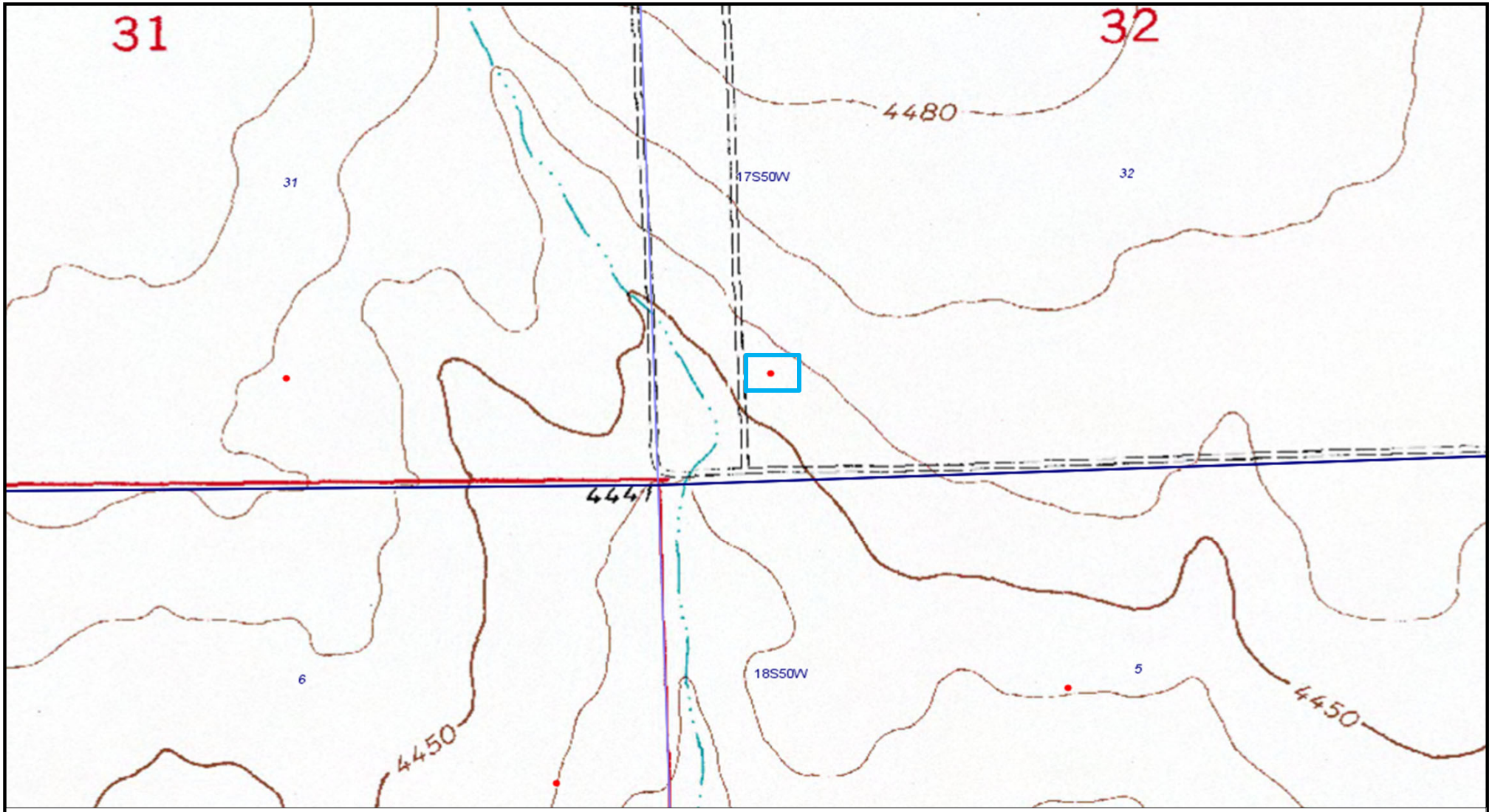
FIGURES

Figure 1: Topographic Site Location Map

Figure 2: Soil Sample Location Map



MULL DRILLING COMPANY, INC.
PECK-617S50W
FACILITY: 324857
SWSW S32, T17S R50W, KIOWA COUNTY
TOPOGRAPHIC MAP

Legend

Location Boundary

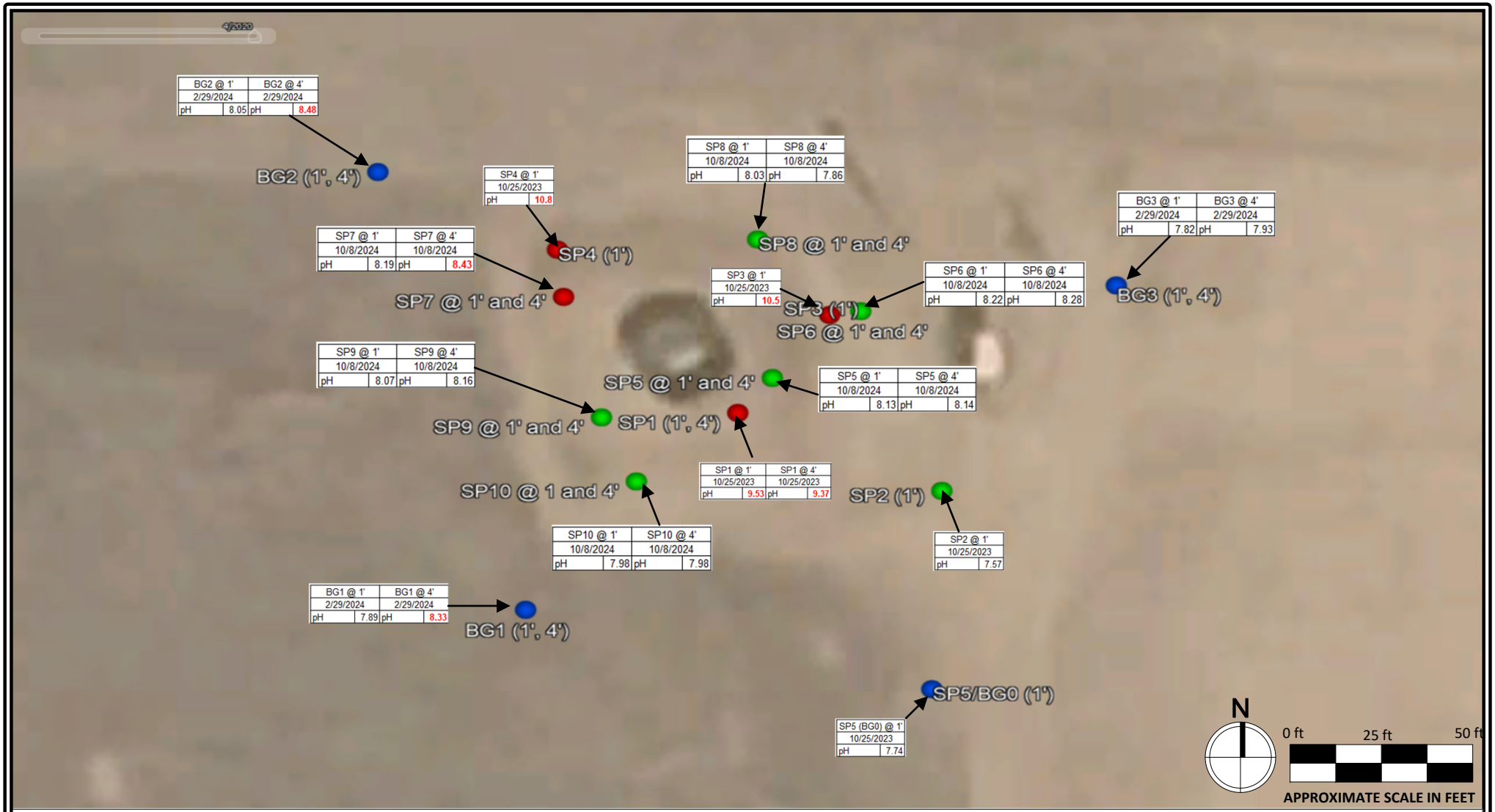
N

0 ft 300 ft 600 ft

ARDOR

Prepared By:
Ardor Environmental LLC

December 26, 2023



MULL DRILLING COMPANY, INC.
PECK-617S50W
FACILITY: 324857
SWSW S32, T17S R50W, KIOWA COUNTY
SOIL SAMPLE LOCATIONS

Legend

- Soil Sample Exceeds Table 915-1 Levels
- Background Soil Sample
- Soil Sample In Compliance With Table 915-1

NOTES: VALUES PRESENTED IN **BOLD** EXCEED ECMC TABLE 915-1 REGULATORY LIMIITS

ECMC TABLE 915-1 SOIL STANDARDS	
Compund	Concentrations
pH	6-8.3

Imagery Source: Google Earth 2020

ARDOR

Prepared By:
Ardor Environmental LLC

April 8, 2024

TABLES

Table 1: Analytical Results Summary

Peck Tank Battery Results - Table 915-1			10/25/2023						2/29/2024					
CLEANUP CONCENTRATIONS	**Sample Point**		**SP1**	**SP1**	**SP2**	**SP3**	**SP4**	**SP5 (BG0)**	**BG1**	**BG1**	**BG2**	**BG2**	**BG3**	**BG3**
	Depth		**1'**	**4'**	**1'**	**1'**	**1'**	**1'**	**1'**	**4'**	**1'**	**4'**	**1'**	**4'**
Contaminant of Concern	**Concentrations**		**38.528729; -103.042121**	**38.528729; -103.042121**	**38.528761; -103.041349**	**38.528781; -103.042068**	**38.528817; -103.042225**	**38.528582; -103.042009**	**38.528625, -103.042244**		**38.528856, -103.042328**		**38.528714, -103.04145**	
Soil TPH (total volatile [C6-C10] and extractable [C10-C36] hydrocarbons)	500mg/kg		ERO 8.3 J GRO U	ERO 6.1 J GRO U	SP2	ERO 3.8 J GRO U	ERO 8.4 J GRO U	ERO 6.0 J GRO U	NA	NA	NA	NA	NA	NA
PID READING			0.0 ppm	0.1 ppm	0.2 ppm	0.1 ppm	0.1 ppm	0.2 ppm	0.1 ppm	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm
Soil Suitability for Reclamation														
Electrical conductivity (EC) (by saturated paste method)	<4mmhos/cm		1.7	1.5	0.72	0.68	1.5	0.56	0.779	0.219	0.437	0.349	1.37	1.78
Sodium adsorption ratio (SAR) (by saturated paste method)	<6		0.32	1.2	0.40	0.29	0.25	0.099	NA	NA	NA	NA	NA	NA
pH (by saturated paste method)	6–8.3		**9.53**	**9.37**	7.57	**10.5**	**10.8**	7.74	7.89	**8.33**	8.05	**8.48**	7.82	7.93
boron (hot water soluble soil extract)	2mg/l		0.61	0.77	0.83	0.67	0.97	0.75	0.484	0.168	0.392	1.16	0.369	0.634
Organic Compounds in Groundwater														
benzene	5µg/l		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
toluene	560 to 1,000µg/l		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ethylbenzene	700µg/l		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
xylenes (sum of o-, m- and p- isomers = total xylenes)	1,400 to 10,000µg/l		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
naphthalene	140µg/l		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-trimethylbenzene	67µg/l		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-trimethylbenzene	67µg/l		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Groundwater Inorganic Parameters														
total dissolved solids (TDS)	<1.25 X local background		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
chloride ion	250mg/l or <1.25 X local background		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sulfate ion	250mg/l or <1.25 X local background		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Soils	**Residential Soil Screening Level Concentrations (mg/kg)**	**Protection of Groundwater Soil Screening Level Concentrations (mg/kg)**	**SP1**	**SP1**	**SP2**	**SP3**	**SP4**	**SP5 (BG0)**	**BG1**	**BG1**	**BG2**	**BG2**	**BG3**	**BG3**
	Depth		**1'**	**4'**	**1'**	**1'**	**1'**	**1'**	**1'**	**4'**	**1'**	**4'**	**1'**	**4'**
Organic Compounds in Soils														
benzene	1.2	0.0026 (M)	U	U	U	U	U	U	NA	NA	NA	NA	NA	NA
toluene	490	0.69 (M)	U	U	U	U	U	U	NA	NA	NA	NA	NA	NA
ethylbenzene	5.8	0.78 (M)	U	U	U	U	U	U	NA	NA	NA	NA	NA	NA
xylenes (sum of o-, m- and p- isomers = total xylenes)	58	9.9 (M)	U	U	U	U	U	U	NA	NA	NA	NA	NA	NA
1,2,4-trimethylbenzene	30	0.0081 (R)	U	U	U	U	U	U	NA	NA	NA	NA	NA	NA
1,3,5-trimethylbenzene	27	0.0087 (R)	U	U	U	U	U	U	NA	NA	NA	NA	NA	NA
acenaphthene	360	0.55 (R)	U	U	U	U	U	U	NA	NA	NA	NA	NA	NA
anthracene	1800	5.8 (R)	U	U	U	U	U	U	NA	NA	NA	NA	NA	NA
benz(a)anthracene	1.1	0.011 (R)	U	U	U	U	U	U	NA	NA	NA	NA	NA	NA
benzo(b)fluoranthene	1.1	0.3 (R)	U	U	U	U	U	U	NA	NA	NA	NA	NA	NA
benzo(k)fluoranthene	11	2.9 (R)	U	U	U	U	U	U	NA	NA	NA	NA	NA	NA
benzo(a)pyrene	0.11	0.24 (M)	U	U	U	U	U	U	NA	NA	NA	NA	NA	NA
chrysene	110	9 (R)	U	U	U	U	U	U	NA	NA	NA	NA	NA	NA
dibenzo(a,h)anthracene	0.11	0.096 (R)	U	U	U	U	U	U	NA	NA	NA	NA	NA	NA
fluoranthene	240	8.9 (R)	U	U	U	U	U	U	NA	NA	NA	NA	NA	NA
fluorene	240	0.54 (R)	U	U	U	U	U	U	NA	NA	NA	NA	NA	NA
indeno(1,2,3-cd)pyrene	1.1	0.98 (R)	U	U	U	U	U	U	NA	NA	NA	NA	NA	NA
1-methylnaphthalene	18	0.006 (R)	U	U	U	U	U	U	NA	NA	NA	NA	NA	NA
2-methylnaphthalene	24	0.019 (R)	U	U	U	U	U	U	NA	NA	NA	NA	NA	NA
naphthalene	2	0.0038 (R)	U	U	U	U	U	U	NA	NA	NA	NA	NA	NA
pyrene	180	1.3 (R)	U	U	U	U	U	U	NA	NA	NA	NA	NA	NA
Metals in Soils														
arsenic	0.68	0.29 (M)	**5.9**	**4.6**	**4.9**	**5.2**	**4.9**	**4.9**	**7.6**	**5.01**	**8.51**	**6.58**	**8.82**	**7.95**
barium	15000	82 (M)	170	320	170	160	130	160	NA	NA	NA	NA	NA	NA
cadmium	71	0.38 (M)	0.15	0.087 J	0.12	0.13 J	0.15 J	0.14	NA	NA	NA	NA	NA	NA
chromium (VI)	0.3	0.00067 (R)	U	U	U	U	U	U	NA	NA	NA	NA	NA	NA
copper	3100	46 (M)	11	9.3	9.6	9.6	10	10	NA	NA	NA	NA	NA	NA
lead	400	14 (M)	12	12	13	11	11	12	NA	NA	NA	NA	NA	NA
nickel	1500	26 (R)	11	10	9.4	9.6	10	10	NA	NA	NA	NA	NA	NA
selenium	390	0.26 (M)	0.45	U	0.36	0.36 J	0.44 J	0.40	NA	NA	NA	NA	NA	NA
silver	390	0.8 (R)	0.054 J	U	0.046 J	U	U	0.045 J	NA	NA	NA	NA	NA	NA
zinc	23000	370 (R)	34	32	35	30	33	31	NA	NA	NA	NA	NA	NA

*The letter "(**R**)" following a protection of Groundwater soil screening level indicates the concentration is derived from a risk-based approach. The letter "(**M**)" following a protection of Groundwater soil screening level indicates the concentration is derived from the drinking water MCL.*

Quantifier "J" indicated analyte is present at an estimated concentration between the MDL and Reporting Limit.
Quantifier "U" indicates analyzed but not detected above the MDL.
Values presented in **BOLD** contained concentrations exceeding ECMC Table 915-1 Residential Soil Screening Level limits, but are within Background results.
Values presented in **BOLD** contained concentrations exceeding ECMC Table 915-1 Residential Soil Screening Level limits, and Background results.
*Arsenic is naturally occurring in Colorado. Local Clean-Up Levels are 1.25*BG

Local Clean-Up Levels = 1.25 x BG

Arsenic	**1'**	**11.03**	**mg/kg**
	4'	**9.94**	**mg/kg**

ATTACHMENT A

Photologs

Peck TB

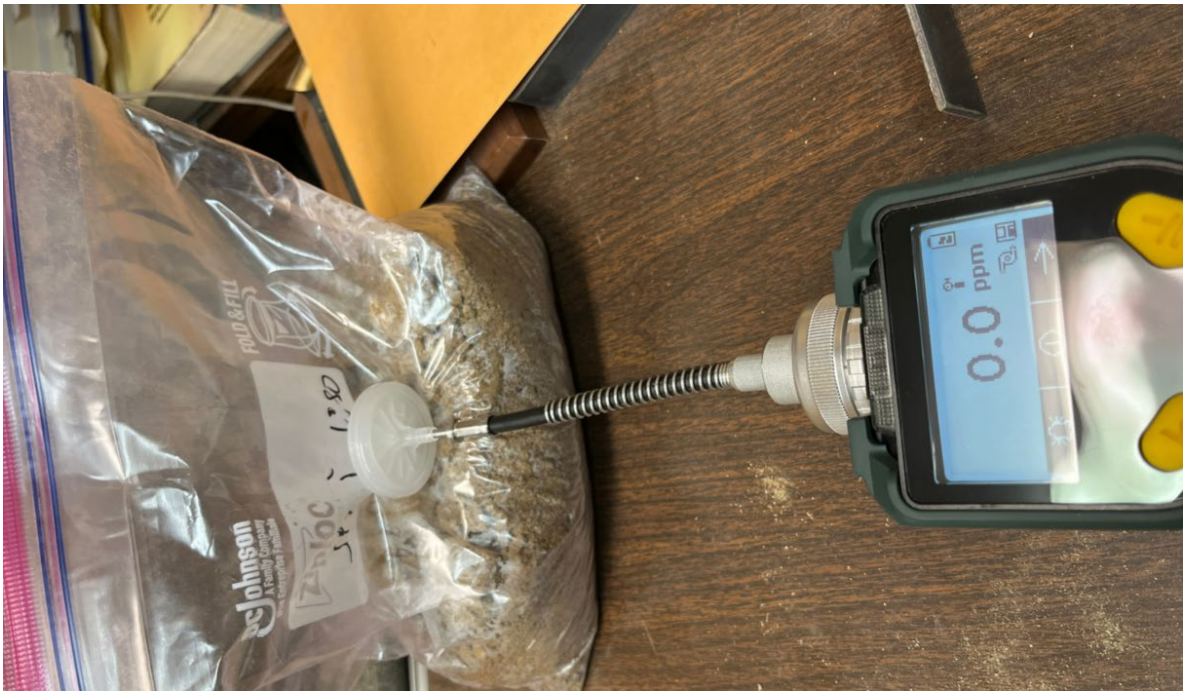
Remediation Project #31980

October 8, 2024 Sampling Photolog

SP5 @ 1’

SP6 @ 1’

SP7 @ 1’



SP8 @ 1’

SP9 @ 1’

SP10 @ 1’

Peck TB Photo Log

Mull Drilling Company Inc.

February 29, 2024

Title/Sample ID:	BG-01 @1’ and BG-01 @4’

Title/Sample ID:	BG-02 @1’ and BG-02 @4’

Title/Sample ID:	BG-03 @1’ and BG-03 @4’

ATTACHMENT B Laboratory

Analytical Reports

ORIGINS LABORATORY

Mull Drilling
Kendall Pelton
1700 N Waterfront Pkway Bldg #1200
Wichita KS 67206

October 24, 2024

Project Name - Peck TB BG **Project Number - [none]**

Attached are your analytical results for Peck TB BG received by Origins Laboratory October 09, 2024. This project is associated with Origins project number E410304-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory
303.433.1322
projectmanager@originslab.com

THE NELAC INSTITUTE

ACCREDITED
TESTING CERT # 3494.01

Mull Drilling
1700 N Waterfront Pkway Bldg #1200
Wichita KS 67206

Kendall Pelton
Project Number: [none]
Project: Peck TB BG

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SP 5 1'	E410304-01	Soil	October 8, 2024 13:30	10/09/2024 10:50
SP 5 4'	E410304-02	Soil	October 8, 2024 13:35	10/09/2024 10:50
SP 6 1'	E410304-03	Soil	October 8, 2024 13:40	10/09/2024 10:50
SP 6 4'	E410304-04	Soil	October 8, 2024 13:45	10/09/2024 10:50
SP 7 1'	E410304-05	Soil	October 8, 2024 13:50	10/09/2024 10:50
SP 7 4'	E410304-06	Soil	October 8, 2024 13:55	10/09/2024 10:50
SP 8 1'	E410304-07	Soil	October 8, 2024 14:05	10/09/2024 10:50
SP 8 4'	E410304-08	Soil	October 8, 2024 14:10	10/09/2024 10:50
SP 9 1'	E410304-09	Soil	October 8, 2024 14:15	10/09/2024 10:50
SP 9 4'	E410304-10	Soil	October 8, 2024 14:20	10/09/2024 10:50
SP 10 1'	E410304-11	Soil	October 8, 2024 14:25	10/09/2024 10:50
SP 10 4'	E410304-12	Soil	October 8, 2024 14:30	10/09/2024 10:50

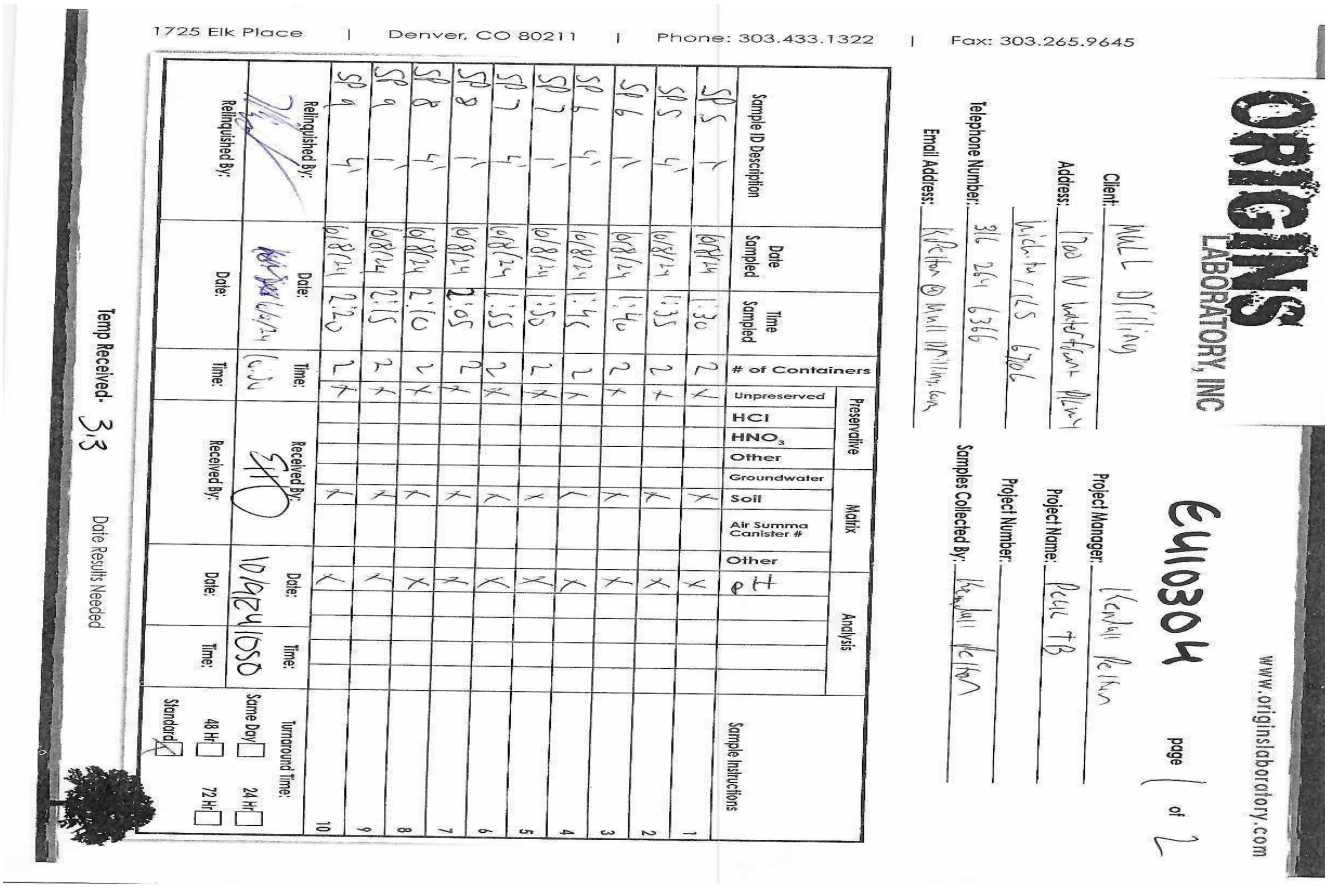
Origins Laboratory

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jordan A. Bynon For Jen Pellegrini, Project Manager

Mull Drilling
1700 N Waterfront Pkway Bldg #1200
Wichita KS 67206

Kendall Pelton
Project Number: [none]
Project: Peck TB BG



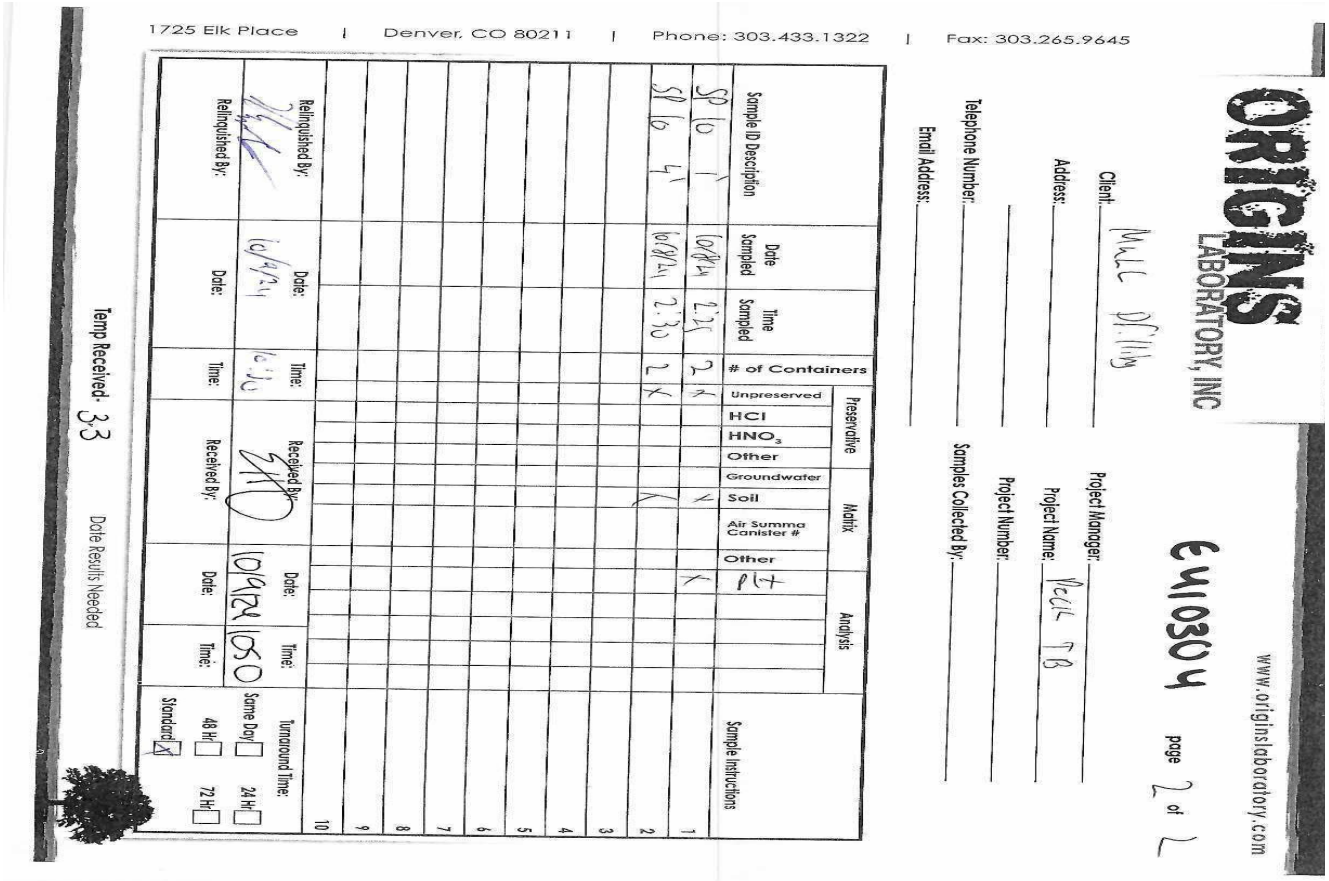
Origins Laboratory

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jordan A. Bynon For Jen Pellegrini, Project Manager

Mull Drilling
1700 N Waterfront Pkway Bldg #1200
Wichita KS 67206

Kendall Pelton
Project Number: [none]
Project: Peck TB BG



Origins Laboratory

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jordan A. Bynon For Jen Pellegrini, Project Manager

Mull Drilling
1700 N Waterfront Pkway Bldg #1200
Wichita KS 67206

Kendall Pelton
Project Number: [none]
Project: Peck TB BG

Origins Laboratory

F-012207-01-R1
Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: E410304

Client: Mull

Client Project ID: Peck TB

Checklist Completed by: EHD MS

Shipped Via: HD
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 10/9 /24

Airbill #: N/A

Matrix(s) Received: (Check all that apply): X Soil/Solid ____ Water ____ Other: ____
(Describe)

Cooler Number/Temperature: 1 13.3 °C ____/____ °C ____/____ °C ____/____ °C

Thermometer ID: T004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C[1]?	/			
Is there ice present (document if blue ice is used)	/			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		/		
Are custody seals present on each sample container? (If so, document in comments if they are signed and dated, broken or intact)		/		
Were all samples received intact[1]?	/			
Was adequate sample volume provided[1]?	/			
Are short holding time analytes or samples with HTs due within 48 hours present[1]?		/		
Is a chain-of-custody (COC) present and filled out completely[1]?	/			
Does the COC agree with the number and type of sample bottles received[1]?	/			
Do the sample IDs on the bottle labels match the COC[1]?	/			
Is the COC properly relinquished by the client with date and time recorded[1]?	/			
For volatiles in water – is there headspace (> ¼ inch bubble) present? **If yes, contact client and note in narrative.**			/	
Are samples preserved that require preservation and was it checked [1]? *(note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)*			/	
Additional Comments (if any):				

[1]If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager)

10/11 /24
Date/Time Reviewed

Origins Laboratory

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jordan A. Bynon For Jen Pellegrini, Project Manager

Mull Drilling
1700 N Waterfront Pkway Bldg #1200
Wichita KS 67206

Kendall Pelton
Project Number: [none]
Project: Peck TB BG

SP 5 1'
10/8/2024 1:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes

Origins Laboratory

E410304-01 (Soil)

pH in Soil by 9045D

pH	**8.13**			pH Units	1	B4J1809	10/18/2024	10/19/2024	

Origins Laboratory

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jordan A. Bynon For Jen Pellegrini, Project Manager

Mull Drilling
1700 N Waterfront Pkway Bldg #1200
Wichita KS 67206

Kendall Pelton
Project Number: [none]
Project: Peck TB BG

SP 5 4'
10/8/2024 1:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Origins Laboratory									
E410304-02 (Soil)									
pH in Soil by 9045D									
pH	**8.14**			pH Units	1	B4J1809	10/18/2024	10/19/2024	

Origins Laboratory

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jordan A. Bynon For Jen Pellegrini, Project Manager

Mull Drilling
1700 N Waterfront Pkway Bldg #1200
Wichita KS 67206

Kendall Pelton
Project Number: [none]
Project: Peck TB BG

SP 6 1'
10/8/2024 1:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes

Origins Laboratory

E410304-03 (Soil)

pH in Soil by 9045D

pH	**8.22**			pH Units	1	B4J1809	10/18/2024	10/19/2024	

Origins Laboratory

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jordan A. Bynon For Jen Pellegrini, Project Manager

Mull Drilling
1700 N Waterfront Pkway Bldg #1200
Wichita KS 67206

Kendall Pelton
Project Number: [none]
Project: Peck TB BG

SP 6 4'
10/8/2024 1:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes

Origins Laboratory

E410304-04 (Soil)

pH in Soil by 9045D

pH	**8.28**			pH Units	1	B4J1809	10/18/2024	10/19/2024	

Origins Laboratory

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jordan A. Bynon For Jen Pellegrini, Project Manager

Mull Drilling
1700 N Waterfront Pkway Bldg #1200
Wichita KS 67206

Kendall Pelton
Project Number: [none]
Project: Peck TB BG

SP 7 1'
10/8/2024 1:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes

Origins Laboratory

E410304-05 (Soil)

pH in Soil by 9045D

pH	**8.19**			pH Units	1	B4J1809	10/18/2024	10/19/2024	

Origins Laboratory

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jordan A. Bynon For Jen Pellegrini, Project Manager

Mull Drilling
1700 N Waterfront Pkway Bldg #1200
Wichita KS 67206

Kendall Pelton
Project Number: [none]
Project: Peck TB BG

SP 7 4'
10/8/2024 1:55:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes

Origins Laboratory

E410304-06 (Soil)

pH in Soil by 9045D

pH	**8.43**			pH Units	1	B4J1809	10/18/2024	10/19/2024	

Origins Laboratory

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jordan A. Bynon For Jen Pellegrini, Project Manager

Mull Drilling
1700 N Waterfront Pkway Bldg #1200
Wichita KS 67206

Kendall Pelton
Project Number: [none]
Project: Peck TB BG

SP 8 1'
10/8/2024 2:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes

Origins Laboratory
E410304-07 (Soil)

pH in Soil by 9045D

pH	**8.03**			pH Units	1	B4J1809	10/18/2024	10/19/2024	

Origins Laboratory

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jordan A. Bynon For Jen Pellegrini, Project Manager

Mull Drilling
1700 N Waterfront Pkway Bldg #1200
Wichita KS 67206

Kendall Pelton
Project Number: [none]
Project: Peck TB BG

SP 8 4'
10/8/2024 2:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes

Origins Laboratory
E410304-08 (Soil)

pH in Soil by 9045D

pH	**7.86**			pH Units	1	B4J1809	10/18/2024	10/19/2024	

Origins Laboratory

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jordan A. Bynon For Jen Pellegrini, Project Manager

Mull Drilling
1700 N Waterfront Pkway Bldg #1200
Wichita KS 67206

Kendall Pelton
Project Number: [none]
Project: Peck TB BG

SP 9 1'
10/8/2024 2:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes

Origins Laboratory
E410304-09 (Soil)

pH in Soil by 9045D

pH	**8.07**			pH Units	1	B4J1809	10/18/2024	10/19/2024	

Origins Laboratory

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jordan A. Bynon For Jen Pellegrini, Project Manager

Mull Drilling
1700 N Waterfront Pkway Bldg #1200
Wichita KS 67206

Kendall Pelton
Project Number: [none]
Project: Peck TB BG

SP 9 4'
10/8/2024 2:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes

Origins Laboratory
E410304-10 (Soil)

pH in Soil by 9045D

pH	**8.16**			pH Units	1	B4J1809	10/18/2024	10/19/2024	

Origins Laboratory

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jordan A. Bynon For Jen Pellegrini, Project Manager

Mull Drilling
1700 N Waterfront Pkway Bldg #1200
Wichita KS 67206

Kendall Pelton
Project Number: [none]
Project: Peck TB BG

SP 10 1'
10/8/2024 2:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes

Origins Laboratory

E410304-11 (Soil)

pH in Soil by 9045D

pH	**7.98**			pH Units	1	B4J1809	10/18/2024	10/19/2024	

Origins Laboratory

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jordan A. Bynon For Jen Pellegrini, Project Manager

Mull Drilling
1700 N Waterfront Pkway Bldg #1200
Wichita KS 67206

Kendall Pelton
Project Number: [none]
Project: Peck TB BG

SP 10 4'
10/8/2024 2:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes

Origins Laboratory
E410304-12 (Soil)

pH in Soil by 9045D

pH	**7.98**			pH Units	1	B4J1809	10/18/2024	10/19/2024	

Origins Laboratory

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jordan A. Bynon For Jen Pellegrini, Project Manager

Mull Drilling
1700 N Waterfront Pkway Bldg #1200
Wichita KS 67206

Kendall Pelton
Project Number: [none]
Project: Peck TB BG

Saturated Paste - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4J1809 - Saturated Paste pH/EC										
Duplicate (B4J1809-DUP1)		**Source: E410072-02**			Prepared: 10/18/2024 Analyzed: 10/19/2024					
pH	8.13		pH Units		8.11			0.246	25	

Origins Laboratory

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jordan A. Bynon For Jen Pellegrini, Project Manager

Mull Drilling
1700 N Waterfront Pkway Bldg #1200
Wichita KS 67206

Kendall Pelton
Project Number: [none]
Project: Peck TB BG

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jordan A. Bynon For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

March 14, 2024

Mull Drilling

Trisha Fanning

1700 N Waterfront Pkway Bldg #1200

Wichita KS 67206

Project Name - Peck TB BG **Project Number - [none]**

Attached are your analytical results for Peck TB BG received by Origins Laboratory, Inc. March 01, 2024. This project is associated with Origins project number Y403014-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com

THE NELAC INSTITUTE

ORIGINS LABORATORY, INC

Mull Drilling
1700 N Waterfront Pkway Bldg #1200
Wichita KS 67206

Trisha Fanning
Project Number: [none]
Project: Peck TB BG

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BG-01@1'	Y403014-01	Soil	February 29, 2024 9:17	03/01/2024 11:30
BG-01@4'	Y403014-02	Soil	February 29, 2024 9:23	03/01/2024 11:30
BG-02@1'	Y403014-03	Soil	February 29, 2024 9:27	03/01/2024 11:30
BG-02@4'	Y403014-04	Soil	February 29, 2024 9:31	03/01/2024 11:30
BG-03@1'	Y403014-05	Soil	February 29, 2024 9:34	03/01/2024 11:30
BG-03@4'	Y403014-06	Soil	February 29, 2024 9:37	03/01/2024 11:30

Origins Laboratory, Inc.

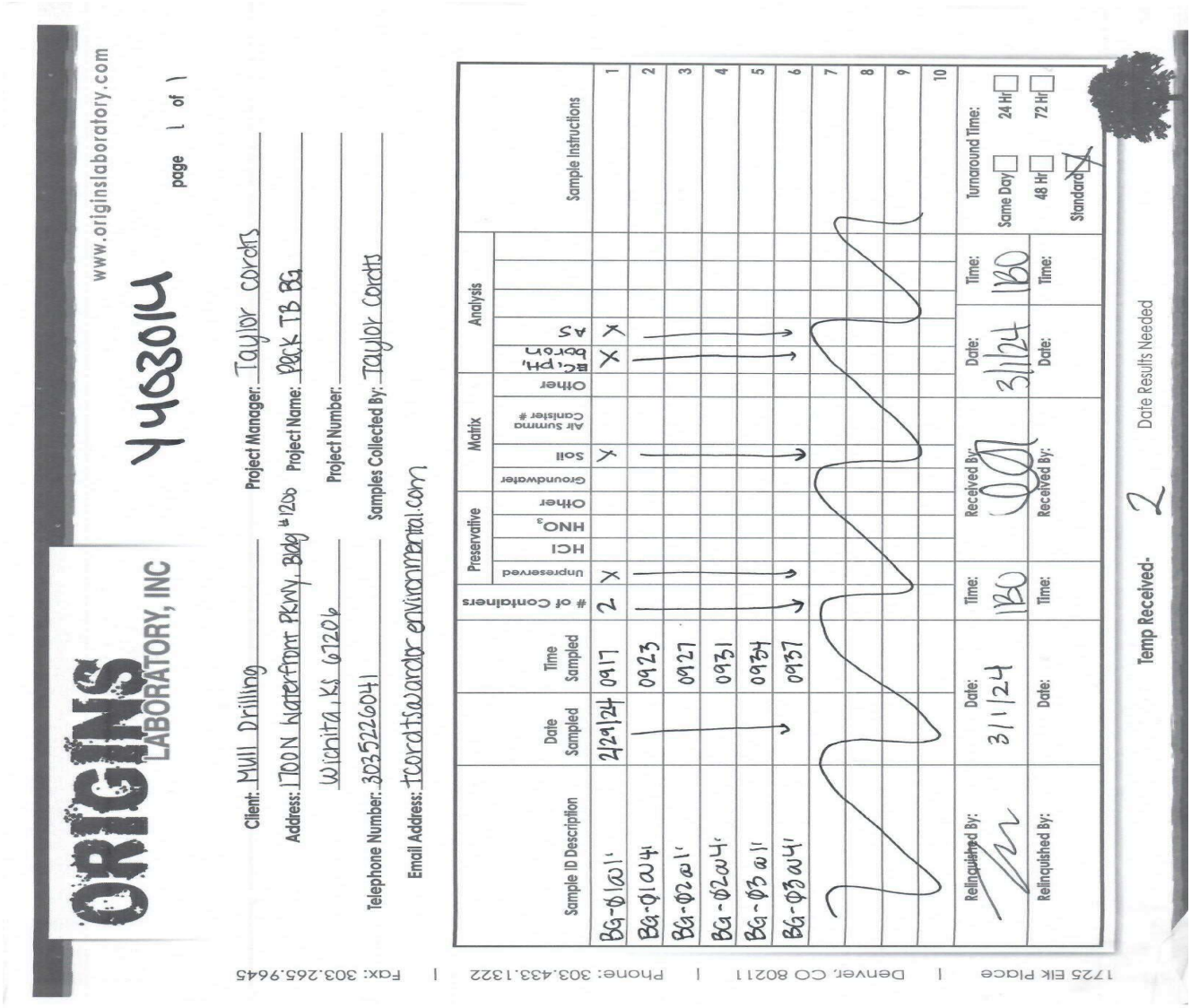
The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jordan A. Bynon For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

Mull Drilling
1700 N Waterfront Pkway Bldg #1200
Wichita KS 67206

Trisha Fanning
Project Number: [none]
Project: Peck TB BG



Origins Laboratory, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jordan A. Bynon For Jen Pellegrini, Project Manager

Mull Drilling
1700 N Waterfront Pkway Bldg #1200
Wichita KS 67206

Trisha Fanning
Project Number: [none]
Project: Peck TB BG

Origins Laboratory

F-012207-01-R1
Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: 440314
Client: Mull Drilling
Client Project ID: PECK TB BG

Checklist Completed by: JJT/EHS
Shipped Via: HLO (UPS, FedEx, Hand Delivered, Pick-up, etc.)
Date/time completed: 3/01/24
Airbill #: N/A

Matrix(s) Received: (Check all that apply): X Soil/Solid ____Water ____Other:____ (Describe)

Cooler Number/Temperature: 1 / 2 °C ____/____ °C ____/____ °C ____/____ °C

Thermometer ID: T004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C[1]?	✓			
Is there ice present (document if blue ice is used)	✓			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		✓		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		✓		
Were all samples received intact[1]?	✓			
Was adequate sample volume provided[1]?	✓			
Are short holding time analytes or samples with HTs due within 48 hours present[1]?		✓		
Is a chain-of-custody (COC) present and filled out completely[1]?	✓			
Does the COC agree with the number and type of sample bottles received[1]?	✓			
Do the sample IDs on the bottle labels match the COC[1]?	✓			
Is the COC properly relinquished by the client with date and time recorded[1]?	✓			
For volatiles in water – is there headspace (> ¼ inch bubble) present? **If yes, contact client and note in narrative.**			✓	
Are samples preserved that require preservation and was it checked [1]? *(note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)*			✓	
Additional Comments (if any):				

[1]*If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.*

Reviewed by (Project Manager) 3/4/24 Date/Time Reviewed

Origins Laboratory, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jordan A. Bynon For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

Mull Drilling
1700 N Waterfront Pkway Bldg #1200
Wichita KS 67206

Trisha Fanning
Project Number: [none]
Project: Peck TB BG

BG-01@1'
2/29/2024 9:17:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
Origins Laboratory, Inc.									
Y403014-01 (Soil)									
Boron (DTPA Sorbitol)									
Boron	**0.484**	0.102	mg/L	1	B4C0715	ACC	03/07/2024	03/12/2024	
pH in Soil by 9045D									
pH	**7.89**		pH Units	1	B4C0522	EAL	03/05/2024	03/07/2024	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	**0.779**	0.00500	mmhos/cm	"	"	EAL	"	"	
Table 915 metals by EPA 6020B									
Arsenic	**7.60**	0.268	mg/kg	10	B4C0125	HJD	03/01/2024	03/08/2024	

Origins Laboratory, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jordan A. Bynon For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

Mull Drilling
1700 N Waterfront Pkway Bldg #1200
Wichita KS 67206

Trisha Fanning
Project Number: [none]
Project: Peck TB BG

BG-01@4'
2/29/2024 9:23:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes

Origins Laboratory, Inc.
Y403014-02 (Soil)

Boron (DTPA Sorbitol)

Boron	**0.168**	0.101	mg/L	1	B4C0715	ACC	03/07/2024	03/12/2024

pH in Soil by 9045D

pH	**8.33**		pH Units	1	B4C0522	EAL	03/05/2024	03/07/2024

Specific Conductance Mod. 9050A

Specific Conductance (EC)	**0.219**	0.00500	mmhos/cm	"	"	EAL	"	"

Table 915 metals by EPA 6020B

Arsenic	**5.01**	0.261	mg/kg	10	B4C0125	HJD	03/01/2024	03/08/2024

Origins Laboratory, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jordan A. Bynon For Jen Pellegrini, Project Manager

Mull Drilling
1700 N Waterfront Pkway Bldg #1200
Wichita KS 67206

Trisha Fanning
Project Number: [none]
Project: Peck TB BG

BG-02@1'
2/29/2024 9:27:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
Origins Laboratory, Inc.									
Y403014-03 (Soil)									
Boron (DTPA Sorbitol)									
Boron	**0.392**	0.0987	mg/L	1	B4C0715	ACC	03/07/2024	03/12/2024	
pH in Soil by 9045D									
pH	**8.05**		pH Units	1	B4C0522	EAL	03/05/2024	03/07/2024	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	**0.437**	0.00500	mmhos/cm	"	"	EAL	"	"	
Table 915 metals by EPA 6020B									
Arsenic	**8.51**	0.281	mg/kg	10	B4C0125	HJD	03/01/2024	03/08/2024	

Origins Laboratory, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jordan A. Bynon For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

Mull Drilling
1700 N Waterfront Pkway Bldg #1200
Wichita KS 67206

Trisha Fanning
Project Number: [none]
Project: Peck TB BG

BG-02@4'
2/29/2024 9:31:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
Origins Laboratory, Inc.									
Y403014-04 (Soil)									
Boron (DTPA Sorbitol)									
Boron	**1.16**	0.100	mg/L	1	B4C0715	ACC	03/07/2024	03/12/2024	
pH in Soil by 9045D									
pH	**8.48**		pH Units	1	B4C0522	EAL	03/05/2024	03/07/2024	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	**0.349**	0.00500	mmhos/cm	"	"	EAL	"	"	
Table 915 metals by EPA 6020B									
Arsenic	**6.58**	0.258	mg/kg	10	B4C0125	HJD	03/01/2024	03/08/2024	

Origins Laboratory, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jordan A. Bynon For Jen Pellegrini, Project Manager

Mull Drilling
1700 N Waterfront Pkway Bldg #1200
Wichita KS 67206

Trisha Fanning
Project Number: [none]
Project: Peck TB BG

BG-03@1'
2/29/2024 9:34:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes

Origins Laboratory, Inc.

Y403014-05 (Soil)

Boron (DTPA Sorbitol)

Boron	**0.369**	0.0984	mg/L	1	B4C0715	ACC	03/07/2024	03/12/2024

pH in Soil by 9045D

pH	**7.82**		pH Units	1	B4C0522	EAL	03/05/2024	03/07/2024

Specific Conductance Mod. 9050A

Specific Conductance (EC)	**1.37**	0.00500	mmhos/cm	"	"	EAL	"	"

Table 915 metals by EPA 6020B

Arsenic	**8.82**	0.266	mg/kg	10	B4C0125	HJD	03/01/2024	03/08/2024

Origins Laboratory, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jordan A. Bynon For Jen Pellegrini, Project Manager

Mull Drilling
1700 N Waterfront Pkway Bldg #1200
Wichita KS 67206

Trisha Fanning
Project Number: [none]
Project: Peck TB BG

BG-03@4'
2/29/2024 9:37:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
Origins Laboratory, Inc.									
Y403014-06 (Soil)									
Boron (DTPA Sorbitol)									
Boron	**0.634**	0.101	mg/L	1	B4C0715	ACC	03/07/2024	03/12/2024	
pH in Soil by 9045D									
pH	**7.93**		pH Units	1	B4C0522	EAL	03/05/2024	03/07/2024	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	**1.78**	0.00500	mmhos/cm	"	"	EAL	"	"	
Table 915 metals by EPA 6020B									
Arsenic	**7.95**	0.262	mg/kg	10	B4C0125	HJD	03/01/2024	03/08/2024	

Origins Laboratory, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jordan A. Bynon For Jen Pellegrini, Project Manager

Mull Drilling
1700 N Waterfront Pkway Bldg #1200
Wichita KS 67206

Trisha Fanning
Project Number: [none]
Project: Peck TB BG

Metals by EPA 6000/7000 Series Methods - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4C0125 - EPA 3050B										
Blank (B4C0125-BLK1)					Prepared: 03/01/2024 Analyzed: 03/08/2024					
Arsenic	ND	0.290	mg/kg							
LCS (B4C0125-BS1)					Prepared: 03/01/2024 Analyzed: 03/08/2024					
Arsenic	5.56	0.290	mg/kg	5.00		111	80-120			
Matrix Spike (B4C0125-MS1)		**Source: Y403011-02**			Prepared: 03/01/2024 Analyzed: 03/08/2024					
Arsenic	19.5	0.265	mg/kg	4.57	15.0	99.8	75-125			
Matrix Spike Dup (B4C0125-MSD1)		**Source: Y403011-02**			Prepared: 03/01/2024 Analyzed: 03/08/2024					
Arsenic	19.4	0.255	mg/kg	4.39	15.0	101	75-125	0.690	20	

Origins Laboratory, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jordan A. Bynon For Jen Pellegrini, Project Manager

Mull Drilling
1700 N Waterfront Pkway Bldg #1200
Wichita KS 67206

Trisha Fanning
Project Number: [none]
Project: Peck TB BG

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4C0715 - DTPA Sorbitol Preparation										
Blank (B4C0715-BLK1)					Prepared: 03/07/2024 Analyzed: 03/12/2024					
Boron	ND	0.100	mg/L							
Duplicate (B4C0715-DUP1)		**Source: Y402770-03**			Prepared: 03/07/2024 Analyzed: 03/12/2024					
Boron	0.468	0.0991	mg/L		0.465			0.670	50	

Origins Laboratory, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jordan A. Bynon For Jen Pellegrini, Project Manager

Mull Drilling
1700 N Waterfront Pkway Bldg #1200
Wichita KS 67206

Trisha Fanning
Project Number: [none]
Project: Peck TB BG

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4C0522 - Saturated Paste pH/EC										
Blank (B4C0522-BLK1)					Prepared: 03/05/2024 Analyzed: 03/07/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B4C0522-DUP1)		**Source: Y403014-01**			Prepared: 03/05/2024 Analyzed: 03/07/2024					
Specific Conductance (EC)	0.772	0.00500	mmhos/cm		0.779			0.890	25	
pH	7.89		pH Units		7.89			0.00	25	

Origins Laboratory, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jordan A. Bynon For Jen Pellegrini, Project Manager

Mull Drilling
1700 N Waterfront Pkway Bldg #1200
Wichita KS 67206

Trisha Fanning
Project Number: [none]
Project: Peck TB BG

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jordan A. Bynon For Jen Pellegrini, Project Manager

13-Nov-2023

James Beilman
Mull Drilling Company
1700 N Waterfront Pkwy, Bld. 1200
Wichita, KS 67206

Re: **Peck Tank Battery** Work Order: **23102587**

Dear James,

ALS Environmental received 7 samples on 28-Oct-2023 09:15 AM 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 49.

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,

Electronically approved by: Chad Whelton

Chad Whelton
Project Manager

ALS Group, USA

Date: 13-Nov-23

Client: Mull Drilling Company
Project: Peck Tank Battery
Work Order: **23102587**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
23102587-01	SB 1	Soil		10/25/2023 12:15	10/28/2023 09:15	☐
23102587-02	SB 1 4'	Soil		10/25/2023 12:20	10/28/2023 09:15	☐
23102587-03	SB 2	Soil		10/25/2023 12:25	10/28/2023 09:15	☐
23102587-04	SB 3	Soil		10/25/2023 12:30	10/28/2023 09:15	☐
23102587-05	SB 4	Soil		10/25/2023 12:35	10/28/2023 09:15	☐
23102587-06	SB 5	Soil		10/25/2023 12:40	10/28/2023 09:15	☐
23102587-07	Trip Blank	Water		10/25/2023	10/28/2023 09:15	☐

Client: Mull Drilling Company
Project: Peck Tank Battery
Work Order: 23102587

Case Narrative

The attached "Sample Receipt Checklist" documents the date of receipt, 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. A copy of the laboratory's scope of accreditation is available upon request.

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.

Any flags on MS/MSD samples not addressed in this narrative are unrelated to samples in this report.

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

Batch 228540, Method SW8270E, Sample SB 5 (23102587-06A): One or more surrogate recoveries were below the lower control limits. The sample results may be biased low.

Batch 228795, Method SW8270E, Sample SB 5 (23102587-06A): Low surrogate recovery due to sample matrix confirmed by re-extraction.

Batch R388669a, Method SW8260D, Samples 23102587-03C through -06C: Samples were analyzed outside of holding time due to quality control failure in the initial run. Sample results should be considered as estimated.

Batch 228614, Method SW7196A, Sample 23102587-06A MS/MSD: The MS/MSD recovery was below the lower control limit. The corresponding result in the parent sample may be biased low for this analyte: Hexavalent chromium.

Client: Mull Drilling Company
Project: Peck Tank Battery
WorkOrder: **23102587**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	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
n	Analyte accreditation is not offered
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.

Acronym	Description
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

Units Reported	Description
% of sample	Percent of Sample
µg/Kg-dry	Micrograms per Kilogram Dry Weight
µg/L	Micrograms per Liter
mg/Kg-dry	Milligrams per Kilogram Dry Weight
mg/L	Milligrams per Liter
mmhos/cm @25°C	Millimhos-Centimeter at 25 Degrees Celcius

none

ALS Group, USA

Date: *13-Nov-23*

Client: Mull Drilling Company
Project: Peck Tank Battery
Sample ID: SB 1
Collection Date: 10/25/2023 12:15 PM

Work Order: 23102587
Lab ID: 23102587-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID		Method: **SW8015C**			Prep: SW3546 / 11/3/23		Analyst: **SJB**
ERO (C10-C36)	**8.3**	J	**3.2**	**24**	**mg/Kg-dry**	1	11/4/2023 12:08
Surr: 4-Terphenyl-d14	*56.4*			*34-130*	*%REC*	1	11/4/2023 12:08
GASOLINE RANGE ORGANICS BY GC-FID		Method: **SW8015C**			Prep: SW5035A / 10/31/23		Analyst: **SJB**
GRO (C6-C10)	U		18,000	19,000	µg/Kg-dry	1	11/1/2023 22:00
Surr: Toluene-d8	*110*			*75-120*	*%REC*	1	11/1/2023 22:00
METALS BY ICP-MS		Method: **SW6020B**			Prep: SW3050B / 11/1/23		Analyst: **STP**
Arsenic	**5.9**		**0.043**	**0.36**	**mg/Kg-dry**	1	11/2/2023 01:22
Barium	**170**		**3.3**	**3.6**	**mg/Kg-dry**	10	11/2/2023 17:29
Cadmium	**0.15**		**0.021**	**0.14**	**mg/Kg-dry**	1	11/2/2023 01:22
Copper	**11**		**0.36**	**0.36**	**mg/Kg-dry**	1	11/2/2023 01:22
Lead	**12**		**0.17**	**0.36**	**mg/Kg-dry**	1	11/2/2023 01:22
Nickel	**11**		**0.19**	**0.36**	**mg/Kg-dry**	1	11/2/2023 01:22
Selenium	**0.45**		**0.33**	**0.36**	**mg/Kg-dry**	1	11/2/2023 01:22
Silver	**0.054**	J	**0.047**	**0.36**	**mg/Kg-dry**	1	11/2/2023 01:22
Zinc	**34**		**0.70**	**0.72**	**mg/Kg-dry**	1	11/2/2023 01:22
SOLUBLE CATIONS FOR SAR		Method: **SW6020B**			Prep: USDA Method 20B / 11/3/23		Analyst: **STP**
Calcium	**190**		**2.5**	**5.0**	**mg/L**	10	11/6/2023 19:17
Magnesium	**29**		**0.50**	**2.0**	**mg/L**	10	11/6/2023 19:17
Sodium	**18**		**1.8**	**2.0**	**mg/L**	10	11/6/2023 19:17
HOT WATER SOLUBLE BORON BY ICP-MS		Method: **SW6020B**			Prep: EXTRACT / 10/31/23		Analyst: **DSC**
Boron (Hot Water Soluble)	**0.61**		**0.019**	**0.48**	**mg/Kg-dry**	10	10/31/2023 19:25
SODIUM ADSORPTION RATIO		Method: **USDA H60 METHOD 20B**			Prep: USDA Method 20B / 11/3/23		Analyst: **STP**
Sodium Adsorption Ratio	**0.32**		**0.010**	**0.010**	**none**	1	11/6/2023
POLYNUCLEAR AROMATIC HYDROCARBONS (SIM)		Method: **SW8270E**			Prep: SW3546 / 11/3/23		Analyst: **SMT**
1-Methylnaphthalene	U		1.0	5.1	µg/Kg-dry	1	11/7/2023 00:41
2-Methylnaphthalene	U		1.2	5.1	µg/Kg-dry	1	11/7/2023 00:41
Acenaphthene	U		1.9	5.1	µg/Kg-dry	1	11/7/2023 00:41
Anthracene	U		0.93	5.1	µg/Kg-dry	1	11/7/2023 00:41
Benzo(a)anthracene	U		3.7	5.1	µg/Kg-dry	1	11/7/2023 00:41
Benzo(a)pyrene	U		3.4	5.1	µg/Kg-dry	1	11/7/2023 00:41
Benzo(b)fluoranthene	U		3.1	5.1	µg/Kg-dry	1	11/7/2023 00:41
Benzo(k)fluoranthene	U		0.76	5.1	µg/Kg-dry	1	11/7/2023 00:41
Chrysene	U		3.4	5.1	µg/Kg-dry	1	11/7/2023 00:41

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

Client: Mull Drilling Company
Project: Peck Tank Battery
Sample ID: SB 1
Collection Date: 10/25/2023 12:15 PM

Work Order: 23102587
Lab ID: 23102587-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Dibenzo(a,h)anthracene	U		2.9	5.1	µg/Kg-dry	1	11/7/2023 00:41
Fluoranthene	U		2.5	5.1	µg/Kg-dry	1	11/7/2023 00:41
Fluorene	U		1.3	5.1	µg/Kg-dry	1	11/7/2023 00:41
Indeno(1,2,3-cd)pyrene	U		3.5	5.1	µg/Kg-dry	1	11/7/2023 00:41
Naphthalene	U		0.96	5.1	µg/Kg-dry	1	11/7/2023 00:41
Pyrene	U		3.2	5.1	µg/Kg-dry	1	11/7/2023 00:41
Surr: 2-Fluorobiphenyl	*82.1*			*20-140*	*%REC*	1	11/7/2023 00:41
Surr: 4-Terphenyl-d14	*77.0*			*22-172*	*%REC*	1	11/7/2023 00:41
Surr: Nitrobenzene-d5	*93.6*			*28-140*	*%REC*	1	11/7/2023 00:41
VOLATILE ORGANIC COMPOUNDS - LOW LEVEL		Method: **SW8260D**					Analyst: **SBR**
1,2,4-Trimethylbenzene	U		2.9	8.2	µg/Kg-dry	1.32	11/8/2023 20:05
1,3,5-Trimethylbenzene	U		2.6	8.2	µg/Kg-dry	1.32	11/8/2023 20:05
Benzene	U		0.85	8.2	µg/Kg-dry	1.32	11/8/2023 20:05
Ethylbenzene	U		1.4	8.2	µg/Kg-dry	1.32	11/8/2023 20:05
m,p-Xylene	U		3.6	4.1	µg/Kg-dry	1.32	11/8/2023 20:05
o-Xylene	U		2.0	4.1	µg/Kg-dry	1.32	11/8/2023 20:05
Toluene	U		2.8	8.2	µg/Kg-dry	1.32	11/8/2023 20:05
Xylenes, Total	U		3.6	8.2	µg/Kg-dry	1.32	11/8/2023 20:05
Surr: 1,2-Dichloroethane-d4	*108*			*83-132*	*%REC*	1.32	11/8/2023 20:05
Surr: 4-Bromofluorobenzene	*96.4*			*83-111*	*%REC*	1.32	11/8/2023 20:05
Surr: Dibromofluoromethane	*104*			*77-125*	*%REC*	1.32	11/8/2023 20:05
Surr: Toluene-d8	*97.0*			*86-108*	*%REC*	1.32	11/8/2023 20:05
ELECTRICAL CONDUCTIVITY (SAR)		Method: **USDA H60 METHOD 20B**			Prep: USDA Method 20B / 11/3/23		Analyst: **CLJ**
Electrical Conductivity @ Saturation	**1.7**		**0.011**	**0.10**	**mmhos/cm @25°C**	20	11/4/2023 11:30
CHROMIUM, HEXAVALENT		Method: **SW7196A**			Prep: SW3060A / 11/4/23		Analyst: **AXW**
Chromium, Hexavalent	U		1.0	1.2	mg/Kg-dry	1	11/5/2023 15:02
MOISTURE		Method: **SW3550C**					Analyst: **SGH**
Moisture	**19**		**0.10**	**0.10**	**% of sample**	1	10/31/2023 13:22
PH MEASURED IN SOIL PASTE		Method: **USDA METHOD 20B**			Prep: USDA Method 20B / 11/3/23		Analyst: **CLJ**
pH @ Saturation	**9.53**		**0.12**	**0.12**	**s.u.-dry**	1	11/4/2023 10:31

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

ALS Group, USA

Date: *13-Nov-23*

Client: Mull Drilling Company
Project: Peck Tank Battery
Sample ID: SB 1 4'
Collection Date: 10/25/2023 12:20 PM

Work Order: 23102587
Lab ID: 23102587-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID		Method: **SW8015C**			Prep: SW3546 / 11/3/23		Analyst: **SJB**
ERO (C10-C36)	**6.1**	J	**3.1**	**23**	**mg/Kg-dry**	1	11/4/2023 13:59
Surr: 4-Terphenyl-d14	*56.4*			*34-130*	*%REC*	1	11/4/2023 13:59
GASOLINE RANGE ORGANICS BY GC-FID		Method: **SW8015C**			Prep: SW5035A / 10/31/23		Analyst: **SJB**
GRO (C6-C10)	U		10,000	11,000	µg/Kg-dry	1	11/1/2023 22:22
Surr: Toluene-d8	*108*			*75-120*	*%REC*	1	11/1/2023 22:22
METALS BY ICP-MS		Method: **SW6020B**			Prep: SW3050B / 11/1/23		Analyst: **STP**
Arsenic	**4.6**		**0.043**	**0.36**	**mg/Kg-dry**	1	11/2/2023 01:24
Barium	**320**		**3.3**	**3.6**	**mg/Kg-dry**	10	11/2/2023 17:30
Cadmium	**0.087**	J	**0.022**	**0.14**	**mg/Kg-dry**	1	11/2/2023 01:24
Copper	**9.3**		**0.36**	**0.36**	**mg/Kg-dry**	1	11/2/2023 01:24
Lead	**12**		**0.17**	**0.36**	**mg/Kg-dry**	1	11/2/2023 01:24
Nickel	**10**		**0.19**	**0.36**	**mg/Kg-dry**	1	11/2/2023 01:24
Selenium	U		0.33	0.36	mg/Kg-dry	1	11/2/2023 01:24
Silver	U		0.047	0.36	mg/Kg-dry	1	11/2/2023 01:24
Zinc	**32**		**0.70**	**0.72**	**mg/Kg-dry**	1	11/2/2023 01:24
SOLUBLE CATIONS FOR SAR		Method: **SW6020B**			Prep: USDA Method 20B / 11/3/23		Analyst: **STP**
Calcium	**120**		**2.5**	**5.0**	**mg/L**	10	11/6/2023 19:22
Magnesium	**47**		**0.50**	**2.0**	**mg/L**	10	11/6/2023 19:22
Sodium	**60**		**1.8**	**2.0**	**mg/L**	10	11/6/2023 19:22
HOT WATER SOLUBLE BORON BY ICP-MS		Method: **SW6020B**			Prep: EXTRACT / 10/31/23		Analyst: **DSC**
Boron (Hot Water Soluble)	**0.77**		**0.019**	**0.48**	**mg/Kg-dry**	10	10/31/2023 19:27
SODIUM ADSORPTION RATIO		Method: **USDA H60 METHOD 20B**			Prep: USDA Method 20B / 11/3/23		Analyst: **STP**
Sodium Adsorption Ratio	**1.2**		**0.010**	**0.010**	**none**	1	11/6/2023
POLYNUCLEAR AROMATIC HYDROCARBONS (SIM)		Method: **SW8270E**			Prep: SW3546 / 11/3/23		Analyst: **SMT**
1-Methylnaphthalene	U		1.0	4.9	µg/Kg-dry	1	11/7/2023 00:57
2-Methylnaphthalene	U		1.2	4.9	µg/Kg-dry	1	11/7/2023 00:57
Acenaphthene	U		1.9	4.9	µg/Kg-dry	1	11/7/2023 00:57
Anthracene	U		0.90	4.9	µg/Kg-dry	1	11/7/2023 00:57
Benzo(a)anthracene	U		3.5	4.9	µg/Kg-dry	1	11/7/2023 00:57
Benzo(a)pyrene	U		3.3	4.9	µg/Kg-dry	1	11/7/2023 00:57
Benzo(b)fluoranthene	U		3.0	4.9	µg/Kg-dry	1	11/7/2023 00:57
Benzo(k)fluoranthene	U		0.74	4.9	µg/Kg-dry	1	11/7/2023 00:57
Chrysene	U		3.3	4.9	µg/Kg-dry	1	11/7/2023 00:57

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

Client: Mull Drilling Company
Project: Peck Tank Battery
Sample ID: SB 1 4'
Collection Date: 10/25/2023 12:20 PM

Work Order: 23102587
Lab ID: 23102587-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Dibenzo(a,h)anthracene	U		2.9	4.9	µg/Kg-dry	1	11/7/2023 00:57
Fluoranthene	U		2.5	4.9	µg/Kg-dry	1	11/7/2023 00:57
Fluorene	U		1.2	4.9	µg/Kg-dry	1	11/7/2023 00:57
Indeno(1,2,3-cd)pyrene	U		3.4	4.9	µg/Kg-dry	1	11/7/2023 00:57
Naphthalene	U		0.93	4.9	µg/Kg-dry	1	11/7/2023 00:57
Pyrene	U		3.1	4.9	µg/Kg-dry	1	11/7/2023 00:57
Surr: 2-Fluorobiphenyl	*83.7*			*20-140*	*%REC*	1	11/7/2023 00:57
Surr: 4-Terphenyl-d14	*78.0*			*22-172*	*%REC*	1	11/7/2023 00:57
Surr: Nitrobenzene-d5	*96.2*			*28-140*	*%REC*	1	11/7/2023 00:57
VOLATILE ORGANIC COMPOUNDS - LOW LEVEL		Method:	**SW8260D**				Analyst: **SBR**
1,2,4-Trimethylbenzene	U		4.7	13	µg/Kg-dry	1	11/3/2023 03:32
1,3,5-Trimethylbenzene	U		4.2	13	µg/Kg-dry	1	11/3/2023 03:32
Benzene	U		1.4	13	µg/Kg-dry	1	11/3/2023 03:32
Ethylbenzene	U		2.3	13	µg/Kg-dry	1	11/3/2023 03:32
m,p-Xylene	U		5.7	6.5	µg/Kg-dry	1	11/3/2023 03:32
o-Xylene	U		3.1	6.5	µg/Kg-dry	1	11/3/2023 03:32
Toluene	U		4.5	13	µg/Kg-dry	1	11/3/2023 03:32
Xylenes, Total	U		5.7	13	µg/Kg-dry	1	11/3/2023 03:32
Surr: 1,2-Dichloroethane-d4	*121*			*83-132*	*%REC*	1	11/3/2023 03:32
Surr: 4-Bromofluorobenzene	*109*			*83-111*	*%REC*	1	11/3/2023 03:32
Surr: Dibromofluoromethane	*107*			*77-125*	*%REC*	1	11/3/2023 03:32
Surr: Toluene-d8	*103*			*86-108*	*%REC*	1	11/3/2023 03:32
ELECTRICAL CONDUCTIVITY (SAR)		Method:	**USDA H60 METHOD 20B**		Prep: USDA Method 20B / 11/3/23		Analyst: **CLJ**
Electrical Conductivity @ Saturation	**1.5**		**0.011**	**0.10**	**mmhos/cm @25°C**	20	11/4/2023 11:30
CHROMIUM, HEXAVALENT		Method:	**SW7196A**		Prep: SW3060A / 11/4/23		Analyst: **AXW**
Chromium, Hexavalent	U		0.99	1.2	mg/Kg-dry	1	11/5/2023 15:02
MOISTURE		Method:	**SW3550C**				Analyst: **SGH**
Moisture	**17**		**0.10**	**0.10**	**% of sample**	1	10/31/2023 13:22
PH MEASURED IN SOIL PASTE		Method:	**USDA METHOD 20B**		Prep: USDA Method 20B / 11/3/23		Analyst: **CLJ**
pH @ Saturation	**9.37**		**0.12**	**0.12**	**s.u.-dry**	1	11/4/2023 10:31

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

ALS Group, USA

Date: *13-Nov-23*

Client: Mull Drilling Company
Project: Peck Tank Battery
Sample ID: SB 2
Collection Date: 10/25/2023 12:25 PM

Work Order: 23102587
Lab ID: 23102587-03
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID		Method: **SW8015C**			Prep: SW3546 / 11/3/23		Analyst: **SJB**
ERO (C10-C36)	**9.4**	J	**2.8**	**21**	**mg/Kg-dry**	1	11/4/2023 14:36
Surr: 4-Terphenyl-d14	*58.4*			*34-130*	*%REC*	1	11/4/2023 14:36
GASOLINE RANGE ORGANICS BY GC-FID		Method: **SW8015C**			Prep: SW5035A / 10/31/23		Analyst: **SJB**
GRO (C6-C10)	U		7,900	8,500	µg/Kg-dry	1	11/2/2023 00:36
Surr: Toluene-d8	*104*			*75-120*	*%REC*	1	11/2/2023 00:36
METALS BY ICP-MS		Method: **SW6020B**			Prep: SW3050B / 11/1/23		Analyst: **STP**
Arsenic	**4.9**		**0.034**	**0.28**	**mg/Kg-dry**	1	11/2/2023 01:26
Barium	**170**		**2.6**	**2.8**	**mg/Kg-dry**	10	11/2/2023 17:32
Cadmium	**0.12**		**0.017**	**0.11**	**mg/Kg-dry**	1	11/2/2023 01:26
Copper	**9.6**		**0.28**	**0.28**	**mg/Kg-dry**	1	11/2/2023 01:26
Lead	**13**		**0.14**	**0.28**	**mg/Kg-dry**	1	11/2/2023 01:26
Nickel	**9.4**		**0.15**	**0.28**	**mg/Kg-dry**	1	11/2/2023 01:26
Selenium	**0.36**		**0.26**	**0.28**	**mg/Kg-dry**	1	11/2/2023 01:26
Silver	**0.046**	J	**0.038**	**0.28**	**mg/Kg-dry**	1	11/2/2023 01:26
Zinc	**35**		**0.56**	**0.57**	**mg/Kg-dry**	1	11/2/2023 01:26
SOLUBLE CATIONS FOR SAR		Method: **SW6020B**			Prep: USDA Method 20B / 11/3/23		Analyst: **STP**
Calcium	**74**		**2.5**	**5.0**	**mg/L**	10	11/6/2023 19:24
Magnesium	**14**		**0.50**	**2.0**	**mg/L**	10	11/6/2023 19:24
Sodium	**14**		**1.8**	**2.0**	**mg/L**	10	11/6/2023 19:24
HOT WATER SOLUBLE BORON BY ICP-MS		Method: **SW6020B**			Prep: EXTRACT / 10/31/23		Analyst: **DSC**
Boron (Hot Water Soluble)	**0.83**		**0.017**	**0.42**	**mg/Kg-dry**	10	10/31/2023 19:28
SODIUM ADSORPTION RATIO		Method: **USDA H60 METHOD 20B**			Prep: USDA Method 20B / 11/3/23		Analyst: **STP**
Sodium Adsorption Ratio	**0.40**		**0.010**	**0.010**	**none**	1	11/6/2023
POLYNUCLEAR AROMATIC HYDROCARBONS (SIM)		Method: **SW8270E**			Prep: SW3546 / 11/3/23		Analyst: **SMT**
1-Methylnaphthalene	U		0.91	4.4	µg/Kg-dry	1	11/7/2023 01:13
2-Methylnaphthalene	U		1.0	4.4	µg/Kg-dry	1	11/7/2023 01:13
Acenaphthene	U		1.7	4.4	µg/Kg-dry	1	11/7/2023 01:13
Anthracene	U		0.81	4.4	µg/Kg-dry	1	11/7/2023 01:13
Benzo(a)anthracene	U		3.2	4.4	µg/Kg-dry	1	11/7/2023 01:13
Benzo(a)pyrene	U		3.0	4.4	µg/Kg-dry	1	11/7/2023 01:13
Benzo(b)fluoranthene	U		2.7	4.4	µg/Kg-dry	1	11/7/2023 01:13
Benzo(k)fluoranthene	U		0.67	4.4	µg/Kg-dry	1	11/7/2023 01:13
Chrysene	U		2.9	4.4	µg/Kg-dry	1	11/7/2023 01:13

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

Client: Mull Drilling Company
Project: Peck Tank Battery
Sample ID: SB 2
Collection Date: 10/25/2023 12:25 PM

Work Order: 23102587
Lab ID: 23102587-03
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Dibenzo(a,h)anthracene	U		2.6	4.4	µg/Kg-dry	1	11/7/2023 01:13
Fluoranthene	U		2.2	4.4	µg/Kg-dry	1	11/7/2023 01:13
Fluorene	U		1.1	4.4	µg/Kg-dry	1	11/7/2023 01:13
Indeno(1,2,3-cd)pyrene	U		3.1	4.4	µg/Kg-dry	1	11/7/2023 01:13
Naphthalene	U		0.84	4.4	µg/Kg-dry	1	11/7/2023 01:13
Pyrene	U		2.8	4.4	µg/Kg-dry	1	11/7/2023 01:13
Surr: 2-Fluorobiphenyl	*85.7*			*20-140*	*%REC*	1	11/7/2023 01:13
Surr: 4-Terphenyl-d14	*76.0*			*22-172*	*%REC*	1	11/7/2023 01:13
Surr: Nitrobenzene-d5	*103*			*28-140*	*%REC*	1	11/7/2023 01:13
VOLATILE ORGANIC COMPOUNDS - LOW LEVEL		Method:	**SW8260D**				Analyst: **SBR**
1,2,4-Trimethylbenzene	U	H	3.4	9.4	µg/Kg-dry	1.74	11/9/2023 01:19
1,3,5-Trimethylbenzene	U	H	3.0	9.4	µg/Kg-dry	1.74	11/9/2023 01:19
Benzene	U	H	0.98	9.4	µg/Kg-dry	1.74	11/9/2023 01:19
Ethylbenzene	U	H	1.6	9.4	µg/Kg-dry	1.74	11/9/2023 01:19
m,p-Xylene	U	H	4.1	4.7	µg/Kg-dry	1.74	11/9/2023 01:19
o-Xylene	U	H	2.3	4.7	µg/Kg-dry	1.74	11/9/2023 01:19
Toluene	U	H	3.3	9.4	µg/Kg-dry	1.74	11/9/2023 01:19
Xylenes, Total	U	H	4.1	9.4	µg/Kg-dry	1.74	11/9/2023 01:19
Surr: 1,2-Dichloroethane-d4	*104*			*83-132*	*%REC*	1.74	11/9/2023 01:19
Surr: 4-Bromofluorobenzene	*95.1*			*83-111*	*%REC*	1.74	11/9/2023 01:19
Surr: Dibromofluoromethane	*106*			*77-125*	*%REC*	1.74	11/9/2023 01:19
Surr: Toluene-d8	*96.7*			*86-108*	*%REC*	1.74	11/9/2023 01:19
ELECTRICAL CONDUCTIVITY (SAR)		Method:	**USDA H60 METHOD 20B**		Prep: USDA Method 20B / 11/3/23		Analyst: **CLJ**
Electrical Conductivity @ Saturation	**0.72**		**0.011**	**0.10**	**mmhos/cm @25°C**	20	11/4/2023 11:30
CHROMIUM, HEXAVALENT		Method:	**SW7196A**		Prep: SW3060A / 11/4/23		Analyst: **AXW**
Chromium, Hexavalent	U		0.90	1.1	mg/Kg-dry	1	11/5/2023 15:02
MOISTURE		Method:	**SW3550C**				Analyst: **SGH**
Moisture	**7.3**		**0.10**	**0.10**	**% of sample**	1	10/31/2023 13:22
PH MEASURED IN SOIL PASTE		Method:	**USDA METHOD 20B**		Prep: USDA Method 20B / 11/3/23		Analyst: **CLJ**
pH @ Saturation	**7.57**		**0.11**	**0.11**	**s.u.-dry**	1	11/4/2023 10:31

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

ALS Group, USA

Date: *13-Nov-23*

Client: Mull Drilling Company
Project: Peck Tank Battery
Sample ID: SB 3
Collection Date: 10/25/2023 12:30 PM

Work Order: 23102587
Lab ID: 23102587-04
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID		Method: **SW8015C**			Prep: SW3546 / 11/3/23		Analyst: **SJB**
ERO (C10-C36)	**3.8**	J	**3.5**	**26**	**mg/Kg-dry**	1	11/4/2023 15:13
Surr: 4-Terphenyl-d14	*58.4*			*34-130*	*%REC*	1	11/4/2023 15:13
GASOLINE RANGE ORGANICS BY GC-FID		Method: **SW8015C**			Prep: SW5035A / 10/31/23		Analyst: **SJB**
GRO (C6-C10)	U		9,300	10,000	µg/Kg-dry	1	11/2/2023 00:58
Surr: Toluene-d8	*106*			*75-120*	*%REC*	1	11/2/2023 00:58
METALS BY ICP-MS		Method: **SW6020B**			Prep: SW3050B / 11/1/23		Analyst: **STP**
Arsenic	**5.2**		**0.047**	**0.39**	**mg/Kg-dry**	1	11/2/2023 01:27
Barium	**160**		**3.6**	**3.9**	**mg/Kg-dry**	10	11/2/2023 17:34
Cadmium	**0.13**	J	**0.024**	**0.16**	**mg/Kg-dry**	1	11/2/2023 01:27
Copper	**9.6**		**0.39**	**0.39**	**mg/Kg-dry**	1	11/2/2023 01:27
Lead	**11**		**0.19**	**0.39**	**mg/Kg-dry**	1	11/2/2023 01:27
Nickel	**9.6**		**0.20**	**0.39**	**mg/Kg-dry**	1	11/2/2023 01:27
Selenium	**0.36**	J	**0.36**	**0.39**	**mg/Kg-dry**	1	11/2/2023 01:27
Silver	U		0.052	0.39	mg/Kg-dry	1	11/2/2023 01:27
Zinc	**30**		**0.77**	**0.79**	**mg/Kg-dry**	1	11/2/2023 01:27
SOLUBLE CATIONS FOR SAR		Method: **SW6020B**			Prep: USDA Method 20B / 11/3/23		Analyst: **STP**
Calcium	**79**		**2.5**	**5.0**	**mg/L**	10	11/6/2023 19:25
Magnesium	**10**		**0.50**	**2.0**	**mg/L**	10	11/6/2023 19:25
Sodium	**10**		**1.8**	**2.0**	**mg/L**	10	11/6/2023 19:25
HOT WATER SOLUBLE BORON BY ICP-MS		Method: **SW6020B**			Prep: EXTRACT / 10/31/23		Analyst: **DSC**
Boron (Hot Water Soluble)	**0.67**		**0.021**	**0.53**	**mg/Kg-dry**	10	10/31/2023 19:30
SODIUM ADSORPTION RATIO		Method: **USDA H60 METHOD 20B**			Prep: USDA Method 20B / 11/3/23		Analyst: **STP**
Sodium Adsorption Ratio	**0.29**		**0.010**	**0.010**	**none**	1	11/6/2023
POLYNUCLEAR AROMATIC HYDROCARBONS (SIM)		Method: **SW8270E**			Prep: SW3546 / 11/3/23		Analyst: **SMT**
1-Methylnaphthalene	U		1.1	5.5	µg/Kg-dry	1	11/7/2023 01:28
2-Methylnaphthalene	U		1.3	5.5	µg/Kg-dry	1	11/7/2023 01:28
Acenaphthene	U		2.1	5.5	µg/Kg-dry	1	11/7/2023 01:28
Anthracene	U		1.0	5.5	µg/Kg-dry	1	11/7/2023 01:28
Benzo(a)anthracene	U		4.0	5.5	µg/Kg-dry	1	11/7/2023 01:28
Benzo(a)pyrene	U		3.7	5.5	µg/Kg-dry	1	11/7/2023 01:28
Benzo(b)fluoranthene	U		3.3	5.5	µg/Kg-dry	1	11/7/2023 01:28
Benzo(k)fluoranthene	U		0.83	5.5	µg/Kg-dry	1	11/7/2023 01:28
Chrysene	U		3.7	5.5	µg/Kg-dry	1	11/7/2023 01:28

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

Client: Mull Drilling Company
Project: Peck Tank Battery
Sample ID: SB 3
Collection Date: 10/25/2023 12:30 PM

Work Order: 23102587
Lab ID: 23102587-04
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Dibenzo(a,h)anthracene	U		3.2	5.5	µg/Kg-dry	1	11/7/2023 01:28
Fluoranthene	U		2.8	5.5	µg/Kg-dry	1	11/7/2023 01:28
Fluorene	U		1.4	5.5	µg/Kg-dry	1	11/7/2023 01:28
Indeno(1,2,3-cd)pyrene	U		3.8	5.5	µg/Kg-dry	1	11/7/2023 01:28
Naphthalene	U		1.0	5.5	µg/Kg-dry	1	11/7/2023 01:28
Pyrene	U		3.5	5.5	µg/Kg-dry	1	11/7/2023 01:28
Surr: 2-Fluorobiphenyl	*87.7*			*20-140*	*%REC*	1	11/7/2023 01:28
Surr: 4-Terphenyl-d14	*78.1*			*22-172*	*%REC*	1	11/7/2023 01:28
Surr: Nitrobenzene-d5	*104*			*28-140*	*%REC*	1	11/7/2023 01:28
VOLATILE ORGANIC COMPOUNDS - LOW LEVEL		Method:	**SW8260D**				Analyst: **SBR**
1,2,4-Trimethylbenzene	U	H	2.9	8.1	µg/Kg-dry	1.2	11/9/2023 01:55
1,3,5-Trimethylbenzene	U	H	2.6	8.1	µg/Kg-dry	1.2	11/9/2023 01:55
Benzene	U	H	0.84	8.1	µg/Kg-dry	1.2	11/9/2023 01:55
Ethylbenzene	U	H	1.4	8.1	µg/Kg-dry	1.2	11/9/2023 01:55
m,p-Xylene	U	H	3.6	4.0	µg/Kg-dry	1.2	11/9/2023 01:55
o-Xylene	U	H	1.9	4.0	µg/Kg-dry	1.2	11/9/2023 01:55
Toluene	U	H	2.8	8.1	µg/Kg-dry	1.2	11/9/2023 01:55
Xylenes, Total	U	H	3.6	8.1	µg/Kg-dry	1.2	11/9/2023 01:55
Surr: 1,2-Dichloroethane-d4	*108*			*83-132*	*%REC*	1.2	11/9/2023 01:55
Surr: 4-Bromofluorobenzene	*94.7*			*83-111*	*%REC*	1.2	11/9/2023 01:55
Surr: Dibromofluoromethane	*109*			*77-125*	*%REC*	1.2	11/9/2023 01:55
Surr: Toluene-d8	*95.0*			*86-108*	*%REC*	1.2	11/9/2023 01:55
ELECTRICAL CONDUCTIVITY (SAR)		Method:	**USDA H60 METHOD 20B**		Prep: USDA Method 20B / 11/3/23		Analyst: **CLJ**
Electrical Conductivity @ Saturation	**0.68**		**0.011**	**0.10**	**mmhos/cm @25°C**	20	11/4/2023 11:30
CHROMIUM, HEXAVALENT		Method:	**SW7196A**		Prep: SW3060A / 11/4/23		Analyst: **AXW**
Chromium, Hexavalent	U		1.1	1.3	mg/Kg-dry	1	11/5/2023 15:02
MOISTURE		Method:	**SW3550C**				Analyst: **SGH**
Moisture	**26**		**0.10**	**0.10**	**% of sample**	1	10/31/2023 13:22
PH MEASURED IN SOIL PASTE		Method:	**USDA METHOD 20B**		Prep: USDA Method 20B / 11/3/23		Analyst: **CLJ**
pH @ Saturation	**10.5**		**0.13**	**0.13**	**s.u.-dry**	1	11/4/2023 10:31

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

ALS Group, USA

Date: *13-Nov-23*

Client: Mull Drilling Company
Project: Peck Tank Battery
Sample ID: SB 4
Collection Date: 10/25/2023 12:35 PM

Work Order: 23102587
Lab ID: 23102587-05
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID		Method: **SW8015C**			Prep: SW3546 / 11/3/23		Analyst: **SJB**
ERO (C10-C36)	**8.4**	J	**4.0**	**30**	**mg/Kg-dry**	1	11/4/2023 15:50
Surr: 4-Terphenyl-d14	*56.4*			*34-130*	*%REC*	1	11/4/2023 15:50
GASOLINE RANGE ORGANICS BY GC-FID		Method: **SW8015C**			Prep: SW5035A / 10/31/23		Analyst: **SJB**
GRO (C6-C10)	U		15,000	16,000	µg/Kg-dry	1	11/2/2023 01:20
Surr: Toluene-d8	*105*			*75-120*	*%REC*	1	11/2/2023 01:20
METALS BY ICP-MS		Method: **SW6020B**			Prep: SW3050B / 11/1/23		Analyst: **STP**
Arsenic	**4.9**		**0.057**	**0.48**	**mg/Kg-dry**	1	11/2/2023 01:29
Barium	**130**		**0.44**	**0.48**	**mg/Kg-dry**	1	11/2/2023 01:29
Cadmium	**0.15**	J	**0.029**	**0.19**	**mg/Kg-dry**	1	11/2/2023 01:29
Copper	**10**		**0.48**	**0.48**	**mg/Kg-dry**	1	11/2/2023 01:29
Lead	**11**		**0.23**	**0.48**	**mg/Kg-dry**	1	11/2/2023 01:29
Nickel	**10**		**0.25**	**0.48**	**mg/Kg-dry**	1	11/2/2023 01:29
Selenium	**0.44**	J	**0.44**	**0.48**	**mg/Kg-dry**	1	11/2/2023 01:29
Silver	U		0.063	0.48	mg/Kg-dry	1	11/2/2023 01:29
Zinc	**33**		**0.93**	**0.95**	**mg/Kg-dry**	1	11/2/2023 01:29
SOLUBLE CATIONS FOR SAR		Method: **SW6020B**			Prep: USDA Method 20B / 11/3/23		Analyst: **STP**
Calcium	**170**		**2.5**	**5.0**	**mg/L**	10	11/6/2023 19:27
Magnesium	**25**		**0.50**	**2.0**	**mg/L**	10	11/6/2023 19:27
Sodium	**13**		**1.8**	**2.0**	**mg/L**	10	11/6/2023 19:27
HOT WATER SOLUBLE BORON BY ICP-MS		Method: **SW6020B**			Prep: EXTRACT / 10/31/23		Analyst: **DSC**
Boron (Hot Water Soluble)	**0.97**		**0.024**	**0.60**	**mg/Kg-dry**	10	10/31/2023 19:32
SODIUM ADSORPTION RATIO		Method: **USDA H60 METHOD 20B**			Prep: USDA Method 20B / 11/3/23		Analyst: **STP**
Sodium Adsorption Ratio	**0.25**		**0.010**	**0.010**	**none**	1	11/6/2023
POLYNUCLEAR AROMATIC HYDROCARBONS (SIM)		Method: **SW8270E**			Prep: SW3546 / 11/3/23		Analyst: **SMT**
1-Methylnaphthalene	U		1.3	6.3	µg/Kg-dry	1	11/7/2023 01:43
2-Methylnaphthalene	U		1.5	6.3	µg/Kg-dry	1	11/7/2023 01:43
Acenaphthene	U		2.4	6.3	µg/Kg-dry	1	11/7/2023 01:43
Anthracene	U		1.1	6.3	µg/Kg-dry	1	11/7/2023 01:43
Benzo(a)anthracene	U		4.5	6.3	µg/Kg-dry	1	11/7/2023 01:43
Benzo(a)pyrene	U		4.2	6.3	µg/Kg-dry	1	11/7/2023 01:43
Benzo(b)fluoranthene	U		3.8	6.3	µg/Kg-dry	1	11/7/2023 01:43
Benzo(k)fluoranthene	U		0.94	6.3	µg/Kg-dry	1	11/7/2023 01:43
Chrysene	U		4.2	6.3	µg/Kg-dry	1	11/7/2023 01:43

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

Client: Mull Drilling Company
Project: Peck Tank Battery
Sample ID: SB 4
Collection Date: 10/25/2023 12:35 PM

Work Order: 23102587
Lab ID: 23102587-05
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Dibenzo(a,h)anthracene	U		3.6	6.3	µg/Kg-dry	1	11/7/2023 01:43
Fluoranthene	U		3.1	6.3	µg/Kg-dry	1	11/7/2023 01:43
Fluorene	U		1.5	6.3	µg/Kg-dry	1	11/7/2023 01:43
Indeno(1,2,3-cd)pyrene	U		4.3	6.3	µg/Kg-dry	1	11/7/2023 01:43
Naphthalene	U		1.2	6.3	µg/Kg-dry	1	11/7/2023 01:43
Pyrene	U		4.0	6.3	µg/Kg-dry	1	11/7/2023 01:43
Surr: 2-Fluorobiphenyl	*80.7*			*20-140*	*%REC*	1	11/7/2023 01:43
Surr: 4-Terphenyl-d14	*74.4*			*22-172*	*%REC*	1	11/7/2023 01:43
Surr: Nitrobenzene-d5	*95.2*			*28-140*	*%REC*	1	11/7/2023 01:43
VOLATILE ORGANIC COMPOUNDS - LOW LEVEL		Method:	**SW8260D**				Analyst: **SBR**
1,2,4-Trimethylbenzene	U	H	4.1	11	µg/Kg-dry	1.48	11/9/2023 02:13
1,3,5-Trimethylbenzene	U	H	3.6	11	µg/Kg-dry	1.48	11/9/2023 02:13
Benzene	U	H	1.2	11	µg/Kg-dry	1.48	11/9/2023 02:13
Ethylbenzene	U	H	2.0	11	µg/Kg-dry	1.48	11/9/2023 02:13
m,p-Xylene	U	H	5.0	5.6	µg/Kg-dry	1.48	11/9/2023 02:13
o-Xylene	U	H	2.7	5.6	µg/Kg-dry	1.48	11/9/2023 02:13
Toluene	U	H	3.9	11	µg/Kg-dry	1.48	11/9/2023 02:13
Xylenes, Total	U	H	5.0	11	µg/Kg-dry	1.48	11/9/2023 02:13
Surr: 1,2-Dichloroethane-d4	*111*			*83-132*	*%REC*	1.48	11/9/2023 02:13
Surr: 4-Bromofluorobenzene	*97.7*			*83-111*	*%REC*	1.48	11/9/2023 02:13
Surr: Dibromofluoromethane	*110*			*77-125*	*%REC*	1.48	11/9/2023 02:13
Surr: Toluene-d8	*101*			*86-108*	*%REC*	1.48	11/9/2023 02:13
ELECTRICAL CONDUCTIVITY (SAR)		Method:	**USDA H60 METHOD 20B**		Prep: USDA Method 20B / 11/3/23		Analyst: **CLJ**
Electrical Conductivity @ Saturation	**1.5**		**0.011**	**0.10**	**mmhos/cm @25°C**	20	11/4/2023 11:30
CHROMIUM, HEXAVALENT		Method:	**SW7196A**		Prep: SW3060A / 11/4/23		Analyst: **AXW**
Chromium, Hexavalent	U		1.2	1.5	mg/Kg-dry	1	11/5/2023 15:02
MOISTURE		Method:	**SW3550C**				Analyst: **SGH**
Moisture	**34**		**0.10**	**0.10**	**% of sample**	1	10/31/2023 13:22
PH MEASURED IN SOIL PASTE		Method:	**USDA METHOD 20B**		Prep: USDA Method 20B / 11/3/23		Analyst: **CLJ**
pH @ Saturation	**10.8**		**0.15**	**0.15**	**s.u.-dry**	1	11/4/2023 10:31

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

Client: Mull Drilling Company
Project: Peck Tank Battery
Sample ID: SB 5
Collection Date: 10/25/2023 12:40 PM

Work Order: 23102587
Lab ID: 23102587-06
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID		Method: **SW8015C**			Prep: SW3546 / 11/7/23		Analyst: **SJB**
ERO (C10-C36)	**6.0**	J	**2.7**	**21**	**mg/Kg-dry**	1	11/8/2023 08:47
Surr: 4-Terphenyl-d14	*34.2*			*34-130*	*%REC*	1	11/8/2023 08:47
GASOLINE RANGE ORGANICS BY GC-FID		Method: **SW8015C**			Prep: SW5035A / 10/31/23		Analyst: **SJB**
GRO (C6-C10)	U		7,500	8,100	µg/Kg-dry	1	11/2/2023 01:42
Surr: Toluene-d8	*103*			*75-120*	*%REC*	1	11/2/2023 01:42
METALS BY ICP-MS		Method: **SW6020B**			Prep: SW3050B / 11/1/23		Analyst: **STP**
Arsenic	**4.9**		**0.037**	**0.31**	**mg/Kg-dry**	1	11/2/2023 01:31
Barium	**160**		**2.9**	**3.1**	**mg/Kg-dry**	10	11/2/2023 17:35
Cadmium	**0.14**		**0.019**	**0.12**	**mg/Kg-dry**	1	11/2/2023 01:31
Copper	**10**		**0.31**	**0.31**	**mg/Kg-dry**	1	11/2/2023 01:31
Lead	**12**		**0.15**	**0.31**	**mg/Kg-dry**	1	11/2/2023 01:31
Nickel	**10**		**0.16**	**0.31**	**mg/Kg-dry**	1	11/2/2023 01:31
Selenium	**0.40**		**0.29**	**0.31**	**mg/Kg-dry**	1	11/2/2023 01:31
Silver	**0.045**	J	**0.041**	**0.31**	**mg/Kg-dry**	1	11/2/2023 01:31
Zinc	**31**		**0.61**	**0.62**	**mg/Kg-dry**	1	11/2/2023 01:31
SOLUBLE CATIONS FOR SAR		Method: **SW6020B**			Prep: USDA Method 20B / 11/3/23		Analyst: **STP**
Calcium	**73**		**2.5**	**5.0**	**mg/L**	10	11/6/2023 19:29
Magnesium	**9.3**		**0.50**	**2.0**	**mg/L**	10	11/6/2023 19:29
Sodium	**3.4**		**1.8**	**2.0**	**mg/L**	10	11/6/2023 19:29
HOT WATER SOLUBLE BORON BY ICP-MS		Method: **SW6020B**			Prep: EXTRACT / 10/31/23		Analyst: **DSC**
Boron (Hot Water Soluble)	**0.75**		**0.016**	**0.41**	**mg/Kg-dry**	10	10/31/2023 19:33
SODIUM ADSORPTION RATIO		Method: **USDA H60 METHOD 20B**			Prep: USDA Method 20B / 11/3/23		Analyst: **STP**
Sodium Adsorption Ratio	**0.099**		**0.010**	**0.010**	**none**	1	11/6/2023
POLYNUCLEAR AROMATIC HYDROCARBONS (SIM)		Method: **SW8270E**			Prep: SW3546 / 11/8/23		Analyst: **SMT**
1-Methylnaphthalene	U		0.89	4.3	µg/Kg-dry	1	11/8/2023 18:35
2-Methylnaphthalene	U		1.0	4.3	µg/Kg-dry	1	11/8/2023 18:35
Acenaphthene	U		1.7	4.3	µg/Kg-dry	1	11/8/2023 18:35
Anthracene	U		0.80	4.3	µg/Kg-dry	1	11/8/2023 18:35
Benzo(a)anthracene	U		3.1	4.3	µg/Kg-dry	1	11/8/2023 18:35
Benzo(a)pyrene	U		2.9	4.3	µg/Kg-dry	1	11/8/2023 18:35
Benzo(b)fluoranthene	U		2.6	4.3	µg/Kg-dry	1	11/8/2023 18:35
Benzo(k)fluoranthene	U		0.65	4.3	µg/Kg-dry	1	11/8/2023 18:35
Chrysene	U		2.9	4.3	µg/Kg-dry	1	11/8/2023 18:35

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

Client: Mull Drilling Company
Project: Peck Tank Battery
Sample ID: SB 5
Collection Date: 10/25/2023 12:40 PM

Work Order: 23102587
Lab ID: 23102587-06
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Dibenzo(a,h)anthracene	U		2.5	4.3	µg/Kg-dry	1	11/8/2023 18:35
Fluoranthene	U		2.2	4.3	µg/Kg-dry	1	11/8/2023 18:35
Fluorene	U		1.1	4.3	µg/Kg-dry	1	11/8/2023 18:35
Indeno(1,2,3-cd)pyrene	U		3.0	4.3	µg/Kg-dry	1	11/8/2023 18:35
Naphthalene	U		0.82	4.3	µg/Kg-dry	1	11/8/2023 18:35
Pyrene	U		2.8	4.3	µg/Kg-dry	1	11/8/2023 18:35
Surr: 2-Fluorobiphenyl	*21.8*			*20-140*	*%REC*	1	11/8/2023 18:35
Surr: 4-Terphenyl-d14	*15.7*	S		*22-172*	*%REC*	1	11/8/2023 18:35
Surr: Nitrobenzene-d5	*17.3*	S		*28-140*	*%REC*	1	11/8/2023 18:35
VOLATILE ORGANIC COMPOUNDS - LOW LEVEL		Method:	**SW8260D**				Analyst: **SBR**
1,2,4-Trimethylbenzene	U	H	2.9	8.1	µg/Kg-dry	1.54	11/9/2023 02:31
1,3,5-Trimethylbenzene	U	H	2.6	8.1	µg/Kg-dry	1.54	11/9/2023 02:31
Benzene	U	H	0.84	8.1	µg/Kg-dry	1.54	11/9/2023 02:31
Ethylbenzene	U	H	1.4	8.1	µg/Kg-dry	1.54	11/9/2023 02:31
m,p-Xylene	U	H	3.6	4.1	µg/Kg-dry	1.54	11/9/2023 02:31
o-Xylene	U	H	1.9	4.1	µg/Kg-dry	1.54	11/9/2023 02:31
Toluene	U	H	2.8	8.1	µg/Kg-dry	1.54	11/9/2023 02:31
Xylenes, Total	U	H	3.6	8.1	µg/Kg-dry	1.54	11/9/2023 02:31
Surr: 1,2-Dichloroethane-d4	*106*			*83-132*	*%REC*	1.54	11/9/2023 02:31
Surr: 4-Bromofluorobenzene	*98.4*			*83-111*	*%REC*	1.54	11/9/2023 02:31
Surr: Dibromofluoromethane	*107*			*77-125*	*%REC*	1.54	11/9/2023 02:31
Surr: Toluene-d8	*92.7*			*86-108*	*%REC*	1.54	11/9/2023 02:31
ELECTRICAL CONDUCTIVITY (SAR)		Method:	**USDA H60 METHOD 20B**		Prep: USDA Method 20B / 11/3/23		Analyst: **CLJ**
Electrical Conductivity @ Saturation	**0.56**		**0.011**	**0.10**	**mmhos/cm @25°C**	20	11/4/2023 11:30
CHROMIUM, HEXAVALENT		Method:	**SW7196A**		Prep: SW3060A / 11/4/23		Analyst: **AXW**
Chromium, Hexavalent	U		0.87	1.0	mg/Kg-dry	1	11/5/2023 15:02
MOISTURE		Method:	**SW3550C**				Analyst: **SGH**
Moisture	**4.9**		**0.10**	**0.10**	**% of sample**	1	10/31/2023 13:22
PH MEASURED IN SOIL PASTE		Method:	**USDA METHOD 20B**		Prep: USDA Method 20B / 11/3/23		Analyst: **CLJ**
pH @ Saturation	**7.74**		**0.11**	**0.11**	**s.u.-dry**	1	11/4/2023 10:31

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

ALS Group, USA

Date: *13-Nov-23*

Client: Mull Drilling Company
Project: Peck Tank Battery
Sample ID: Trip Blank
Collection Date: 10/25/2023

Work Order: 23102587
Lab ID: 23102587-07
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS		Method: **SW8260D**					Analyst: **BAM**
1,1,1-Trichloroethane	U		0.46	1.0	µg/L	1	11/8/2023 14:25
1,1,2,2-Tetrachloroethane	U		0.40	1.0	µg/L	1	11/8/2023 14:25
1,1,2-Trichloroethane	U		0.46	1.0	µg/L	1	11/8/2023 14:25
1,1,2-Trichlorotrifluoroethane	U		0.52	1.0	µg/L	1	11/8/2023 14:25
1,1-Dichloroethane	U		0.44	1.0	µg/L	1	11/8/2023 14:25
1,1-Dichloroethene	U		0.40	1.0	µg/L	1	11/8/2023 14:25
1,2,3-Trichlorobenzene	U		0.42	1.0	µg/L	1	11/8/2023 14:25
1,2,3-Trichloropropane	U		0.40	1.0	µg/L	1	11/8/2023 14:25
1,2,4-Trichlorobenzene	U		0.45	1.0	µg/L	1	11/8/2023 14:25
1,2,4-Trimethylbenzene	U		0.45	1.0	µg/L	1	11/8/2023 14:25
1,2-Dibromo-3-chloropropane	U		0.43	1.0	µg/L	1	11/8/2023 14:25
1,2-Dibromoethane	U		0.41	1.0	µg/L	1	11/8/2023 14:25
1,2-Dichlorobenzene	U		0.32	1.0	µg/L	1	11/8/2023 14:25
1,2-Dichloroethane	U		0.44	1.0	µg/L	1	11/8/2023 14:25
1,2-Dichloropropane	U		0.48	1.0	µg/L	1	11/8/2023 14:25
1,3,5-Trimethylbenzene	U		0.65	1.0	µg/L	1	11/8/2023 14:25
1,3-Dichlorobenzene	U		0.33	1.0	µg/L	1	11/8/2023 14:25
1,4-Dichlorobenzene	U		0.35	1.0	µg/L	1	11/8/2023 14:25
2-Butanone	U		0.52	5.0	µg/L	1	11/8/2023 14:25
2-Hexanone	U		0.59	5.0	µg/L	1	11/8/2023 14:25
4-Methyl-2-pentanone	U		0.52	1.0	µg/L	1	11/8/2023 14:25
Acetone	U		6.2	10	µg/L	1	11/8/2023 14:25
Benzene	U		0.46	1.0	µg/L	1	11/8/2023 14:25
Bromochloromethane	U		0.45	1.0	µg/L	1	11/8/2023 14:25
Bromodichloromethane	U		0.49	1.0	µg/L	1	11/8/2023 14:25
Bromoform	U		0.56	1.0	µg/L	1	11/8/2023 14:25
Bromomethane	U		0.90	1.0	µg/L	1	11/8/2023 14:25
Carbon disulfide	U		0.49	1.0	µg/L	1	11/8/2023 14:25
Carbon tetrachloride	U		0.40	1.0	µg/L	1	11/8/2023 14:25
Chlorobenzene	U		0.40	1.0	µg/L	1	11/8/2023 14:25
Chloroethane	U		0.68	1.0	µg/L	1	11/8/2023 14:25
Chloroform	U		0.46	1.0	µg/L	1	11/8/2023 14:25
Chloromethane	U		0.83	1.0	µg/L	1	11/8/2023 14:25
cis-1,2-Dichloroethene	U		0.42	1.0	µg/L	1	11/8/2023 14:25
cis-1,3-Dichloropropene	U		0.57	1.0	µg/L	1	11/8/2023 14:25
Cyclohexane	U		0.63	2.0	µg/L	1	11/8/2023 14:25
Dibromochloromethane	U		0.40	1.0	µg/L	1	11/8/2023 14:25
Dichlorodifluoromethane	U		0.68	1.0	µg/L	1	11/8/2023 14:25

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

ALS Group, USA

Date: *13-Nov-23*

Client: Mull Drilling Company
Project: Peck Tank Battery
Sample ID: Trip Blank
Collection Date: 10/25/2023

Work Order: 23102587
Lab ID: 23102587-07
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Ethylbenzene	U		0.34	1.0	µg/L	1	11/8/2023 14:25
Isopropylbenzene	U		0.35	1.0	µg/L	1	11/8/2023 14:25
m,p-Xylene	U		0.81	2.0	µg/L	1	11/8/2023 14:25
Methyl acetate	U		0.59	2.0	µg/L	1	11/8/2023 14:25
Methyl tert-butyl ether	U		0.45	1.0	µg/L	1	11/8/2023 14:25
Methylcyclohexane	U		0.35	1.0	µg/L	1	11/8/2023 14:25
Methylene chloride	U		0.86	5.0	µg/L	1	11/8/2023 14:25
o-Xylene	U		0.31	1.0	µg/L	1	11/8/2023 14:25
Styrene	U		0.33	1.0	µg/L	1	11/8/2023 14:25
Tetrachloroethene	U		0.39	1.0	µg/L	1	11/8/2023 14:25
Toluene	U		0.45	1.0	µg/L	1	11/8/2023 14:25
trans-1,2-Dichloroethene	U		0.48	1.0	µg/L	1	11/8/2023 14:25
trans-1,3-Dichloropropene	U		0.38	1.0	µg/L	1	11/8/2023 14:25
Trichloroethene	U		0.43	1.0	µg/L	1	11/8/2023 14:25
Trichlorofluoromethane	U		0.52	1.0	µg/L	1	11/8/2023 14:25
Vinyl chloride	U		0.53	1.0	µg/L	1	11/8/2023 14:25
Xylenes, Total	U		0.81	3.0	µg/L	1	11/8/2023 14:25
Surr: 1,2-Dichloroethane-d4	*104*			*80-120*	*%REC*	1	11/8/2023 14:25
Surr: 4-Bromofluorobenzene	*94.2*			*80-120*	*%REC*	1	11/8/2023 14:25
Surr: Dibromofluoromethane	*101*			*80-120*	*%REC*	1	11/8/2023 14:25
Surr: Toluene-d8	*103*			*80-120*	*%REC*	1	11/8/2023 14:25

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

ALS Group, USA

Date: 13-Nov-23

Client: Mull Drilling Company

Work Order: 23102587

Project: Peck Tank Battery

QC BATCH REPORT

Batch ID: **228541** Instrument ID **GC8** Method: **SW8015C**

MBLK Sample ID: **DBLKS1-228541-228541** Units: **mg/Kg** Analysis Date: **11/4/2023 01:56 AM**

Client ID: Run ID: **GC8_231102A** SeqNo: **10170392** Prep Date: **11/3/2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
ERO (C10-C36)	4.95	20								J
Surr: 4-Terphenyl-d14	*0.4833*	0	*0.828*	0	*58.4*	*34-130*	0			

LCS Sample ID: **DLCSS1-228541-228541** Units: **mg/Kg** Analysis Date: **11/4/2023 02:33 AM**

Client ID: Run ID: **GC8_231102A** SeqNo: **10170393** Prep Date: **11/3/2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
ERO (C10-C36)	708.6	20	833	0	85.1	50-150	0			
Surr: 4-Terphenyl-d14	*0.5833*	0	*0.828*	0	*70.5*	*34-130*	0			

MS Sample ID: **23102586-10A MS** Units: **mg/Kg** Analysis Date: **11/4/2023 03:09 AM**

Client ID: Run ID: **GC8_231102A** SeqNo: **10170394** Prep Date: **11/3/2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
ERO (C10-C36)	768.5	20	828	35.01	88.6	50-150	0			
Surr: 4-Terphenyl-d14	*0.4805*	0	*0.8231*	0	*58.4*	*34-130*	0			

MSD Sample ID: **23102586-10A MSD** Units: **mg/Kg** Analysis Date: **11/4/2023 03:46 AM**

Client ID: Run ID: **GC8_231102A** SeqNo: **10170395** Prep Date: **11/3/2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
ERO (C10-C36)	219.6	20	815.1	35.01	22.6	50-150	768.5	111	30	SR
Surr: 4-Terphenyl-d14	*0.1631*	0	*0.8102*	0	*20.1*	*34-130*	0.4805	*98.6*	*30*	*SR*

The following samples were analyzed in this batch:

23102587-01A	23102587-02A	23102587-03A
23102587-04A	23102587-05A	23102587-06A

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

Client: Mull Drilling Company
Work Order: 23102587
Project: Peck Tank Battery

QC BATCH REPORT

Batch ID: **228715** Instrument ID **GC8** Method: **SW8015C**

MBLK Sample ID: **DBLKS1-228715-228715** Units: **mg/Kg** Analysis Date: **11/7/2023 08:18 PM**
Client ID: Run ID: **GC8_231107D** SeqNo: **10179363** Prep Date: **11/7/2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
ERO (C10-C36)	3.8	20								J
Surr: 4-Terphenyl-d14	*0.5167*	0	*0.828*	0	*62.4*	*34-130*	0			

LCS Sample ID: **DLCSS1-228715-228715** Units: **mg/Kg** Analysis Date: **11/7/2023 08:55 PM**
Client ID: Run ID: **GC8_231107D** SeqNo: **10179364** Prep Date: **11/7/2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
ERO (C10-C36)	709.5	20	833	0	85.2	50-150	0			
Surr: 4-Terphenyl-d14	*0.6167*	0	*0.828*	0	*74.5*	*34-130*	0			

MS Sample ID: **23102585-06A MS** Units: **mg/Kg** Analysis Date: **11/7/2023 09:33 PM**
Client ID: Run ID: **GC8_231107D** SeqNo: **10179365** Prep Date: **11/7/2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
ERO (C10-C36)	326.7	19	803.5	4.161	40.1	50-150	0			S
Surr: 4-Terphenyl-d14	*0.1286*	0	*0.7987*	0	*16.1*	*34-130*	0			*S*

MSD Sample ID: **23102585-06A MSD** Units: **mg/Kg** Analysis Date: **11/7/2023 10:10 PM**
Client ID: Run ID: **GC8_231107D** SeqNo: **10179366** Prep Date: **11/7/2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
ERO (C10-C36)	148.8	19	796.9	4.161	18.1	50-150	326.7	74.8	30	SR
Surr: 4-Terphenyl-d14	*0.09566*	0	*0.7921*	0	*12.1*	*34-130*	0.1286	*29.4*	*30*	*S*

The following samples were analyzed in this batch: 23102587-06A

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

Client: Mull Drilling Company
Work Order: 23102587
Project: Peck Tank Battery

QC BATCH REPORT

Batch ID: **228305** Instrument ID **GC9** Method: **SW8015C**

MBLK Sample ID: **MBLK-228305-228305** Units: **µg/Kg-dry** Analysis Date: **11/1/2023 03:20 PM**
Client ID: Run ID: **GC9_231101A** SeqNo: **10157154** Prep Date: **10/31/2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	U	5,000	0	0	0		0			
Surr: Toluene-d8	*4982*	0	*5000*	0	*99.6*	*75-120*	0			

LCS Sample ID: **LCS-228305-228305** Units: **µg/Kg-dry** Analysis Date: **11/1/2023 02:35 PM**
Client ID: Run ID: **GC9_231101A** SeqNo: **10157153** Prep Date: **10/31/2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	254800	5,000	250000	0	102	63-126	0			
Surr: Toluene-d8	*5464*	0	*5000*	0	*109*	*75-120*	0			

MS Sample ID: **23102586-07C MS** Units: **µg/Kg-dry** Analysis Date: **11/1/2023 05:55 PM**
Client ID: Run ID: **GC9_231101A** SeqNo: **10157161** Prep Date: **10/31/2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	248400	4,900	242700	0	102	63-126	0			
Surr: Toluene-d8	*5451*	0	*4855*	0	*112*	*75-120*	0			

MSD Sample ID: **23102586-07C MSD** Units: **µg/Kg-dry** Analysis Date: **11/1/2023 06:18 PM**
Client ID: Run ID: **GC9_231101A** SeqNo: **10157162** Prep Date: **10/31/2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	317400	4,900	242700	0	131	63-126	248400	24.4	30	S
Surr: Toluene-d8	*5804*	0	*4855*	0	*120*	*75-120*	5451	*6.28*	*30*	

The following samples were analyzed in this batch:

23102587-01C	23102587-02C	23102587-03C
23102587-04C	23102587-05C	23102587-06C

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

Client: Mull Drilling Company
Work Order: 23102587
Project: Peck Tank Battery

QC BATCH REPORT

Batch ID: **228324** Instrument ID **ICPMS3** Method: **SW6020B**

MBLK	Sample ID: **MBLK-228324-228324**				Units: **mg/Kg**			Analysis Date: **10/31/2023 07:03 PM**		
Client ID:	Run ID: **ICPMS3_231031B**				SeqNo: **10150557**		Prep Date: **10/31/2023**		DF: **1**	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Boron (Hot Water Soluble)	0.008178	0.040								J

LCS	Sample ID: **LCS-228324-228324**				Units: **mg/Kg**			Analysis Date: **10/31/2023 07:04 PM**		
Client ID:	Run ID: **ICPMS3_231031B**				SeqNo: **10150558**		Prep Date: **10/31/2023**		DF: **1**	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Boron (Hot Water Soluble)	0.8744	0.040	1	0	87.4	80-120	0			

The following samples were analyzed in this batch:

23102587-01A	23102587-02A	23102587-03A
23102587-04A	23102587-05A	23102587-06A

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

Client: Mull Drilling Company
Work Order: 23102587
Project: Peck Tank Battery

QC BATCH REPORT

Batch ID: **228325** Instrument ID **ICPMS3** Method: **SW6020B**

MBLK Sample ID: **MBLK-228325-228325** Units: **mg/Kg** Analysis Date: **11/2/2023 12:54 AM**
Client ID: Run ID: **ICPMS3_231101B** SeqNo: **10155948** Prep Date: **11/1/2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	U	0.25								
Barium	U	0.25								
Cadmium	U	0.10								
Copper	U	0.25								
Lead	U	0.25								
Nickel	U	0.25								
Selenium	U	0.25								
Silver	U	0.25								
Zinc	U	0.50								

LCS Sample ID: **LCS-228325-228325** Units: **mg/Kg** Analysis Date: **11/2/2023 12:56 AM**
Client ID: Run ID: **ICPMS3_231101B** SeqNo: **10155949** Prep Date: **11/1/2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	5.136	0.25	5	0	103	80-120	0			
Barium	5.163	0.25	5	0	103	80-120	0			
Cadmium	4.945	0.10	5	0	98.9	80-120	0			
Copper	5.179	0.25	5	0	104	80-120	0			
Lead	5.209	0.25	5	0	104	80-120	0			
Nickel	5.239	0.25	5	0	105	80-120	0			
Selenium	5.103	0.25	5	0	102	80-120	0			
Silver	5.035	0.25	5	0	101	80-120	0			
Zinc	5.044	0.50	5	0	101	80-120	0			

MS Sample ID: **23102584-04AMS** Units: **mg/Kg** Analysis Date: **11/2/2023 01:05 AM**
Client ID: Run ID: **ICPMS3_231101B** SeqNo: **10155954** Prep Date: **11/1/2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	7.534	0.26	5.16	3.185	84.3	75-125	0			
Cadmium	4.243	0.10	5.16	0.1231	79.8	75-125	0			
Nickel	10.84	0.26	5.16	6.581	82.6	75-125	0			
Selenium	4.696	0.26	5.16	0.4143	83	75-125	0			
Silver	4.185	0.26	5.16	0.02433	80.6	75-125	0			
Zinc	33.08	0.52	5.16	23.13	193	75-125	0			SO

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

Client: Mull Drilling Company
Work Order: 23102587
Project: Peck Tank Battery

QC BATCH REPORT

Batch ID: **228325** Instrument ID **ICPMS3** Method: **SW6020B**

MS Sample ID: **23102584-04AMS** Units: **mg/Kg** Analysis Date: **11/2/2023 05:14 PM**
Client ID: Run ID: **ICPMS3_231102B** SeqNo: **10159927** Prep Date: **11/1/2023** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Barium	92.48	2.6	5.16	91.54	18.3	75-125	0			SO
Copper	12.77	2.6	5.16	8.111	90.2	75-125	0			
Lead	22.42	2.6	5.16	14.92	146	75-125	0			S

MSD Sample ID: **23102584-04AMSD** Units: **mg/Kg** Analysis Date: **11/2/2023 01:07 AM**
Client ID: Run ID: **ICPMS3_231101B** SeqNo: **10155955** Prep Date: **11/1/2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	7.624	0.27	5.336	3.185	83.2	75-125	7.534	1.18	20	
Cadmium	4.435	0.11	5.336	0.1231	80.8	75-125	4.243	4.44	20	
Nickel	11.08	0.27	5.336	6.581	84.2	75-125	10.84	2.11	20	
Selenium	4.88	0.27	5.336	0.4143	83.7	75-125	4.696	3.83	20	
Silver	4.336	0.27	5.336	0.02433	80.8	75-125	4.185	3.54	20	
Zinc	27.31	0.53	5.336	23.13	78.3	75-125	33.08	19.1	20	O

MSD Sample ID: **23102584-04AMSD** Units: **mg/Kg** Analysis Date: **11/2/2023 05:15 PM**
Client ID: Run ID: **ICPMS3_231102B** SeqNo: **10159928** Prep Date: **11/1/2023** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Barium	92.22	2.7	5.336	91.54	12.7	75-125	92.48	0.287	20	SO
Copper	13.1	2.7	5.336	8.111	93.5	75-125	12.77	2.58	20	
Lead	19.34	2.7	5.336	14.92	82.9	75-125	22.42	14.8	20	

The following samples were analyzed in this batch:

23102587-01A	23102587-02A	23102587-03A
23102587-04A	23102587-05A	23102587-06A

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

Client: Mull Drilling Company
Work Order: 23102587
Project: Peck Tank Battery

QC BATCH REPORT

Batch ID: **228580** Instrument ID **ICPMS3** Method: **SW6020B**

DUP	Sample ID: **23102586-11ADUP**				Units: **mg/L**		Analysis Date: **11/6/2023 07:15 PM**			
Client ID:	Run ID: **ICPMS3_231106A**				SeqNo: **10172364**		Prep Date: **11/3/2023**		DF: **10**	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	48.69	5.0	0	0	0	0-0	107.7	75.5		
Magnesium	8.539	2.0	0	0	0	0-0	11.41	28.8		
Sodium	69.27	2.0	0	0	0	0-0	81.06	15.7		

The following samples were analyzed in this batch:

23102587-01A	23102587-02A	23102587-03A
23102587-04A	23102587-05A	23102587-06A

Batch ID: **228580** Instrument ID **SAR** Method: **USDA H60 Metho**

DUP	Sample ID: **23102586-11ADUP**				Units: **none**		Analysis Date: **11/6/2023**			
Client ID:	Run ID: **SAR_231106B**				SeqNo: **10172848**		Prep Date: **11/3/2023**		DF: **1**	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	2.408	0.010	0	0	0		1.985	19.3	50	

The following samples were analyzed in this batch:

23102587-01A	23102587-02A	23102587-03A
23102587-04A	23102587-05A	23102587-06A

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

Client: Mull Drilling Company
Work Order: 23102587
Project: Peck Tank Battery

QC BATCH REPORT

Batch ID: **228540** Instrument ID **SVMS6** Method: **SW8270E**

MBLK Sample ID: **SBLKS1-228540-228540** Units: **µg/Kg** Analysis Date: **11/3/2023 01:58 PM**
Client ID: Run ID: **SVMS6_231103A** SeqNo: **10168530** Prep Date: **11/3/2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1-Methylnaphthalene	U	4.2								
2-Methylnaphthalene	U	4.2								
Acenaphthene	U	4.2								
Anthracene	U	4.2								
Benzo(a)anthracene	U	4.2								
Benzo(a)pyrene	U	4.2								
Benzo(b)fluoranthene	U	4.2								
Benzo(k)fluoranthene	U	4.2								
Chrysene	U	4.2								
Dibenzo(a,h)anthracene	U	4.2								
Fluoranthene	U	4.2								
Fluorene	U	4.2								
Indeno(1,2,3-cd)pyrene	U	4.2								
Naphthalene	U	4.2								
Pyrene	U	4.2								
Surr: 2-Fluorobiphenyl	*564.7*	0	*666.6*	0	*84.7*	*20-140*	0			
Surr: 4-Terphenyl-d14	*555*	0	*666.6*	0	*83.3*	*22-172*	0			
Surr: Nitrobenzene-d5	*673.6*	0	*666.6*	0	*101*	*28-140*	0			

LCS Sample ID: **SLCSS1-228540-228540** Units: **µg/Kg** Analysis Date: **11/3/2023 02:29 PM**
Client ID: Run ID: **SVMS6_231103A** SeqNo: **10168533** Prep Date: **11/3/2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1-Methylnaphthalene	628.4	4.2	666.6	0	94.3	40-140	0			
2-Methylnaphthalene	829.7	4.2	666.6	0	124	40-140	0			
Acenaphthene	667.9	4.2	666.6	0	100	40-140	0			
Anthracene	692.6	4.2	666.6	0	104	40-140	0			
Benzo(a)anthracene	645.8	4.2	666.6	0	96.9	40-140	0			
Benzo(a)pyrene	651	4.2	666.6	0	97.7	40-140	0			
Benzo(b)fluoranthene	585.2	4.2	666.6	0	87.8	40-140	0			
Benzo(k)fluoranthene	610.6	4.2	666.6	0	91.6	40-140	0			
Chrysene	693.3	4.2	666.6	0	104	40-140	0			
Dibenzo(a,h)anthracene	586.4	4.2	666.6	0	88	40-140	0			
Fluoranthene	698.8	4.2	666.6	0	105	40-140	0			
Fluorene	629.4	4.2	666.6	0	94.4	40-140	0			
Indeno(1,2,3-cd)pyrene	593.3	4.2	666.6	0	89	40-140	0			
Naphthalene	697.3	4.2	666.6	0	105	40-140	0			
Pyrene	647.9	4.2	666.6	0	97.2	40-140	0			
Surr: 2-Fluorobiphenyl	*534.1*	0	*666.6*	0	*80.1*	*20-140*	0			
Surr: 4-Terphenyl-d14	*534.8*	0	*666.6*	0	*80.2*	*22-172*	0			
Surr: Nitrobenzene-d5	*600.6*	0	*666.6*	0	*90.1*	*28-140*	0			

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

Client: Mull Drilling Company
Work Order: 23102587
Project: Peck Tank Battery

QC BATCH REPORT

Batch ID: **228540** Instrument ID **SVMS6** Method: **SW8270E**

The following samples were analyzed in this batch:

23102587-01A	23102587-02A	23102587-03A
23102587-04A	23102587-05A	23102587-06A

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

Client: Mull Drilling Company
Work Order: 23102587
Project: Peck Tank Battery

QC BATCH REPORT

Batch ID: **228795** Instrument ID **SVMS6** Method: **SW8270E**

MBLK Sample ID: **SBLKS1-228795-228795** Units: **µg/Kg** Analysis Date: **11/8/2023 04:31 PM**
Client ID: Run ID: **SVMS6_231108A** SeqNo: **10182803** Prep Date: **11/8/2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1-Methylnaphthalene	U	4.2								
2-Methylnaphthalene	U	4.2								
Acenaphthene	U	4.2								
Anthracene	U	4.2								
Benzo(a)anthracene	U	4.2								
Benzo(a)pyrene	U	4.2								
Benzo(b)fluoranthene	U	4.2								
Benzo(k)fluoranthene	U	4.2								
Chrysene	U	4.2								
Dibenzo(a,h)anthracene	U	4.2								
Fluoranthene	U	4.2								
Fluorene	U	4.2								
Indeno(1,2,3-cd)pyrene	U	4.2								
Naphthalene	U	4.2								
Pyrene	U	4.2								
Surr: 2-Fluorobiphenyl	*583.2*	0	*666.6*	0	*87.5*	*20-140*	0			
Surr: 4-Terphenyl-d14	*530.3*	0	*666.6*	0	*79.6*	*22-172*	0			
Surr: Nitrobenzene-d5	*664.4*	0	*666.6*	0	*99.7*	*28-140*	0			

LCS Sample ID: **SLCSS1-228795-228795** Units: **µg/Kg** Analysis Date: **11/8/2023 05:17 PM**
Client ID: Run ID: **SVMS6_231108A** SeqNo: **10182804** Prep Date: **11/8/2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1-Methylnaphthalene	712.9	4.2	666.6	0	107	40-140	0			
2-Methylnaphthalene	743.2	4.2	666.6	0	111	40-140	0			
Acenaphthene	721.3	4.2	666.6	0	108	40-140	0			
Anthracene	735.2	4.2	666.6	0	110	40-140	0			
Benzo(a)anthracene	684.9	4.2	666.6	0	103	40-140	0			
Benzo(a)pyrene	698.2	4.2	666.6	0	105	40-140	0			
Benzo(b)fluoranthene	602.3	4.2	666.6	0	90.4	40-140	0			
Benzo(k)fluoranthene	666.7	4.2	666.6	0	100	40-140	0			
Chrysene	745.3	4.2	666.6	0	112	40-140	0			
Dibenzo(a,h)anthracene	624.5	4.2	666.6	0	93.7	40-140	0			
Fluoranthene	734	4.2	666.6	0	110	40-140	0			
Fluorene	671.3	4.2	666.6	0	101	40-140	0			
Indeno(1,2,3-cd)pyrene	620.5	4.2	666.6	0	93.1	40-140	0			
Naphthalene	745.7	4.2	666.6	0	112	40-140	0			
Pyrene	655.4	4.2	666.6	0	98.3	40-140	0			
Surr: 2-Fluorobiphenyl	*590.6*	0	*666.6*	0	*88.6*	*20-140*	0			
Surr: 4-Terphenyl-d14	*523*	0	*666.6*	0	*78.5*	*22-172*	0			
Surr: Nitrobenzene-d5	*594.5*	0	*666.6*	0	*89.2*	*28-140*	0			

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

Client: Mull Drilling Company
Work Order: 23102587
Project: Peck Tank Battery

QC BATCH REPORT

Batch ID: **228795** Instrument ID **SVMS6** Method: **SW8270E**

MS	Sample ID: **23110435-02A MS**				Units: **µg/Kg**		Analysis Date: **11/8/2023 05:33 PM**			
Client ID:		Run ID: **SVMS6_231108A**			SeqNo: **10182805**		Prep Date: **11/8/2023**		DF: **1**	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1-Methylnaphthalene	686	4.1	647.6	0	106	40-140	0			
2-Methylnaphthalene	677.4	4.1	647.6	0	105	40-140	0			
Acenaphthene	714.8	4.1	647.6	0	110	40-140	0			
Anthracene	728.3	4.1	647.6	0	112	40-140	0			
Benzo(a)anthracene	685.5	4.1	647.6	0	106	40-140	0			
Benzo(a)pyrene	691.9	4.1	647.6	0	107	40-140	0			
Benzo(b)fluoranthene	589.5	4.1	647.6	0	91	40-140	0			
Benzo(k)fluoranthene	699.4	4.1	647.6	0	108	40-140	0			
Chrysene	747.2	4.1	647.6	0	115	40-140	0			
Dibenzo(a,h)anthracene	598.9	4.1	647.6	0	92.5	40-140	0			
Fluoranthene	741.8	4.1	647.6	0	115	40-140	0			
Fluorene	675.6	4.1	647.6	0	104	40-140	0			
Indeno(1,2,3-cd)pyrene	589.5	4.1	647.6	0	91	40-140	0			
Naphthalene	740	4.1	647.6	0	114	40-140	0			
Pyrene	665.7	4.1	647.6	0	103	40-140	0			
Surr: 2-Fluorobiphenyl	*569.9*	0	*647.6*	0	*88*	*20-140*	0			
Surr: 4-Terphenyl-d14	*520.4*	0	*647.6*	0	*80.4*	*22-172*	0			
Surr: Nitrobenzene-d5	*594.8*	0	*647.6*	0	*91.9*	*28-140*	0			

MSD	Sample ID: **23110435-02A MSD**				Units: **µg/Kg**		Analysis Date: **11/8/2023 05:48 PM**			
Client ID:		Run ID: **SVMS6_231108A**			SeqNo: **10182806**		Prep Date: **11/8/2023**		DF: **1**	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1-Methylnaphthalene	676.6	3.9	629.7	0	107	40-140	686	1.38	30	
2-Methylnaphthalene	628.5	3.9	629.7	0	99.8	40-140	677.4	7.49	30	
Acenaphthene	686.9	3.9	629.7	0	109	40-140	714.8	3.98	30	
Anthracene	709.3	3.9	629.7	0	113	40-140	728.3	2.64	30	
Benzo(a)anthracene	660.9	3.9	629.7	0	105	40-140	685.5	3.65	30	
Benzo(a)pyrene	670.7	3.9	629.7	0	107	40-140	691.9	3.11	30	
Benzo(b)fluoranthene	576.2	3.9	629.7	0	91.5	40-140	589.5	2.28	30	
Benzo(k)fluoranthene	649.1	3.9	629.7	0	103	40-140	699.4	7.46	30	
Chrysene	716.6	3.9	629.7	0	114	40-140	747.2	4.17	30	
Dibenzo(a,h)anthracene	592.8	3.9	629.7	0	94.2	40-140	598.9	1.01	30	
Fluoranthene	702.8	3.9	629.7	0	112	40-140	741.8	5.39	30	
Fluorene	645.8	3.9	629.7	0	103	40-140	675.6	4.52	30	
Indeno(1,2,3-cd)pyrene	586.4	3.9	629.7	0	93.1	40-140	589.5	0.529	30	
Naphthalene	715.5	3.9	629.7	0	114	40-140	740	3.37	30	
Pyrene	643.8	3.9	629.7	0	102	40-140	665.7	3.35	30	
Surr: 2-Fluorobiphenyl	*551.4*	0	*629.7*	0	*87.6*	*20-140*	569.9	*3.3*	*30*	
Surr: 4-Terphenyl-d14	*497.2*	0	*629.7*	0	*79*	*22-172*	520.4	*4.56*	*30*	
Surr: Nitrobenzene-d5	*576.8*	0	*629.7*	0	*91.6*	*28-140*	594.8	*3.08*	*30*	

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

Client: Mull Drilling Company
Work Order: 23102587
Project: Peck Tank Battery

QC BATCH REPORT

Batch ID: **228795** Instrument ID **SVMS6** Method: **SW8270E**

The following samples were analyzed in this batch: 23102587-06A

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

QC BATCH REPORT

Batch ID: **R388535b** Instrument ID **VMS9** Method: **SW8260D**

MBLK	Sample ID: **9V-BLKW2-231108-R388535b**				Units: **µg/L**		Analysis Date: **11/8/2023 11:27 AM**			
Client ID:		Run ID: **VMS9_231108A**			SeqNo: **10180768**	Prep Date:		DF: **1**		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	1.0								
1,1,2,2-Tetrachloroethane	U	1.0								
1,1,2-Trichloroethane	U	1.0								
1,1,2-Trichlorotrifluoroethane	U	1.0								
1,1-Dichloroethane	U	1.0								
1,1-Dichloroethene	U	1.0								
1,2,3-Trichlorobenzene	U	1.0								
1,2,3-Trichloropropane	U	1.0								
1,2,4-Trichlorobenzene	U	1.0								
1,2,4-Trimethylbenzene	U	1.0								
1,2-Dibromo-3-chloropropane	U	1.0								
1,2-Dibromoethane	U	1.0								
1,2-Dichlorobenzene	U	1.0								
1,2-Dichloroethane	U	1.0								
1,2-Dichloropropane	U	1.0								
1,3,5-Trimethylbenzene	U	1.0								
1,3-Dichlorobenzene	U	1.0								
1,4-Dichlorobenzene	U	1.0								
2-Butanone	U	5.0								
2-Hexanone	U	5.0								
4-Methyl-2-pentanone	U	1.0								
Acetone	U	10								
Benzene	U	1.0								
Bromochloromethane	U	1.0								
Bromodichloromethane	U	1.0								
Bromoform	U	1.0								
Bromomethane	U	1.0								
Carbon disulfide	U	1.0								
Carbon tetrachloride	U	1.0								
Chlorobenzene	U	1.0								
Chloroethane	U	1.0								
Chloroform	U	1.0								
Chloromethane	U	1.0								
cis-1,2-Dichloroethene	U	1.0								
cis-1,3-Dichloropropene	U	1.0								
Cyclohexane	U	2.0								
Dibromochloromethane	U	1.0								
Dichlorodifluoromethane	U	1.0								
Ethylbenzene	U	1.0								
Isopropylbenzene	U	1.0								
m,p-Xylene	U	2.0								
Methyl acetate	U	2.0								

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

Batch ID: **R388535b** Instrument ID **VMS9** Method: **SW8260D**

Methyl tert-butyl ether	U	1.0					
Methylcyclohexane	U	1.0					
Methylene chloride	U	5.0					
o-Xylene	U	1.0					
Styrene	U	1.0					
Tetrachloroethene	U	1.0					
Toluene	U	1.0					
trans-1,2-Dichloroethene	U	1.0					
trans-1,3-Dichloropropene	U	1.0					
Trichloroethene	U	1.0					
Trichlorofluoromethane	U	1.0					
Vinyl chloride	U	1.0					
Xylenes, Total	U	3.0					
Surr: 1,2-Dichloroethane-d4	*20.58*	0	*20*	0	*103*	*80-120*	0
Surr: 4-Bromofluorobenzene	*18.14*	0	*20*	0	*90.7*	*80-120*	0
Surr: Dibromofluoromethane	*19.96*	0	*20*	0	*99.8*	*80-120*	0
Surr: Toluene-d8	*19.47*	0	*20*	0	*97.4*	*80-120*	0

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

Client: Mull Drilling Company
Work Order: 23102587
Project: Peck Tank Battery

QC BATCH REPORT

Batch ID: **R388535b** Instrument ID **VMS9** Method: **SW8260D**

LCS	Sample ID: **9V-LCSW1-231108-R388535b**				Units: **µg/L**			Analysis Date: **11/8/2023 10:41 AM**		
Client ID:	Run ID: **VMS9_231108A**				SeqNo: **10180764**		Prep Date:		DF: **1**	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	19.01	1.0	20	0	95	75-119	0			
1,1,2,2-Tetrachloroethane	20.46	1.0	20	0	102	80-123	0			
1,1,2-Trichloroethane	19.99	1.0	20	0	100	83-118	0			
1,1,2-Trichlorotrifluoroethane	21.34	1.0	20	0	107	64-133	0			
1,1-Dichloroethane	21.24	1.0	20	0	106	73-122	0			
1,1-Dichloroethene	22.31	1.0	20	0	112	66-131	0			
1,2,3-Trichlorobenzene	19.01	1.0	20	0	95	65-140	0			
1,2,3-Trichloropropane	18.94	1.0	20	0	94.7	78-119	0			
1,2,4-Trichlorobenzene	19.15	1.0	20	0	95.8	73-127	0			
1,2,4-Trimethylbenzene	21.8	1.0	20	0	109	74-118	0			
1,2-Dibromo-3-chloropropane	15.23	1.0	20	0	76.2	52-141	0			
1,2-Dibromoethane	19.73	1.0	20	0	98.6	60-159	0			
1,2-Dichlorobenzene	20.72	1.0	20	0	104	80-119	0			
1,2-Dichloroethane	20.4	1.0	20	0	102	78-121	0			
1,2-Dichloropropane	20.44	1.0	20	0	102	78-120	0			
1,3,5-Trimethylbenzene	22.01	1.0	20	0	110	76-120	0			
1,3-Dichlorobenzene	20.89	1.0	20	0	104	80-120	0			
1,4-Dichlorobenzene	21.96	1.0	20	0	110	81-119	0			
2-Butanone	19.28	5.0	20	0	96.4	69-147	0			
2-Hexanone	17.22	5.0	20	0	86.1	67-140	0			
4-Methyl-2-pentanone	22.98	1.0	20	0	115	68-199	0			
Acetone	20.55	10	20	0	103	70-166	0			
Benzene	22.28	1.0	20	0	111	78-120	0			
Bromochloromethane	22.83	1.0	20	0	114	70-125	0			
Bromodichloromethane	18.45	1.0	20	0	92.2	73-126	0			
Bromoform	17.99	1.0	20	0	90	60-124	0			
Bromomethane	30.83	1.0	20	0	154	20-183	0			
Carbon disulfide	23.04	1.0	20	0	115	67-159	0			
Carbon tetrachloride	18	1.0	20	0	90	69-124	0			
Chlorobenzene	20.67	1.0	20	0	103	80-118	0			
Chloroethane	20.04	1.0	20	0	100	35-136	0			
Chloroform	20.62	1.0	20	0	103	75-119	0			
Chloromethane	14.48	1.0	20	0	72.4	26-117	0			
cis-1,2-Dichloroethene	21.31	1.0	20	0	107	75-123	0			
cis-1,3-Dichloropropene	16.48	1.0	20	0	82.4	69-120	0			
Cyclohexane	20.71	2.0	20	0	104	66-128	0			
Dibromochloromethane	18.72	1.0	20	0	93.6	63-117	0			
Dichlorodifluoromethane	12.18	1.0	20	0	60.9	36-133	0			
Ethylbenzene	22.39	1.0	20	0	112	76-116	0			
Isopropylbenzene	23.12	1.0	20	0	116	77-118	0			
m,p-Xylene	45.53	2.0	40	0	114	76-119	0			
Methyl tert-butyl ether	20.31	1.0	20	0	102	77-137	0			

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

QC BATCH REPORT

Batch ID: **R388535b** Instrument ID **VMS9** Method: **SW8260D**

Methylcyclohexane	20.41	1.0	20	0	102	66-125	0
Methylene chloride	21.5	5.0	20	0	108	68-125	0
o-Xylene	21.68	1.0	20	0	108	77-116	0
Styrene	23.17	1.0	20	0	116	76-123	0
Tetrachloroethene	21.11	1.0	20	0	106	80-124	0
Toluene	20.82	1.0	20	0	104	78-116	0
trans-1,2-Dichloroethene	21.84	1.0	20	0	109	73-124	0
trans-1,3-Dichloropropene	19.41	1.0	20	0	97	67-118	0
Trichloroethene	19.98	1.0	20	0	99.9	75-122	0
Trichlorofluoromethane	19.58	1.0	20	0	97.9	52-115	0
Vinyl chloride	18.18	1.0	20	0	90.9	49-122	0
Xylenes, Total	67.21	3.0	60	0	112	77-119	0
Surr: 1,2-Dichloroethane-d4	*20.56*	0	*20*	0	*103*	*80-120*	0
Surr: 4-Bromofluorobenzene	*19.96*	0	*20*	0	*99.8*	*80-120*	0
Surr: Dibromofluoromethane	*21.21*	0	*20*	0	*106*	*80-120*	0
Surr: Toluene-d8	*19.11*	0	*20*	0	*95.6*	*80-120*	0

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

Client: Mull Drilling Company
Work Order: 23102587
Project: Peck Tank Battery

QC BATCH REPORT

Batch ID: **R388535b** Instrument ID **VMS9** Method: **SW8260D**

MS	Sample ID: **23110199-08E MS**				Units: **µg/L**			Analysis Date: **11/8/2023 06:06 PM**			
Client ID:		Run ID: **VMS9_231108A**			SeqNo: **10180799**		Prep Date:		DF: **10**		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	210.6	10	200	0	105	75-119	0			
1,1,2,2-Tetrachloroethane	209.5	10	200	0	105	80-123	0			
1,1,2-Trichloroethane	204.9	10	200	0	102	83-118	0			
1,1,2-Trichlorotrifluoroethane	235	10	200	0	118	64-133	0			
1,1-Dichloroethane	227.9	10	200	0	114	73-122	0			
1,1-Dichloroethene	248.9	10	200	0	124	66-131	0			
1,2,3-Trichlorobenzene	184.7	10	200	0	92.4	65-140	0			
1,2,3-Trichloropropane	197.2	10	200	0	98.6	78-119	0			
1,2,4-Trichlorobenzene	184.2	10	200	0	92.1	73-127	0			
1,2,4-Trimethylbenzene	222.6	10	200	0	111	74-118	0			
1,2-Dibromo-3-chloropropane	155.4	10	200	0	77.7	52-141	0			
1,2-Dibromoethane	197.6	10	200	0	98.8	60-159	0			
1,2-Dichlorobenzene	223	10	200	0	112	80-119	0			
1,2-Dichloroethane	224	10	200	0	112	78-121	0			
1,2-Dichloropropane	220	10	200	0	110	78-120	0			
1,3,5-Trimethylbenzene	226	10	200	0	113	76-120	0			
1,3-Dichlorobenzene	223.4	10	200	0	112	80-120	0			
1,4-Dichlorobenzene	224.8	10	200	0	112	81-119	0			
2-Butanone	216.8	50	200	0	108	69-147	0			
2-Hexanone	164.1	50	200	0	82	67-140	0			
4-Methyl-2-pentanone	223.6	10	200	0	112	68-199	0			
Acetone	203.6	100	200	3.4	100	70-166	0			
Benzene	245.7	10	200	0	123	78-120	0			S
Bromochloromethane	253.3	10	200	0	127	70-125	0			S
Bromodichloromethane	198.1	10	200	0	99	73-126	0			
Bromoform	171.5	10	200	0	85.8	60-124	0			
Bromomethane	421	10	200	0	210	20-183	0			S
Carbon disulfide	238.1	10	200	0	119	67-159	0			
Carbon tetrachloride	190.7	10	200	0	95.4	69-124	0			
Chlorobenzene	224.2	10	200	0	112	80-118	0			
Chloroethane	284.7	10	200	0	142	35-136	0			S
Chloroform	223.3	10	200	0	112	75-119	0			
Chloromethane	146.5	10	200	0	73.2	26-117	0			
cis-1,2-Dichloroethene	227.5	10	200	0	114	75-123	0			
cis-1,3-Dichloropropene	161.4	10	200	0	80.7	69-120	0			
Cyclohexane	226.7	20	200	0	113	66-128	0			
Dibromochloromethane	190.3	10	200	0	95.2	63-117	0			
Dichlorodifluoromethane	134.4	10	200	0	67.2	36-133	0			
Ethylbenzene	244.9	10	200	0	122	76-116	0			S
Isopropylbenzene	245.5	10	200	0	123	77-118	0			S
m,p-Xylene	505.2	20	400	0	126	76-119	0			S
Methyl tert-butyl ether	204.5	10	200	0	102	77-137	0			

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

QC BATCH REPORT

Batch ID: **R388535b** Instrument ID **VMS9** Method: **SW8260D**

Methylcyclohexane	219.4	10	200	0	110	66-125	0	
Methylene chloride	224.7	50	200	0	112	68-125	0	
o-Xylene	239	10	200	0	120	77-116	0	S
Styrene	245.8	10	200	0	123	76-123	0	
Tetrachloroethene	249.7	10	200	0	125	80-124	0	S
Toluene	226	10	200	0	113	78-116	0	
trans-1,2-Dichloroethene	235.3	10	200	0	118	73-124	0	
trans-1,3-Dichloropropene	190.9	10	200	0	95.4	67-118	0	
Trichloroethene	229.3	10	200	0	115	75-122	0	
Trichlorofluoromethane	219.5	10	200	0	110	52-115	0	
Vinyl chloride	214.5	10	200	0	107	49-122	0	
Xylenes, Total	744.2	30	600	0	124	77-119	0	S
Surr: 1,2-Dichloroethane-d4	*209.2*	0	*200*	0	*105*	*80-120*	0	
Surr: 4-Bromofluorobenzene	*194.8*	0	*200*	0	*97.4*	*80-120*	0	
Surr: Dibromofluoromethane	*211.8*	0	*200*	0	*106*	*80-120*	0	
Surr: Toluene-d8	*196*	0	*200*	0	*98*	*80-120*	0	

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

Client: Mull Drilling Company
Work Order: 23102587
Project: Peck Tank Battery

QC BATCH REPORT

Batch ID: **R388535b** Instrument ID **VMS9** Method: **SW8260D**

MSD	Sample ID: **23110199-08E MSD**				Units: **µg/L**			Analysis Date: **11/8/2023 06:21 PM**			
Client ID:		Run ID: **VMS9_231108A**			SeqNo: **10180800**		Prep Date:		DF: **10**		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	214.7	10	200	0	107	75-119	210.6	1.93	30	
1,1,2,2-Tetrachloroethane	215.2	10	200	0	108	80-123	209.5	2.68	30	
1,1,2-Trichloroethane	208.6	10	200	0	104	83-118	204.9	1.79	30	
1,1,2-Trichlorotrifluoroethane	231.3	10	200	0	116	64-133	235	1.59	30	
1,1-Dichloroethane	231.9	10	200	0	116	73-122	227.9	1.74	30	
1,1-Dichloroethene	243.8	10	200	0	122	66-131	248.9	2.07	30	
1,2,3-Trichlorobenzene	188.9	10	200	0	94.4	65-140	184.7	2.25	30	
1,2,3-Trichloropropane	203.8	10	200	0	102	78-119	197.2	3.29	30	
1,2,4-Trichlorobenzene	190.6	10	200	0	95.3	73-127	184.2	3.42	30	
1,2,4-Trimethylbenzene	229.3	10	200	0	115	74-118	222.6	2.97	30	
1,2-Dibromo-3-chloropropane	162.4	10	200	0	81.2	52-141	155.4	4.41	30	
1,2-Dibromoethane	207.8	10	200	0	104	60-159	197.6	5.03	30	
1,2-Dichlorobenzene	227.6	10	200	0	114	80-119	223	2.04	30	
1,2-Dichloroethane	213.5	10	200	0	107	78-121	224	4.8	30	
1,2-Dichloropropane	222.7	10	200	0	111	78-120	220	1.22	30	
1,3,5-Trimethylbenzene	235.6	10	200	0	118	76-120	226	4.16	30	
1,3-Dichlorobenzene	224.9	10	200	0	112	80-120	223.4	0.669	30	
1,4-Dichlorobenzene	229	10	200	0	114	81-119	224.8	1.85	30	
2-Butanone	208.4	50	200	0	104	69-147	216.8	3.95	30	
2-Hexanone	166.3	50	200	0	83.2	67-140	164.1	1.33	30	
4-Methyl-2-pentanone	232.8	10	200	0	116	68-199	223.6	4.03	30	
Acetone	205.2	100	200	3.4	101	70-166	203.6	0.783	30	
Benzene	240.6	10	200	0	120	78-120	245.7	2.1	30	S
Bromochloromethane	242.8	10	200	0	121	70-125	253.3	4.23	30	
Bromodichloromethane	204.5	10	200	0	102	73-126	198.1	3.18	30	
Bromoform	186.9	10	200	0	93.4	60-124	171.5	8.59	30	
Bromomethane	426.3	10	200	0	213	20-183	421	1.25	30	S
Carbon disulfide	253.1	10	200	0	127	67-159	238.1	6.11	30	
Carbon tetrachloride	201.2	10	200	0	101	69-124	190.7	5.36	30	
Chlorobenzene	224.4	10	200	0	112	80-118	224.2	0.0892	30	
Chloroethane	280.8	10	200	0	140	35-136	284.7	1.38	30	S
Chloroform	218.4	10	200	0	109	75-119	223.3	2.22	30	
Chloromethane	144.9	10	200	0	72.4	26-117	146.5	1.1	30	
cis-1,2-Dichloroethene	228	10	200	0	114	75-123	227.5	0.22	30	
cis-1,3-Dichloropropene	166.5	10	200	0	83.2	69-120	161.4	3.11	30	
Cyclohexane	221.3	20	200	0	111	66-128	226.7	2.41	30	
Dibromochloromethane	204.6	10	200	0	102	63-117	190.3	7.24	30	
Dichlorodifluoromethane	131.9	10	200	0	66	36-133	134.4	1.88	30	
Ethylbenzene	249.2	10	200	0	125	76-116	244.9	1.74	30	S
Isopropylbenzene	250.5	10	200	0	125	77-118	245.5	2.02	30	S
m,p-Xylene	505.4	20	400	0	126	76-119	505.2	0.0396	30	S
Methyl tert-butyl ether	198.8	10	200	0	99.4	77-137	204.5	2.83	30	

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

QC BATCH REPORT

Batch ID: **R388535b** Instrument ID **VMS9** Method: **SW8260D**

Methylcyclohexane	214.6	10	200	0	107	66-125	219.4	2.21	30	
Methylene chloride	222.5	50	200	0	111	68-125	224.7	0.984	30	
o-Xylene	242.9	10	200	0	121	77-116	239	1.62	30	S
Styrene	248.1	10	200	0	124	76-123	245.8	0.931	30	S
Tetrachloroethene	253	10	200	0	126	80-124	249.7	1.31	30	S
Toluene	233.5	10	200	0	117	78-116	226	3.26	30	S
trans-1,2-Dichloroethene	235.9	10	200	0	118	73-124	235.3	0.255	30	
trans-1,3-Dichloropropene	202.3	10	200	0	101	67-118	190.9	5.8	30	
Trichloroethene	220.7	10	200	0	110	75-122	229.3	3.82	30	
Trichlorofluoromethane	218.6	10	200	0	109	52-115	219.5	0.411	30	
Vinyl chloride	209.8	10	200	0	105	49-122	214.5	2.22	30	
Xylenes, Total	748.3	30	600	0	125	77-119	744.2	0.549	30	S
Surr: 1,2-Dichloroethane-d4	*210*	0	*200*	0	*105*	*80-120*	209.2	*0.382*	*30*	
Surr: 4-Bromofluorobenzene	*191.1*	0	*200*	0	*95.6*	*80-120*	194.8	*1.92*	*30*	
Surr: Dibromofluoromethane	*208.3*	0	*200*	0	*104*	*80-120*	211.8	*1.67*	*30*	
Surr: Toluene-d8	*196*	0	*200*	0	*98*	*80-120*	196	*0*	*30*	

The following samples were analyzed in this batch: 23102587-07C

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

Client: Mull Drilling Company
Work Order: 23102587
Project: Peck Tank Battery

QC BATCH REPORT

Batch ID: **R388582** Instrument ID **VMS8** Method: **SW8260D**

MBLK Sample ID: **8V-BLKS1-231108-R388582** Units: **µg/Kg** Analysis Date: **11/8/2023 02:06 PM**
Client ID: Run ID: **VMS8_231108A** SeqNo: **10181879** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trimethylbenzene	U	5.0								
1,3,5-Trimethylbenzene	U	5.0								
Benzene	U	5.0								
Ethylbenzene	U	5.0								
m,p-Xylene	U	2.5								
o-Xylene	U	2.5								
Toluene	U	5.0								
Xylenes, Total	U	5.0								
Surr: 1,2-Dichloroethane-d4	*19.98*	0	*20*	0	*99.9*	*83-132*	0			
Surr: 4-Bromofluorobenzene	*18.58*	0	*20*	0	*92.9*	*83-111*	0			
Surr: Dibromofluoromethane	*20.7*	0	*20*	0	*104*	*77-125*	0			
Surr: Toluene-d8	*19.65*	0	*20*	0	*98.2*	*86-108*	0			

LCS Sample ID: **8V-LCSS1-231108-R388582** Units: **µg/Kg** Analysis Date: **11/8/2023 01:27 PM**
Client ID: Run ID: **VMS8_231108A** SeqNo: **10181878** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trimethylbenzene	19.28	5.0	20	0	96.4	71-133	0			
1,3,5-Trimethylbenzene	20.54	5.0	20	0	103	71-139	0			
Benzene	19.08	5.0	20	0	95.4	77-133	0			
Ethylbenzene	20.05	5.0	20	0	100	75-133	0			
m,p-Xylene	39.71	2.5	40	0	99.3	75-134	0			
o-Xylene	20.94	2.5	20	0	105	76-130	0			
Toluene	20.27	5.0	20	0	101	76-130	0			
Xylenes, Total	60.65	5.0	60	0	101	75-132	0			
Surr: 1,2-Dichloroethane-d4	*18.51*	0	*20*	0	*92.6*	*83-132*	0			
Surr: 4-Bromofluorobenzene	*19.1*	0	*20*	0	*95.5*	*83-111*	0			
Surr: Dibromofluoromethane	*18.7*	0	*20*	0	*93.5*	*77-125*	0			
Surr: Toluene-d8	*20.35*	0	*20*	0	*102*	*86-108*	0			

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

Client: Mull Drilling Company
Work Order: 23102587
Project: Peck Tank Battery

QC BATCH REPORT

Batch ID: **R388582** Instrument ID **VMS8** Method: **SW8260D**

MS Sample ID: **23102543-04A MS** Units: **µg/Kg** Analysis Date: **11/8/2023 08:41 PM**
Client ID: Run ID: **VMS8_231108A** SeqNo: **10181909** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trimethylbenzene	8.76	5.0	20	0	43.8	71-133	0			S
1,3,5-Trimethylbenzene	10.13	5.0	20	0	50.6	71-139	0			S
Benzene	15.56	5.0	20	0	77.8	77-133	0			
Ethylbenzene	12.12	5.0	20	0	60.6	75-133	0			S
m,p-Xylene	22.85	2.5	40	0	57.1	75-134	0			S
o-Xylene	12.02	2.5	20	0	60.1	76-130	0			S
Toluene	13.36	5.0	20	0	66.8	76-130	0			S
Xylenes, Total	34.87	5.0	60	0	58.1	75-132	0			S
Surr: 1,2-Dichloroethane-d4	*20.33*	0	*20*	0	*102*	*83-132*	0			
Surr: 4-Bromofluorobenzene	*19.51*	0	*20*	0	*97.6*	*83-111*	0			
Surr: Dibromofluoromethane	*20.67*	0	*20*	0	*103*	*77-125*	0			
Surr: Toluene-d8	*19.51*	0	*20*	0	*97.6*	*86-108*	0			

MSD Sample ID: **23102543-04A MSD** Units: **µg/Kg** Analysis Date: **11/8/2023 09:00 PM**
Client ID: Run ID: **VMS8_231108A** SeqNo: **10181910** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trimethylbenzene	8.22	5.0	20	0	41.1	71-133	8.76	6.36	30	S
1,3,5-Trimethylbenzene	9.36	5.0	20	0	46.8	71-139	10.13	7.9	30	S
Benzene	15.34	5.0	20	0	76.7	77-133	15.56	1.42	30	S
Ethylbenzene	11.96	5.0	20	0	59.8	75-133	12.12	1.33	30	S
m,p-Xylene	22.38	2.5	40	0	56	75-134	22.85	2.08	30	S
o-Xylene	11.67	2.5	20	0	58.4	76-130	12.02	2.95	30	S
Toluene	13.03	5.0	20	0	65.2	76-130	13.36	2.5	30	S
Xylenes, Total	34.05	5.0	60	0	56.8	75-132	34.87	2.38	30	S
Surr: 1,2-Dichloroethane-d4	*19.44*	0	*20*	0	*97.2*	*83-132*	20.33	*4.48*	*30*	
Surr: 4-Bromofluorobenzene	*19.14*	0	*20*	0	*95.7*	*83-111*	19.51	*1.91*	*30*	
Surr: Dibromofluoromethane	*20.35*	0	*20*	0	*102*	*77-125*	20.67	*1.56*	*30*	
Surr: Toluene-d8	*19.5*	0	*20*	0	*97.5*	*86-108*	19.51	*0.0513*	*30*	

The following samples were analyzed in this batch: 23102587-01C

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

Client: Mull Drilling Company
Work Order: 23102587
Project: Peck Tank Battery

QC BATCH REPORT

Batch ID: **R388669a** Instrument ID **VMS8** Method: **SW8260D**

MBLK Sample ID: **8V-BLKS2-231108-R388669a** Units: **µg/Kg** Analysis Date: **11/9/2023 12:07 AM**
Client ID: Run ID: **VMS8_231108B** SeqNo: **10183040** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trimethylbenzene	U	5.0								
1,3,5-Trimethylbenzene	U	5.0								
Benzene	U	5.0								
Ethylbenzene	U	5.0								
m,p-Xylene	U	2.5								
o-Xylene	U	2.5								
Toluene	U	5.0								
Xylenes, Total	U	5.0								
Surr: 1,2-Dichloroethane-d4	*18.77*	0	*20*	0	*93.8*	*83-132*	0			
Surr: 4-Bromofluorobenzene	*17.84*	0	*20*	0	*89.2*	*83-111*	0			
Surr: Dibromofluoromethane	*20.57*	0	*20*	0	*103*	*77-125*	0			
Surr: Toluene-d8	*19.14*	0	*20*	0	*95.7*	*86-108*	0			

LCS Sample ID: **8V-LCSS2-231108-R388669a** Units: **µg/Kg** Analysis Date: **11/8/2023 11:12 PM**
Client ID: Run ID: **VMS8_231108B** SeqNo: **10183038** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trimethylbenzene	16.66	5.0	20	0	83.3	71-133	0			
1,3,5-Trimethylbenzene	17.44	5.0	20	0	87.2	71-139	0			
Benzene	18.77	5.0	20	0	93.8	77-133	0			
Ethylbenzene	17.41	5.0	20	0	87	75-133	0			
m,p-Xylene	34.33	2.5	40	0	85.8	75-134	0			
o-Xylene	18.48	2.5	20	0	92.4	76-130	0			
Toluene	17.54	5.0	20	0	87.7	76-130	0			
Xylenes, Total	52.81	5.0	60	0	88	75-132	0			
Surr: 1,2-Dichloroethane-d4	*18.74*	0	*20*	0	*93.7*	*83-132*	0			
Surr: 4-Bromofluorobenzene	*18.81*	0	*20*	0	*94*	*83-111*	0			
Surr: Dibromofluoromethane	*19.88*	0	*20*	0	*99.4*	*77-125*	0			
Surr: Toluene-d8	*19.26*	0	*20*	0	*96.3*	*86-108*	0			

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

Client: Mull Drilling Company
Work Order: 23102587
Project: Peck Tank Battery

QC BATCH REPORT

Batch ID: **R388669a** Instrument ID **VMS8** Method: **SW8260D**

MS	Sample ID: **23102529-03A MS**				Units: **µg/Kg**			Analysis Date: **11/9/2023 06:44 AM**		
Client ID:	Run ID: **VMS8_231108B**			SeqNo: **10183062**	Prep Date:		DF: **0.796**			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trimethylbenzene	12.62	4.0	15.92	0	79.3	71-133	0			
1,3,5-Trimethylbenzene	13.75	4.0	15.92	0	86.3	71-139	0			
Benzene	16.3	4.0	15.92	1.294	94.3	77-133	0			
Ethylbenzene	13.96	4.0	15.92	0	87.7	75-133	0			
m,p-Xylene	26.6	2.0	31.84	0	83.5	75-134	0			
o-Xylene	14.42	2.0	15.92	0	90.6	76-130	0			
Toluene	14.5	4.0	15.92	0	91.1	76-130	0			
Xylenes, Total	41.02	4.0	47.76	0	85.9	75-132	0			
Surr: 1,2-Dichloroethane-d4	*15.64*	0	*15.92*	0	*98.2*	*83-132*	0			
Surr: 4-Bromofluorobenzene	*15.12*	0	*15.92*	0	*95*	*83-111*	0			
Surr: Dibromofluoromethane	*15.67*	0	*15.92*	0	*98.4*	*77-125*	0			
Surr: Toluene-d8	*15.47*	0	*15.92*	0	*97.2*	*86-108*	0			

MSD	Sample ID: **23102529-03A MSD**				Units: **µg/Kg**			Analysis Date: **11/9/2023 07:03 AM**		
Client ID:	Run ID: **VMS8_231108B**			SeqNo: **10183063**	Prep Date:		DF: **0.784**			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trimethylbenzene	12.74	3.9	15.68	0	81.2	71-133	12.62	0.91	30	
1,3,5-Trimethylbenzene	13.99	3.9	15.68	0	89.2	71-139	13.75	1.73	30	
Benzene	16.65	3.9	15.68	1.294	97.9	77-133	16.3	2.12	30	
Ethylbenzene	14.25	3.9	15.68	0	90.9	75-133	13.96	2.06	30	
m,p-Xylene	27.29	2.0	31.36	0	87	75-134	26.6	2.56	30	
o-Xylene	15.16	2.0	15.68	0	96.7	76-130	14.42	5.05	30	
Toluene	14.72	3.9	15.68	0	93.9	76-130	14.5	1.56	30	
Xylenes, Total	42.45	3.9	47.04	0	90.2	75-132	41.02	3.44	30	
Surr: 1,2-Dichloroethane-d4	*15.77*	0	*15.68*	0	*101*	*83-132*	15.64	*0.845*	*30*	
Surr: 4-Bromofluorobenzene	*14.92*	0	*15.68*	0	*95.1*	*83-111*	15.12	*1.36*	*30*	
Surr: Dibromofluoromethane	*16.31*	0	*15.68*	0	*104*	*77-125*	15.67	*4.02*	*30*	
Surr: Toluene-d8	*15.04*	0	*15.68*	0	*96*	*86-108*	15.47	*2.76*	*30*	

The following samples were analyzed in this batch: 23102587-03C 23102587-04C 23102587-05C 23102587-06C

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

Client: Mull Drilling Company
Work Order: 23102587
Project: Peck Tank Battery

QC BATCH REPORT

Batch ID: **228580** Instrument ID **WETCHEM** Method: **USDA Method 20**

DUP Sample ID: **23102586-11ADUP** Units: **s.u.** Analysis Date: **11/4/2023 10:31 AM**
Client ID: Run ID: **WETCHEM_231104A** SeqNo: **10165445** Prep Date: **11/3/2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH @ Saturation	6.99	0.10	0	0	0	0-0	7.17	2.54	20	

DUP Sample ID: **23102586-11ADUP** Units: **mmhos/cm @25°** Analysis Date: **11/4/2023 11:30 AM**
Client ID: Run ID: **WETCHEM_231104B** SeqNo: **10165618** Prep Date: **11/3/2023** DF: **20**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	0.6792	0.10	0	0	0		0.9046	28.5	50	

The following samples were analyzed in this batch:

23102587-01A	23102587-02A	23102587-03A
23102587-04A	23102587-05A	23102587-06A

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

Client: Mull Drilling Company
Work Order: 23102587
Project: Peck Tank Battery

QC BATCH REPORT

Batch ID: **228614** Instrument ID **SPEC-04** Method: **SW7196A**

MBLK Sample ID: **MBLK-228614-228614** Units: **mg/Kg** Analysis Date: **11/5/2023 03:02 PM**
Client ID: Run ID: **SPEC-04_231105A** SeqNo: **10166206** Prep Date: **11/4/2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	U	1.0								

LCS Sample ID: **LCS-228614-228614** Units: **mg/Kg** Analysis Date: **11/5/2023 03:02 PM**
Client ID: Run ID: **SPEC-04_231105A** SeqNo: **10166207** Prep Date: **11/4/2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	4.713	0.99	4.95	0	95.2	80-120	0			

MS Sample ID: **23102587-06A MS** Units: **mg/Kg** Analysis Date: **11/5/2023 03:02 PM**
Client ID: **SB 5** Run ID: **SPEC-04_231105A** SeqNo: **10166214** Prep Date: **11/4/2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	2.039	0.98	4.902	-0.2157	46	75-125	0			S

MS Sample ID: **23102587-06A MSI** Units: **mg/Kg** Analysis Date: **11/5/2023 03:02 PM**
Client ID: **SB 5** Run ID: **SPEC-04_231105A** SeqNo: **10166216** Prep Date: **11/4/2023** DF: **100**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	1541	97	1875	-0.2157	82.2	75-125	0			

MSD Sample ID: **23102587-06A MSD** Units: **mg/Kg** Analysis Date: **11/5/2023 03:02 PM**
Client ID: **SB 5** Run ID: **SPEC-04_231105A** SeqNo: **10166215** Prep Date: **11/4/2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	1.931	0.99	4.95	-0.2157	43.4	75-125	2.039	5.47	20	S

The following samples were analyzed in this batch:

23102587-01A	23102587-02A	23102587-03A
23102587-04A	23102587-05A	23102587-06A

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

Client: Mull Drilling Company
Work Order: 23102587
Project: Peck Tank Battery

QC BATCH REPORT

Batch ID: **R387002** Instrument ID **MOIST** Method: **SW3550C**

MBLK Sample ID: **WBLKS-R387002** Units: **% of sample** Analysis Date: **10/31/2023 01:22 PM**
Client ID: Run ID: **MOIST_231031B** SeqNo: **10152666** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	U	0.10								

LCS Sample ID: **LCS-R387002** Units: **% of sample** Analysis Date: **10/31/2023 01:22 PM**
Client ID: Run ID: **MOIST_231031B** SeqNo: **10152665** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	100	0.10	100	0	100	98-102	0			

DUP Sample ID: **23102585-13B DUP** Units: **% of sample** Analysis Date: **10/31/2023 01:22 PM**
Client ID: Run ID: **MOIST_231031B** SeqNo: **10152645** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	6.48	0.10	0	0	0	0-0	6.65	2.59	10	

DUP Sample ID: **23102586-03B DUP** Units: **% of sample** Analysis Date: **10/31/2023 01:22 PM**
Client ID: Run ID: **MOIST_231031B** SeqNo: **10152650** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	2.89	0.10	0	0	0	0-0	2.74	5.33	10	

The following samples were analyzed in this batch:

23102587-01B	23102587-02B	23102587-03B
23102587-04B	23102587-05B	23102587-06B

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

Chain of Custody Form

ALS Group USA, Corp

Work Order: _____

Company Name	Mull Drilling Company	Purchase Order		Parameter/Method Request for Analysis	
		Company Name	Mull Drilling Company	A	Table 915-1
Send Report To	James Beilman	Invoice Attn	Accounts Payable	B	
Project Name		Project #	Peck Tank Battery	C	
Address	1700 N Waterfront Pkwy, Bld. 1200	Address	1700 N Waterfront Pkwy, Bld. 1200	D	
				E	
				F	
City State Zip	Wichita, KS 67206	City State Zip	Wichita, KS 67206	G	
Phone	3162646366	Phone	3162646366	H	
e-Mail Address		e-Mail Address		I	
				J	

#	Sample Description	Date	Time	Matrix	Preservative	# Bottles	A	B	C	D	E	e Notes
1	SB 1	10/25/23	1215	Soil	Various	5	5					
2	SB 1 4'		1220									
3	SB 2		1225									
4	SB 3		1230									
5	SB 4		1235									
6	SB 5		1240									
7												
8												
9												
10												

23102587
MULL DRILLING: Mull Drilling Company
Project: Pack Tank Battery

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

Preservative Key: 1-HCL, 2-HNO3, 3-H2SO4, 4-NaOH, 5-Na2S2O3, 6-NaHSO4, 7-Other, 8-4 degrees C, 9-5035

Required Turnaround Time: ___ Std 10 Wk days ___ 5 Wk days ___ 2 Wk days ___ 24 hr

Results Due:

Relinquised by	Date	Time	Received by	Date	Time
James Beilman	10/25/23	1730	Fedex		
Fedex	10/28/23	915	[illegible]	10/28/23	915

NOTES: 3.4°C OF2

QC Reporting Level: (check box below)

- Level II: Standard QC
- Level III: Std QC + Raw data
- Level IV: SW846 CLP-Like
- Other:

ALS Group USA, Corp | 3352 128th Ave | | Holland Michigan 49424 | TEL. (616) 399-6070

ALS Group, USA
Holland, Michigan

Sample Receipt Checklist

Client Name: **MULLDRILLING** Date/Time Received: **28-Oct-23 09:15**

Work Order: **23102587** Received by: **WSK**

Checklist completed by Weston Kotecki (eSignature) 28-Oct-23 (Date) Reviewed by: Chad Whelton (eSignature) 31-Oct-23 (Date)

Matrices: Soil
Carrier name: FedEx

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 ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody 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 ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Sample(s) received on ice?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	3.4/3.4C	DF2	
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	10/28/2023 2:33:07 PM		
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:	-		

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction: