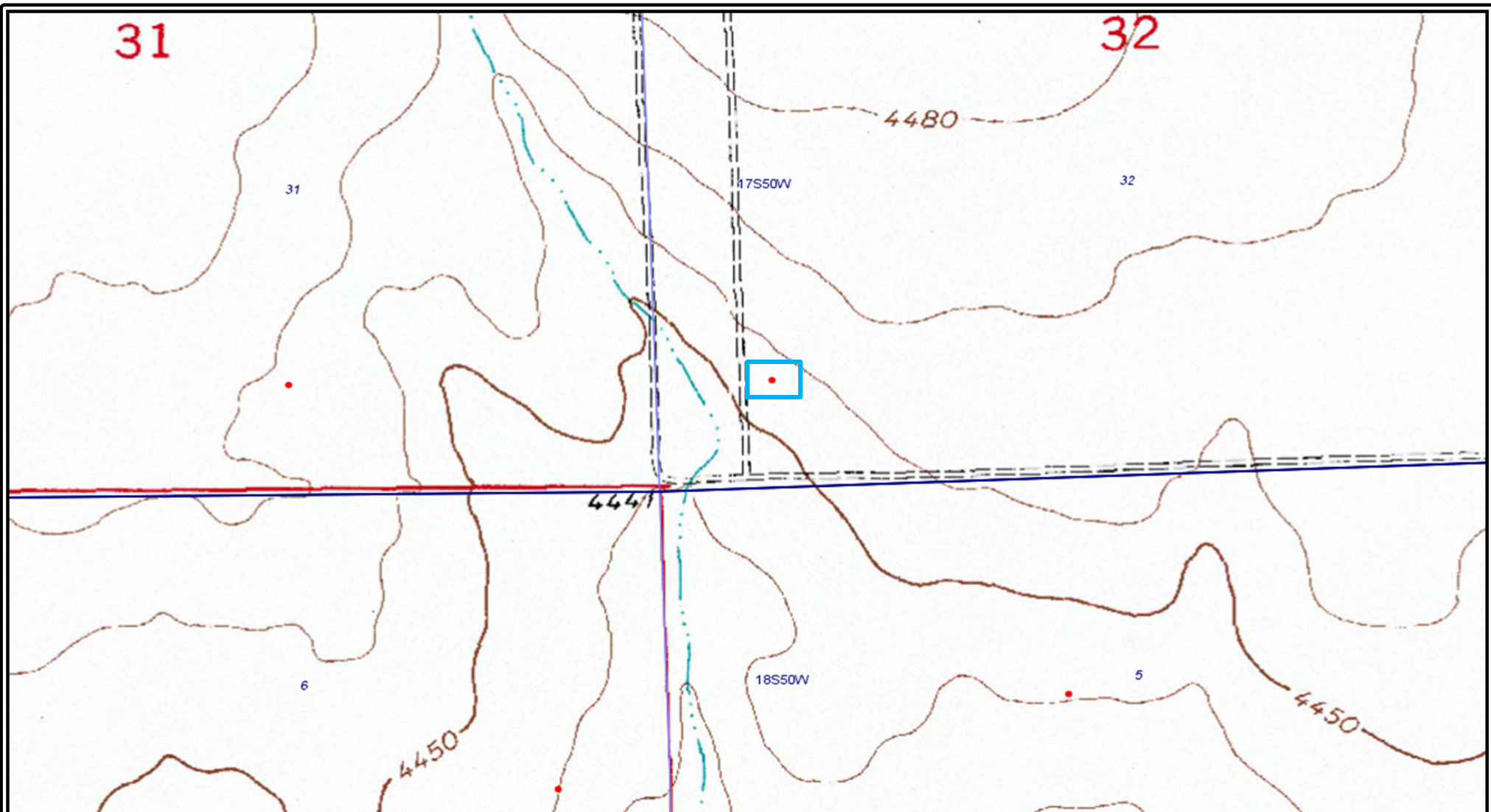


FIGURES

Figure 1: Topographic Site Location Map

Figure 2: Soil Sample Location Map

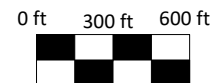


MULL DRILLING COMPANY, INC.
PECK-617S50W
FACILITY: 324857
SWSW S32, T17S R50W, KIOWA COUNTY
TOPOGRAPHIC MAP

Legend



Location Boundary



Prepared By:
Ardor Environmental LLC

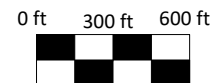
December 26, 2023



MULL DRILLING COMPANY, INC.
PECK-617S50W
FACILITY: 324857
SWSW S32, T17S R50W, KIOWA COUNTY
2023 SOIL SAMPLE LOCATIONS

Legend

 Soil Sample Locations



Prepared By:
Ardor Environmental LLC

December 26, 2023



TABLES

Table 1: Analytical Results Summary

Table 915-1 Peck Tank Battery Results		10/25/2023					
CLEANUP CONCENTRATIONS		SP 1 0'-1'	SP 1 4'	SP2 0'-1'	SP 3 0'-1'	SP 4 0'-1'	SP 5 0'-1' (Background)
Contaminant of Concern	Concentrations	38.528729; -103.042121	38.528729; -103.042121	38.528761; -103.041349	38.528781; -103.042068	38.528893; -103.042381	38.528582; -103.042009
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	ERO 9.4 J GRO U	ERO 3.8 J GRO U	ERO 8.4 J GRO U	ERO 6.0 J GRO U
PID READING		0.0 ppm	0.1 ppm	0.2 ppm	0.1 ppm	0.1 ppm	0.2 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
Sodium adsorption ratio (SAR) (by saturated paste method)	<6	0.32	1.2	0.40	0.29	0.25	0.099
pH (by saturated paste method)	6–8.3	9.53	9.37	7.57	10.5	10.8	7.74
boron (hot water soluble soil extract)	2mg/l	0.61	0.77	0.83	0.67	0.97	0.75
Organic Compounds in Groundwater							
benzene	5µg/l	NA	NA	NA	NA	NA	NA
toluene	560 to 1,000µg/l	NA	NA	NA	NA	NA	NA
ethylbenzene	700µg/l	NA	NA	NA	NA	NA	NA
xylene (sum of o-, m- and p- isomers = total xylenes)	1,400 to 10,000µg/l	NA	NA	NA	NA	NA	NA
naphthalene	140µg/l	NA	NA	NA	NA	NA	NA
1,2,4-trimethylbenzene	67µg/l	NA	NA	NA	NA	NA	NA
1,3,5-trimethylbenzene	67µg/l	NA	NA	NA	NA	NA	NA
Groundwater Inorganic Parameters							
total dissolved solids (TDS)	<1.25 X local background	NA	NA	NA	NA	NA	NA
chloride ion	250mg/l or <1.25 X local background	NA	NA	NA	NA	NA	NA
sulfate ion	250mg/l or <1.25 X local background	NA	NA	NA	NA	NA	NA

Soils	Residential Soil Screening Level Concentrations (mg/kg)	Protection of Groundwater Soil Screening Level Concentrations (mg/kg)						
Organic Compounds in Soils								
benzene	1.2	0.0026 (M)	U	U	U	U	U	U
toluene	490	0.69 (M)	U	U	U	U	U	U
ethylbenzene	5.8	0.78 (M)	U	U	U	U	U	U
xylene (sum of o-, m- and p- isomers = total xylenes)	58	9.9 (M)	U	U	U	U	U	U
1,2,4-trimethylbenzene	30	0.0081 (R)	U	U	U	U	U	U
1,3,5-trimethylbenzene	27	0.0087 (R)	U	U	U	U	U	U
acenaphthene	360	0.55 (R)	U	U	U	U	U	U
anthracene	1800	5.8 (R)	U	U	U	U	U	U
benz(a)anthracene	1.1	0.011 (R)	U	U	U	U	U	U
benzo(b)fluoranthene	1.1	0.3 (R)	U	U	U	U	U	U
benzo(k)fluoranthene	11	2.9 (R)	U	U	U	U	U	U
benzo(a)pyrene	0.11	0.24 (M)	U	U	U	U	U	U
chrysene	110	9 (R)	U	U	U	U	U	U
dibenzo(a,h)anthracene	0.11	0.096 (R)	U	U	U	U	U	U
fluoranthene	240	8.9 (R)	U	U	U	U	U	U
fluorene	240	0.54 (R)	U	U	U	U	U	U
indeno(1,2,3-cd)pyrene	1.1	0.98 (R)	U	U	U	U	U	U
1-methylnaphthalene	18	0.006 (R)	U	U	U	U	U	U
2-methylnaphthalene	24	0.019 (R)	U	U	U	U	U	U
naphthalene	2	0.0038 (R)	U	U	U	U	U	U
pyrene	180	1.3 (R)	U	U	U	U	U	U
Metals in Soils								
arsenic	0.68	0.29 (M)	5.9	4.6	4.9	5.2	4.9	4.9
barium	15000	82 (M)	170	320	170	160	130	160
cadmium	71	0.38 (M)	0.15	0.087 J	0.12	0.13 J	0.15 J	0.14
chromium (VI)	0.3	0.00067 (R)	U	U	U	U	U	U
copper	3100	46 (M)	11	9.3	9.6	9.6	10	10
lead	400	14 (M)	12	12	13	11	11	12
nickel	1500	26 (R)	11	10	9.4	9.6	10	10
selenium	390	0.26 (M)	0.45	U	0.36	0.36 J	0.44 J	0.40
silver	390	0.8 (R)	0.054 J	U	0.046 J	U	U	0.045 J
zinc	23000	370 (R)	34	32	35	30	33	31

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 (4.9 kg/mg) = 6.125 mg/kg

PECK-617S50W
Facility ID: 324857
Remediation # 31980
MULL DRILLING COMPANY INC.



ATTACHMENT A

Laboratory Analytical Reports



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

Report of Laboratory Analysis

Certificate No: FL E871106

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

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

Work Order Sample Summary

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

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**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
**	Estimated Value
a	Analyte is non-accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
Hr	BOD/CBOD - Sample was reset outside Hold Time, value should be considered estimated.
J	Analyte is present at an estimated concentration between the MDL and Report Limit
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.

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

<u>Units Reported</u>	<u>Description</u>
% of sample	Percent of Sample
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.

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
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	
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	
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	
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.

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
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	
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	
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	
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.

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
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
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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
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MOISTURE

Method: SW3550C

Analyst: SGH

Moisture	7.3		0.10	0.10	% of sample	1	10/31/2023 13:22
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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
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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.

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
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.

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
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.

ALS Group, USA

Date: 13-Nov-23

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.

ALS Group, USA

Date: 13-Nov-23

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	
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	
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	
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.

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

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
<i>Surr: 4-Terphenyl-d14</i>	<i>0.5167</i>	<i>0</i>	<i>0.828</i>	<i>0</i>	<i>62.4</i>	<i>34-130</i>	<i>0</i>			

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			
<i>Surr: 4-Terphenyl-d14</i>	<i>0.6167</i>	<i>0</i>	<i>0.828</i>	<i>0</i>	<i>74.5</i>	<i>34-130</i>	<i>0</i>			

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
<i>Surr: 4-Terphenyl-d14</i>	<i>0.1286</i>	<i>0</i>	<i>0.7987</i>	<i>0</i>	<i>16.1</i>	<i>34-130</i>	<i>0</i>			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
<i>Surr: 4-Terphenyl-d14</i>	<i>0.09566</i>	<i>0</i>	<i>0.7921</i>	<i>0</i>	<i>12.1</i>	<i>34-130</i>	<i>0.1286</i>	<i>29.4</i>	<i>30</i>	<i>S</i>

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			
<i>Surr: Toluene-d8</i>	<i>4982</i>	<i>0</i>	<i>5000</i>	<i>0</i>	<i>99.6</i>	<i>75-120</i>	<i>0</i>			

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			
<i>Surr: Toluene-d8</i>	<i>5464</i>	<i>0</i>	<i>5000</i>	<i>0</i>	<i>109</i>	<i>75-120</i>	<i>0</i>			

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			
<i>Surr: Toluene-d8</i>	<i>5451</i>	<i>0</i>	<i>4855</i>	<i>0</i>	<i>112</i>	<i>75-120</i>	<i>0</i>			

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
<i>Surr: Toluene-d8</i>	<i>5804</i>	<i>0</i>	<i>4855</i>	<i>0</i>	<i>120</i>	<i>75-120</i>	<i>5451</i>	<i>6.28</i>	<i>30</i>	

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**

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			
<i>Surr: 2-Fluorobiphenyl</i>	<i>534.1</i>	<i>0</i>	<i>666.6</i>	<i>0</i>	<i>80.1</i>	<i>20-140</i>	<i>0</i>			
<i>Surr: 4-Terphenyl-d14</i>	<i>534.8</i>	<i>0</i>	<i>666.6</i>	<i>0</i>	<i>80.2</i>	<i>22-172</i>	<i>0</i>			
<i>Surr: Nitrobenzene-d5</i>	<i>600.6</i>	<i>0</i>	<i>666.6</i>	<i>0</i>	<i>90.1</i>	<i>28-140</i>	<i>0</i>			

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.

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

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.

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

QC BATCH REPORT

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						
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>20.58</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>103</i>	<i>80-120</i>	<i>0</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>18.14</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>90.7</i>	<i>80-120</i>	<i>0</i>	
<i>Surr: Dibromofluoromethane</i>	<i>19.96</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>99.8</i>	<i>80-120</i>	<i>0</i>	
<i>Surr: Toluene-d8</i>	<i>19.47</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>97.4</i>	<i>80-120</i>	<i>0</i>	

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.

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

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	
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>20.56</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>103</i>	<i>80-120</i>	<i>0</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>19.96</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>99.8</i>	<i>80-120</i>	<i>0</i>	
<i>Surr: Dibromofluoromethane</i>	<i>21.21</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>106</i>	<i>80-120</i>	<i>0</i>	
<i>Surr: Toluene-d8</i>	<i>19.11</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>95.6</i>	<i>80-120</i>	<i>0</i>	

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.

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

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
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>209.2</i>	<i>0</i>	<i>200</i>	<i>0</i>	<i>105</i>	<i>80-120</i>	<i>0</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>194.8</i>	<i>0</i>	<i>200</i>	<i>0</i>	<i>97.4</i>	<i>80-120</i>	<i>0</i>	
<i>Surr: Dibromofluoromethane</i>	<i>211.8</i>	<i>0</i>	<i>200</i>	<i>0</i>	<i>106</i>	<i>80-120</i>	<i>0</i>	
<i>Surr: Toluene-d8</i>	<i>196</i>	<i>0</i>	<i>200</i>	<i>0</i>	<i>98</i>	<i>80-120</i>	<i>0</i>	

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.

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

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
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>210</i>	<i>0</i>	<i>200</i>	<i>0</i>	<i>105</i>	<i>80-120</i>	<i>209.2</i>	<i>0.382</i>	<i>30</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>191.1</i>	<i>0</i>	<i>200</i>	<i>0</i>	<i>95.6</i>	<i>80-120</i>	<i>194.8</i>	<i>1.92</i>	<i>30</i>
<i>Surr: Dibromofluoromethane</i>	<i>208.3</i>	<i>0</i>	<i>200</i>	<i>0</i>	<i>104</i>	<i>80-120</i>	<i>211.8</i>	<i>1.67</i>	<i>30</i>
<i>Surr: Toluene-d8</i>	<i>196</i>	<i>0</i>	<i>200</i>	<i>0</i>	<i>98</i>	<i>80-120</i>	<i>196</i>	<i>0</i>	<i>30</i>

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

#	Sample Description	Date	Time	Matrix	Preservative	# Bottles	A	B	C	D	E	F	G	H	I	J	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: Peck Tank Battery



Notes: Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.						Required Turnaround Time: Std 10 Wk days 5 Wk days 2 Wk days 24 hr				Results Due:			
Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4 degrees C 9-5035						Relinquished by: James Beilman Date: 10/25/23 Time: 1730 Received by: Fedor Date: 10/28/23 Time: 915						NOTES: 3.40C OF2	
Fedor						10/28/23 915						QC Reporting Level: (check box below)	
												Level II: Standard QC	
												Level III: Std QC + Raw data	
												Level IV: SW846 CLP-Like	

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**

28-Oct-23

Reviewed by: **Chad Whelton**

31-Oct-23

eSignature

Date

eSignature

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: