Prep Date: <b>9/27/2021</b>		DF: <b>1</b>			
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00213	0.00016	0.00020	0.002	0.0001185	101	75-125	0.002145	0.702	20	

The following samples were analyzed in this batch: 21091995-03A

Client: Core Appalachia Operating, LLC  
 Work Order: 21091995  
 Project: WPP-005

**QC BATCH REPORT**

Batch ID: 184433 Instrument ID HG4 Method: SW7471B

MBLK		Sample ID: MBLK-184433-184433				Units: mg/Kg		Analysis Date: 9/27/2021 05:21 PM			
Client ID:		Run ID: HG4_210927A				SeqNo: 7788450		Prep Date: 9/27/2021		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	U	0.014	0.020								

LCS		Sample ID: LCS-184433-184433				Units: mg/Kg		Analysis Date: 9/27/2021 05:22 PM			
Client ID:		Run ID: HG4_210927A				SeqNo: 7788451		Prep Date: 9/27/2021		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1858	0.014	0.020	0.1665	0	112	80-120	0			

MS		Sample ID: 21091998-02AMS				Units: mg/Kg		Analysis Date: 9/27/2021 05:52 PM			
Client ID:		Run ID: HG4_210927A				SeqNo: 7788467		Prep Date: 9/27/2021		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1958	0.013	0.019	0.1558	0.03449	103	75-125	0			

MSD		Sample ID: 21091998-02AMSD				Units: mg/Kg		Analysis Date: 9/27/2021 05:54 PM			
Client ID:		Run ID: HG4_210927A				SeqNo: 7788468		Prep Date: 9/27/2021		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1955	0.013	0.019	0.1556	0.03449	103	75-125	0.1958	0.156	35	

The following samples were analyzed in this batch: 21091995-01A 21091995-02A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Core Appalachia Operating, LLC  
 Work Order: 21091995  
 Project: WPP-005

# QC BATCH REPORT

Batch ID: 184368 Instrument ID ICPMS4 Method: SW6020B

MBLK		Sample ID: MBLK-184368-184368				Units: mg/Kg		Analysis Date: 9/26/2021 09:01 PM			
Client ID:		Run ID: ICPMS4_210926B				SeqNo: 7783624		Prep Date: 9/25/2021		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Barium	U	0.23	0.25								
Calcium	13.37	12	25								J
Iron	U	8	10								
Magnesium	U	7	10								
Manganese	U	0.21	0.25								
Potassium	U	4.2	10								
Selenium	U	0.23	0.25								
Sodium	U	13	15								

MBLK		Sample ID: MBLK-184368-184368				Units: mg/Kg		Analysis Date: 9/27/2021 04:32 PM			
Client ID:		Run ID: ICPMS4_210927B				SeqNo: 7788488		Prep Date: 9/25/2021		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	U	1.6	2.0								

LCS		Sample ID: LCS-184368-184368				Units: mg/Kg		Analysis Date: 9/26/2021 09:45 PM			
Client ID:		Run ID: ICPMS4_210926B				SeqNo: 7783644		Prep Date: 9/25/2021		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	4.833	1.6	2.0	5	0	96.7	80-120	0			B
Barium	4.778	0.23	0.25	5	0	95.6	80-120	0			
Calcium	471.8	12	25	500	0	94.4	80-120	0			
Iron	466.9	8	10	500	0	93.4	80-120	0			
Magnesium	474.9	7	10	500	0	95	80-120	0			
Manganese	4.657	0.21	0.25	5	0	93.1	80-120	0			
Potassium	469.7	4.2	10	500	0	93.9	80-120	0			
Sodium	473.8	13	15	500	0	94.8	80-120	0			

LCS		Sample ID: LCS-184368-184368				Units: mg/Kg		Analysis Date: 9/27/2021 04:34 PM			
Client ID:		Run ID: ICPMS4_210927B				SeqNo: 7788489		Prep Date: 9/25/2021		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Selenium	5.105	0.23	0.25	5	0	102	80-120	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.



Client: Core Appalachia Operating, LLC  
 Work Order: 21091995  
 Project: WPP-005

# QC BATCH REPORT

Batch ID: 184368 Instrument ID ICPMS4 Method: SW6020B

MS		Sample ID: 21091998-02AMS				Units: mg/Kg		Analysis Date: 9/26/2021 09:59 PM			
Client ID:		Run ID: ICPMS4_210926B				SeqNo: 7783650		Prep Date: 9/25/2021		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	11010	2.2	2.7	6.868	7954	44400	75-125	0			BSEO
Barium	53.49	0.32	0.34	6.868	43.27	149	75-125	0			SO
Calcium	713.6	16	34	686.8	87.31	91.2	75-125	0			
Iron	14790	11	14	686.8	12560	324	75-125	0			SEO
Magnesium	1451	9.6	14	686.8	667.1	114	75-125	0			
Manganese	341.1	0.29	0.34	6.868	170.3	2490	75-125	0			SEO
Potassium	994.7	5.8	14	686.8	410.2	85.1	75-125	0			
Sodium	588.2	18	21	686.8	6.351	84.7	75-125	0			

MS		Sample ID: 21091998-02AMS				Units: mg/Kg		Analysis Date: 9/27/2021 04:50 PM			
Client ID:		Run ID: ICPMS4_210927B				SeqNo: 7788499		Prep Date: 9/25/2021		DF: 100	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	13180	220	270	6.868	9875	48100	75-125	0			SEO

MS		Sample ID: 21091998-02AMS				Units: mg/Kg		Analysis Date: 9/27/2021 04:59 PM			
Client ID:		Run ID: ICPMS4_210927B				SeqNo: 7788505		Prep Date: 9/25/2021		DF: 10	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	18860	110	140	6.868	15850	439	75-125	0			SO
Manganese	426.6	2.9	3.4	6.868	209.7	3160	75-125	0			SO

MS		Sample ID: 21091998-02AMS				Units: mg/Kg		Analysis Date: 9/29/2021 02:27 PM			
Client ID:		Run ID: ICPMS4_210929B				SeqNo: 7795763		Prep Date: 9/25/2021		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Selenium	7.159	0.32	0.34	6.868	0.324	99.5	75-125	0			

MSD		Sample ID: 21091998-02AMSD				Units: mg/Kg		Analysis Date: 9/26/2021 10:01 PM			
Client ID:		Run ID: ICPMS4_210926B				SeqNo: 7783651		Prep Date: 9/25/2021		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	12190	2.2	2.7	6.748	7954	62700	75-125	11010	10.2	20	BSEO
Barium	61.47	0.31	0.34	6.748	43.27	270	75-125	53.49	13.9	20	SO
Calcium	745.3	16	34	674.8	87.31	97.5	75-125	713.6	4.34	20	
Iron	15270	11	13	674.8	12560	401	75-125	14790	3.2	20	SEO
Magnesium	1560	9.4	13	674.8	667.1	132	75-125	1451	7.18	20	S
Manganese	242.5	0.28	0.34	6.748	170.3	1070	75-125	341.1	33.8	20	SREO
Potassium	1106	5.7	13	674.8	410.2	103	75-125	994.7	10.6	20	
Sodium	635.7	18	20	674.8	6.351	93.3	75-125	588.2	7.76	20	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

11/22/2024

Client: Core Appalachia Operating, LLC  
 Work Order: 21091995  
 Project: WPP-005

## QC BATCH REPORT

Batch ID: 184368 Instrument ID ICPMS4 Method: SW6020B

MSD		Sample ID: 21091998-02AMSD				Units: mg/Kg		Analysis Date: 9/27/2021 04:51 PM			
Client ID:		Run ID: ICPMS4_210927B				SeqNo: 7788500		Prep Date: 9/25/2021		DF: 100	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	13550	220	270	6.748	9875	54500	75-125	12660	6.79	20	SEO

MSD		Sample ID: 21091998-02AMSD				Units: mg/Kg		Analysis Date: 9/27/2021 05:01 PM			
Client ID:		Run ID: ICPMS4_210927B				SeqNo: 7788506		Prep Date: 9/25/2021		DF: 10	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	18060	110	130	674.8	15850	329	75-125	17660	2.28	20	SO
Manganese	282.6	2.8	3.4	6.748	209.7	1080	75-125	396.7	33.6	20	SRO

MSD		Sample ID: 21091998-02AMSD				Units: mg/Kg		Analysis Date: 9/29/2021 02:29 PM			
Client ID:		Run ID: ICPMS4_210929B				SeqNo: 7795764		Prep Date: 9/25/2021		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Selenium	6.992	0.31	0.34	6.748	0.324	98.8	75-125	7.159	2.36	20	

The following samples were analyzed in this batch:

21091995-01A 21091995-02A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Core Appalachia Operating, LLC  
 Work Order: 21091995  
 Project: WPP-005

## QC BATCH REPORT

Batch ID: 184442 Instrument ID ICPMS4 Method: SW6020B

MBLK		Sample ID: MBLK-184442-184442			Units: mg/L		Analysis Date: 9/29/2021 03:26 PM				
Client ID:		Run ID: ICPMS4_210929A			SeqNo: 7795846		Prep Date: 9/27/2021		DF: 1		
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	U	0.008	0.010								
Barium	U	0.002	0.0050								
Calcium	U	0.25	0.50								
Iron	U	0.05	0.080								
Magnesium	U	0.05	0.20								
Manganese	U	0.0025	0.0050								
Potassium	U	0.096	0.20								
Selenium	U	0.00048	0.0050								
Sodium	U	0.18	0.20								

LCS		Sample ID: LCS-184442-184442			Units: mg/L		Analysis Date: 9/29/2021 03:27 PM				
Client ID:		Run ID: ICPMS4_210929A			SeqNo: 7795847		Prep Date: 9/27/2021		DF: 1		
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1028	0.008	0.010	0.1	0	103	80-120	0			
Barium	0.09856	0.002	0.0050	0.1	0	98.6	80-120	0			
Calcium	10.22	0.25	0.50	10	0	102	80-120	0			
Iron	10.27	0.05	0.080	10	0	103	80-120	0			
Magnesium	10.5	0.05	0.20	10	0	105	80-120	0			
Manganese	0.1001	0.0025	0.0050	0.1	0	100	80-120	0			
Potassium	10.29	0.096	0.20	10	0	103	80-120	0			
Selenium	0.1006	0.00048	0.0050	0.1	0	101	80-120	0			
Sodium	10.69	0.18	0.20	10	0	107	80-120	0			

MS		Sample ID: 21091857-18BMS			Units: mg/L		Analysis Date: 9/29/2021 07:14 PM				
Client ID:		Run ID: ICPMS4_210929A			SeqNo: 7796873		Prep Date: 9/27/2021		DF: 1		
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1042	0.008	0.010	0.1	0.009043	95.2	75-125	0			
Barium	0.1439	0.002	0.0050	0.1	0.04349	100	75-125	0			
Calcium	95.64	0.25	0.50	10	89.32	63.3	75-125	0			SO
Iron	8.832	0.05	0.080	10	0.06693	87.7	75-125	0			
Magnesium	27.88	0.05	0.20	10	19.27	86.1	75-125	0			
Manganese	0.2809	0.0025	0.0050	0.1	0.1995	81.4	75-125	0			
Potassium	19.74	0.096	0.20	10	10.44	92.9	75-125	0			
Selenium	0.09593	0.00048	0.0050	0.1	0.001069	94.9	75-125	0			
Sodium	256.4	0.18	0.20	10	258	-16.7	75-125	0			SEO

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Core Appalachia Operating, LLC  
**Work Order:** 21091995  
**Project:** WPP-005

## QC BATCH REPORT

Batch ID: **184442**      Instrument ID **ICPMS4**      Method: **SW6020B**

MSD		Sample ID: <b>21091857-18BMSD</b>				Units: <b>mg/L</b>		Analysis Date: <b>9/29/2021 07:16 PM</b>			
Client ID:		Run ID: <b>ICPMS4_210929A</b>				SeqNo: <b>7796874</b>		Prep Date: <b>9/27/2021</b>		DF: <b>1</b>	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1265	0.008	0.010	0.1	0.009043	117	75-125	0.1042	19.3	20	
Barium	0.1443	0.002	0.0050	0.1	0.04349	101	75-125	0.1439	0.266	20	
Calcium	95.57	0.25	0.50	10	89.32	62.5	75-125	95.64	0.0826	20	SO
Iron	8.907	0.05	0.080	10	0.06693	88.4	75-125	8.832	0.842	20	
Magnesium	28.08	0.05	0.20	10	19.27	88.1	75-125	27.88	0.685	20	
Manganese	0.2791	0.0025	0.0050	0.1	0.1995	79.6	75-125	0.2809	0.674	20	
Potassium	19.89	0.096	0.20	10	10.44	94.5	75-125	19.74	0.762	20	
Selenium	0.09753	0.00048	0.0050	0.1	0.001069	96.5	75-125	0.09593	1.66	20	
Sodium	258.8	0.18	0.20	10	258	7.84	75-125	256.4	0.954	20	SEO

The following samples were analyzed in this batch:

21091995-03A	21091995-03C
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**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Core Appalachia Operating, LLC  
 Work Order: 21091995  
 Project: WPP-005

## QC BATCH REPORT

Batch ID: 184276 Instrument ID TDS Method: A2540 C-11

MBLK		Sample ID: MBLK-184276-184276				Units: mg/L		Analysis Date: 9/27/2021 03:46 PM			
Client ID:		Run ID: TDS_210927D				SeqNo: 7786516		Prep Date: 9/23/2021		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids	U	22	30								

LCS		Sample ID: LCS-184276-184276				Units: mg/L		Analysis Date: 9/27/2021 03:46 PM			
Client ID:		Run ID: TDS_210927D				SeqNo: 7786515		Prep Date: 9/23/2021		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids	512	22	30	495	0	103	85-109	0			

DUP		Sample ID: 21092027-02A DUP				Units: mg/L		Analysis Date: 9/27/2021 03:46 PM			
Client ID:		Run ID: TDS_210927D				SeqNo: 7786510		Prep Date: 9/23/2021		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids	1913	74	100	0	0	0	0-0	1893	1.05	10	

DUP		Sample ID: 21092270-03A DUP				Units: mg/L		Analysis Date: 9/27/2021 03:46 PM			
Client ID:		Run ID: TDS_210927D				SeqNo: 7786514		Prep Date: 9/23/2021		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids	1113	74	100	0	0	0	0-0	1080	3.04	10	

The following samples were analyzed in this batch:

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Core Appalachia Operating, LLC  
 Work Order: 21091995  
 Project: WPP-005

# QC BATCH REPORT

Batch ID: 184422 Instrument ID IC4 Method: SW9056A

MBLK		Sample ID: MBLK-184422-184422				Units: mg/Kg		Analysis Date: 9/27/2021 01:25 PM			
Client ID:		Run ID: IC4_210927A				SeqNo: 7789448		Prep Date: 9/27/2021		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	U	3.1	10								
Sulfate	U	0.57	10								

MBLK		Sample ID: MBLK-184422-184422				Units: mg/Kg		Analysis Date: 9/28/2021 11:54 AM			
Client ID:		Run ID: IC4_210928A				SeqNo: 7793565		Prep Date: 9/27/2021		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	U	3.1	10								
Sulfate	U	0.57	10								

LCS		Sample ID: LCS-184422-184422				Units: mg/Kg		Analysis Date: 9/27/2021 01:25 PM			
Client ID:		Run ID: IC4_210927A				SeqNo: 7789449		Prep Date: 9/27/2021		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	95.62	3.1	10	100	0	95.6	80-116	0			
Sulfate	99.43	0.57	10	100	0	99.4	85-114	0			

LCS		Sample ID: LCS-184422-184422				Units: mg/Kg		Analysis Date: 9/28/2021 11:54 AM			
Client ID:		Run ID: IC4_210928A				SeqNo: 7793566		Prep Date: 9/27/2021		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	105.3	3.1	10	100	0	105	80-116	0			
Sulfate	107.3	0.57	10	100	0	107	85-114	0			

MS		Sample ID: 21091998-02A MS				Units: mg/L		Analysis Date: 9/27/2021 07:00 PM			
Client ID:		Run ID: IC4_210927A				SeqNo: 7789438		Prep Date: 9/27/2021		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	96.18	3.1	10	100.2	4.286	91.7	80-116	0			
Sulfate	94.27	0.57	10	100.2	2.863	91.2	85-114	0			

MS		Sample ID: 21091998-02A MS				Units: mg/L		Analysis Date: 9/28/2021 01:36 PM			
Client ID:		Run ID: IC4_210928A				SeqNo: 7793516		Prep Date: 9/27/2021		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	104.2	3.1	10	100.2	4.618	99.4	80-116	0			
Sulfate	102.2	0.57	10	100.2	3.527	98.5	85-114	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.



Client: Core Appalachia Operating, LLC  
 Work Order: 21091995  
 Project: WPP-005

# QC BATCH REPORT

Batch ID: 184422 Instrument ID IC4 Method: SW9056A

MSD		Sample ID: 21091998-02A MSD				Units: mg/L		Analysis Date: 9/27/2021 07:15 PM			
Client ID:		Run ID: IC4_210927A				SeqNo: 7789439		Prep Date: 9/27/2021		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	95.76	3.1	10	99.8	4.286	91.7	80-116	96.18	0.44	20	
Sulfate	93.69	0.57	10	99.8	2.863	91	85-114	94.27	0.616	20	

MSD		Sample ID: 21091998-02A MSD				Units: mg/L		Analysis Date: 9/28/2021 01:51 PM			
Client ID:		Run ID: IC4_210928A				SeqNo: 7793517		Prep Date: 9/27/2021		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	104	3.1	10	99.8	4.618	99.6	80-116	104.2	0.215	20	
Sulfate	101.9	0.57	10	99.8	3.527	98.6	85-114	102.2	0.317	20	

The following samples were analyzed in this batch: 21091995-01A 21091995-02A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Core Appalachia Operating, LLC  
 Work Order: 21091995  
 Project: WPP-005

# QC BATCH REPORT

Batch ID: R327401 Instrument ID IC3 Method: E300.0

MBLK		Sample ID: MBLK-R327401				Units: mg/L		Analysis Date: 9/23/2021 10:46 AM			
Client ID:		Run ID: IC3_210923A				SeqNo: 7776445		Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	U	0.31	1.0								

LCS		Sample ID: LCS-R327401				Units: mg/L		Analysis Date: 9/23/2021 11:32 AM			
Client ID:		Run ID: IC3_210923A				SeqNo: 7776448		Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	9.814	0.31	1.0	10	0	98.1	90-110	0			

LCS		Sample ID: LCS-R327401				Units: mg/L		Analysis Date: 9/23/2021 06:42 PM			
Client ID:		Run ID: IC3_210923A				SeqNo: 7776476		Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	9.854	0.31	1.0	10	0	98.5	90-110	0			

MS		Sample ID: 21091719-03B MS				Units: mg/L		Analysis Date: 9/23/2021 12:17 PM			
Client ID:		Run ID: IC3_210923A				SeqNo: 7776451		Prep Date:		DF: 20	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	236.4	6.2	20	200	48.36	94	80-120	0			

MS		Sample ID: 21091880-04B MS				Units: mg/L		Analysis Date: 9/23/2021 03:22 PM			
Client ID:		Run ID: IC3_210923A				SeqNo: 7776463		Prep Date:		DF: 10	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	144.5	3.1	10	100	43.85	101	80-120	0			

MS		Sample ID: 21091880-12B MS				Units: mg/L		Analysis Date: 9/23/2021 07:28 PM			
Client ID:		Run ID: IC3_210923A				SeqNo: 7776479		Prep Date:		DF: 10	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	178.2	3.1	10	100	69.28	109	80-120	0			

MS		Sample ID: 21091997-01D MS				Units: mg/L		Analysis Date: 9/23/2021 10:46 PM			
Client ID:		Run ID: IC3_210923A				SeqNo: 7776492		Prep Date:		DF: 100	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	1687	31	100	1000	698.8	98.8	80-120	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.



Client: Core Appalachia Operating, LLC  
 Work Order: 21091995  
 Project: WPP-005

## QC BATCH REPORT

Batch ID: R327401 Instrument ID IC3 Method: E300.0

MSD		Sample ID: 21091719-03B MSD				Units: mg/L		Analysis Date: 9/23/2021 12:33 PM			
Client ID:		Run ID: IC3_210923A				SeqNo: 7776452		Prep Date:		DF: 20	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	235.5	6.2	20	200	48.36	93.6	80-120	236.4	0.375	20	

MSD		Sample ID: 21091880-04B MSD				Units: mg/L		Analysis Date: 9/23/2021 03:38 PM			
Client ID:		Run ID: IC3_210923A				SeqNo: 7776464		Prep Date:		DF: 10	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	144.9	3.1	10	100	43.85	101	80-120	144.5	0.299	20	

MSD		Sample ID: 21091880-12B MSD				Units: mg/L		Analysis Date: 9/23/2021 07:43 PM			
Client ID:		Run ID: IC3_210923A				SeqNo: 7776480		Prep Date:		DF: 10	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	177.7	3.1	10	100	69.28	108	80-120	178.2	0.282	20	

MSD		Sample ID: 21091997-01D MSD				Units: mg/L		Analysis Date: 9/23/2021 11:01 PM			
Client ID:		Run ID: IC3_210923A				SeqNo: 7776493		Prep Date:		DF: 100	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	1688	31	100	1000	698.8	98.9	80-120	1687	0.0433	20	

The following samples were analyzed in this batch:

21091995-03D

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Core Appalachia Operating, LLC  
 Work Order: 21091995  
 Project: WPP-005

# QC BATCH REPORT

Batch ID: R327499 Instrument ID IC3 Method: E300.0

MBLK		Sample ID: MBLK-R327499			Units: mg/L		Analysis Date: 9/24/2021 10:41 AM				
Client ID:		Run ID: IC3_210924A			SeqNo: 7780474		Prep Date:		DF: 1		
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfate	U	0.19	1.0								

LCS		Sample ID: LCS-R327499			Units: mg/L		Analysis Date: 9/24/2021 11:28 AM				
Client ID:		Run ID: IC3_210924A			SeqNo: 7780477		Prep Date:		DF: 1		
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfate	10.22	0.19	1.0	10	0	102	90-110	0			

MS		Sample ID: 21092215-02B MS			Units: mg/L		Analysis Date: 9/24/2021 12:14 PM				
Client ID:		Run ID: IC3_210924A			SeqNo: 7780480		Prep Date:		DF: 100		
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfate	1488	19	100	1000	527	96.1	80-120	0			

MS		Sample ID: 21091997-01D MS			Units: mg/L		Analysis Date: 9/24/2021 03:17 PM				
Client ID:		Run ID: IC3_210924A			SeqNo: 7780492		Prep Date:		DF: 10		
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfate	96.21	1.9	10	100	0	96.2	80-120	0			

MSD		Sample ID: 21092215-02B MSD			Units: mg/L		Analysis Date: 9/24/2021 12:29 PM				
Client ID:		Run ID: IC3_210924A			SeqNo: 7780481		Prep Date:		DF: 100		
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfate	1489	19	100	1000	527	96.2	80-120	1488	0.0497	20	

MSD		Sample ID: 21091997-01D MSD			Units: mg/L		Analysis Date: 9/24/2021 03:33 PM				
Client ID:		Run ID: IC3_210924A			SeqNo: 7780493		Prep Date:		DF: 10		
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfate	96.25	1.9	10	100	0	96.3	80-120	96.21	0.0416	20	

The following samples were analyzed in this batch:

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

11/22/2024

Client: Core Appalachia Operating, LLC  
 Work Order: 21091995  
 Project: WPP-005

# QC BATCH REPORT

Batch ID: R327577 Instrument ID MOIST Method: SW3550C

MBLK		Sample ID: WBLKS-R327577				Units: % of sample		Analysis Date: 9/24/2021 03:34 PM			
Client ID:		Run ID: MOIST_210924D				SeqNo: 7784596		Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	U	0.1	0.10								

LCS		Sample ID: LCS-R327577				Units: % of sample		Analysis Date: 9/24/2021 03:34 PM			
Client ID:		Run ID: MOIST_210924D				SeqNo: 7784595		Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	99.99	0.1	0.10	100	0	100	98-102	0			

DUP		Sample ID: 21091995-01A DUP				Units: % of sample		Analysis Date: 9/24/2021 03:34 PM			
Client ID: WPP-005 Soil #1 On-site Grab		Run ID: MOIST_210924D				SeqNo: 7784574		Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	31.27	0.1	0.10	0	0	0	0-0	29.22	6.78	10	

DUP		Sample ID: 21092200-01A DUP				Units: % of sample		Analysis Date: 9/24/2021 03:34 PM			
Client ID:		Run ID: MOIST_210924D				SeqNo: 7784585		Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	12.01	0.1	0.10	0	0	0	0-0	12.05	0.333	10	

The following samples were analyzed in this batch: 21091995-01A 21091995-02A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.



Environmental

Subcontractor:  
ALS Environmental - Holland  
3352 128th Avenue  
Holland, MI 49424

TEL: (616) 399-6070  
FAX: (616) 399-6185  
Acct #:

# CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Date: **21-Sep-21**  
COC ID: **17776**  
Due Date: **28-Sep-21**

Salesperson **Paul Painter**

Customer Information		Project Information		Parameter/Method Request for Analysis											
Purchase Order		Project Name	21091995	A	Total Dissolved Solids (A2540 C-11)										
Work Order		Project Number		B	Anions by Ion Chromatography (E300.0)										
Company Name	ALS Group USA, Corp	Bill To Company	ALS Group USA, Corp	C	Moisture (SW3550C)										
Send Report To	Rebecca Kiser	Inv Attn	Accounts Payable	D	Metals by ICP-MS (SW6020B)										
Address	1740 Union Carbide Dr	Address	1740 Union Carbide Dr	E	Metals by ICP-MS (SW6020B)										
City/State/Zip	So Charleston, WV 25303	City/State/Zip	So Charleston, WV 25303	F	Metals by ICP-MS (dissolved) (SW6020B)										
Phone	(304) 356-3168	Phone	(304) 356-3168	G	Mercury by CVAA (dissolved) (SW7470A)										
Fax		Fax		H	Mercury by CVAA (SW7471B)										
eMail Address	rebecca.kiser@alsglobal.com	eMail CC		I	Anions by Ion Chromatography (SW9056A)										
				J											
ALS Sample ID	Client Sample ID	Matrix	Collection Date 24hr	Bottle	A	B	C	D	E	F	G	H	I	J	
21091995-01A	WPP-005 Soil #1 On-site Grab	Soil	21/Sep/2021 9:30	(1) 80ZGNEAT			X	X				X	X		
21091995-02A	WPP-005 Soil #2 Background Grab	Soil	21/Sep/2021 9:30	(1) 80ZGNEAT			X	X				X	X		
21091995-03A	WPP-005-Surface #1 Grab	Water	21/Sep/2021 9:40	(1) 250PHNO3						X	X				
21091995-03C	WPP-005-Surface #1 Grab	Water	21/Sep/2021 9:40	(1) 250PHNO3					X						
21091995-03D	WPP-005-Surface #1 Grab	Water	21/Sep/2021 9:40	(1) 250PNEAT	X	X									

Comments:

WV Samples.

Relinquished by: <i>[Signature]</i>	Date/Time: 9/21/21 1700	Received by: <i>FED EX</i>	Date/Time:	Cooler IDs: <i>ALSHN</i>	Report/QC Level: <i>stu</i>
Relinquished by: <i>FED EX</i>	Date/Time: 9/22/21 0900	Received by: <i>[Signature]</i>	Date/Time:	Cooler IDs: <i>CL0.0°C</i>	Report/QC Level:
				Cooler IDs: <i>1P3 pH29</i>	Report/QC Level:

11/22/2024

Sample Receipt Checklist

Client Name: CORE APPALACHIA

Date/Time Received: 21-Sep-21 16:03

Work Order: 21091995

Received by: DS

Checklist completed by *Diane Shaw* 23-Sep-21  
eSignature Date

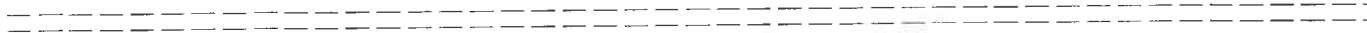
Reviewed by: *Rebecca Hiser* 27-Sep-21  
eSignature Date

Matrices: Soil, Water

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample(s) received on ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<input type="text" value="&lt;6.0 c"/> <input type="text" value="IR3"/>		
Cooler(s)/Kit(s):	<input type="text"/>		
Date/Time sample(s) sent to storage:	<input type="text" value="9/23/2021 9:04:44 AM"/>		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	N/A <input type="checkbox"/>
pH adjusted by:	<input type="text"/>		

Login Notes:



Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction: