15-Aug-2019

Mike Gardner
Terra Energy Partners, LLC
1058 Country Rd 215
Parachute, CO 81635

Re: **MV 13-33-695 Tank Release** Work Order: **19080633**

Dear Mike,

ALS Environmental received 6 samples on 09-Aug-2019 09:00 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 30.

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

ALS Group, USA

Date: 15-Aug-19

Client: Terra Energy Partners, LLC
Project: MV 13-33-695 Tank Release
Work Order: **19080633**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
19080633-01	MV 13-33 Excavation: North Wall	Soil		8/7/2019 12:00	8/9/2019 09:00	☐
19080633-02	MV 13-33 Excavation: South Wall	Soil		8/7/2019 15:30	8/9/2019 09:00	☐
19080633-03	MV 13-33 Excavation: East Wall	Soil		8/7/2019 15:45	8/9/2019 09:00	☐
19080633-04	MV 13-33 Excavation: West Wall	Soil		8/7/2019 12:30	8/9/2019 09:00	☐
19080633-05	MV 13-33 Excavation: Bottom	Soil		8/7/2019 13:00	8/9/2019 09:00	☐
19080633-06	MV 13-33 Background	Soil		8/7/2019 15:50	8/9/2019 09:00	☐

Client: Terra Energy Partners, LLC
Project: MV 13-33-695 Tank Release
Work Order: 19080633

Case Narrative

Batch 140587, Method GRO_8015_S, Sample 19080633-01A: One or more GRO surrogate recoveries were above the upper control limits. The sample was non-detect, therefore, no qualification is required.

Batch 140696, Method CR6_7196_S, Sample 19080633-01A MS/MSD: The MS/MSD recovery was below the lower control limit for Hexavalent Chromium. The corresponding result in the parent sample may be biased low.

ALS Group, USA

Date: 15-Aug-19

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

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

Units Reported	Description
% of sample	Percent of Sample
°C	Degrees Celcius
mg/Kg	Milligrams per Kilogram
mg/Kg-dry	Milligrams per Kilogram Dry Weight
mg/L	Milligrams per Liter
mmhos/cm @25°C	Millimhos-Centimeter at 25 Degrees Celcius
none	

s.u. Standard Units

ALS Group, USA

Date: *15-Aug-19*

Client: Terra Energy Partners, LLC
Project: MV 13-33-695 Tank Release
Sample ID: MV 13-33 Excavation: North Wall
Collection Date: 8/7/2019 12:00 PM

Work Order: 19080633
Lab ID: 19080633-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID		Method: **SW8015C**			Prep: SW3546 / 8/9/19		Analyst: **RM**
DRO (C10-C28)	U		3.4	5.8	mg/Kg-dry	1	8/9/2019 21:12
Surr: 4-Terphenyl-d14	*86.6*			*34-130*	*%REC*	1	8/9/2019 21:12
GASOLINE RANGE ORGANICS BY GC-FID		Method: **SW8015D**			Prep: SW5035 / 8/9/19		Analyst: **RM**
GRO (C6-C10)	U		3.1	7.3	mg/Kg	1	8/9/2019 18:10
Surr: Toluene-d8	*126*	S		*71-123*	*%REC*	1	8/9/2019 18:10
MERCURY BY CVAA		Method: **SW7471B**			Prep: SW7471 / 8/12/19		Analyst: **RSH**
Mercury	**0.021**		**0.0021**	**0.021**	**mg/Kg-dry**	1	8/12/2019 13:34
METALS BY ICP-MS		Method: **SW6020A**			Prep: SW3050B / 8/10/19		Analyst: **ABL**
Arsenic	**9.5**		**0.050**	**0.41**	**mg/Kg-dry**	1	8/11/2019 19:39
Barium	**290**		**3.8**	**4.1**	**mg/Kg-dry**	10	8/12/2019 18:50
Cadmium	**0.22**		**0.025**	**0.17**	**mg/Kg-dry**	1	8/11/2019 19:39
Chromium	**11**		**0.18**	**0.41**	**mg/Kg-dry**	1	8/11/2019 19:39
Copper	**11**		**0.41**	**0.41**	**mg/Kg-dry**	1	8/11/2019 19:39
Lead	**11**		**0.20**	**0.41**	**mg/Kg-dry**	1	8/11/2019 19:39
Nickel	**11**		**0.21**	**0.41**	**mg/Kg-dry**	1	8/11/2019 19:39
Selenium	U		0.38	0.41	mg/Kg-dry	1	8/11/2019 19:39
Silver	U		0.055	0.41	mg/Kg-dry	1	8/11/2019 19:39
Zinc	**46**		**8.1**	**8.3**	**mg/Kg-dry**	10	8/12/2019 18:50
SOLUBLE CATIONS FOR SAR		Method: **SW6020A**			Prep: USDA Method 20B / 8/13/19		Analyst: **ABL**
Calcium	**240**		**2.5**	**5.0**	**mg/L**	10	8/14/2019 12:36
Magnesium	**44**		**0.50**	**2.0**	**mg/L**	10	8/14/2019 12:36
Sodium	**15**		**0.45**	**2.0**	**mg/L**	10	8/14/2019 12:36
SODIUM ADSORPTION RATIO		Method: **USDA H60 METHOD 2**			Prep: USDA Method 20B / 8/13/19		Analyst: **ABL**
Sodium Adsorption Ratio	**0.24**		**0.010**	**0.010**	**none**	1	8/14/2019
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS)		Method: **SW846 8270D**			Prep: SW3546 / 8/9/19		Analyst: **EEW**
Acenaphthene	U		0.00095	0.0049	mg/Kg-dry	1	8/9/2019 15:18
Anthracene	U		0.0016	0.0049	mg/Kg-dry	1	8/9/2019 15:18
Benzo(a)anthracene	U		0.0020	0.0049	mg/Kg-dry	1	8/9/2019 15:18
Benzo(a)pyrene	U		0.0013	0.0049	mg/Kg-dry	1	8/9/2019 15:18
Benzo(b)fluoranthene	U		0.0012	0.0049	mg/Kg-dry	1	8/9/2019 15:18
Benzo(k)fluoranthene	U		0.0014	0.0049	mg/Kg-dry	1	8/9/2019 15:18
Chrysene	U		0.0010	0.0049	mg/Kg-dry	1	8/9/2019 15:18
Dibenzo(a,h)anthracene	U		0.0011	0.0049	mg/Kg-dry	1	8/9/2019 15:18
Fluoranthene	U		0.00090	0.0049	mg/Kg-dry	1	8/9/2019 15:18

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

Client: Terra Energy Partners, LLC
Project: MV 13-33-695 Tank Release
Sample ID: MV 13-33 Excavation: North Wall
Collection Date: 8/7/2019 12:00 PM

Work Order: 19080633
Lab ID: 19080633-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	U		0.0016	0.0049	mg/Kg-dry	1	8/9/2019 15:18
Indeno(1,2,3-cd)pyrene	U		0.0018	0.0049	mg/Kg-dry	1	8/9/2019 15:18
Naphthalene	U		0.0021	0.0049	mg/Kg-dry	1	8/9/2019 15:18
Pyrene	U		0.00081	0.0049	mg/Kg-dry	1	8/9/2019 15:18
Surr: 2-Fluorobiphenyl	*74.3*			*20-140*	*%REC*	1	8/9/2019 15:18
Surr: 4-Terphenyl-d14	*67.4*			*22-172*	*%REC*	1	8/9/2019 15:18
Surr: Nitrobenzene-d5	*84.9*			*28-140*	*%REC*	1	8/9/2019 15:18
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260C**		Prep: SW5035 / 8/9/19		Analyst: **WH**
Benzene	U		0.0052	0.031	mg/Kg-dry	1	8/12/2019 14:29
Ethylbenzene	U		0.0065	0.031	mg/Kg-dry	1	8/12/2019 14:29
m,p-Xylene	U		0.041	0.061	mg/Kg-dry	1	8/12/2019 14:29
o-Xylene	U		0.012	0.031	mg/Kg-dry	1	8/12/2019 14:29
Toluene	U		0.0084	0.031	mg/Kg-dry	1	8/12/2019 14:29
Xylenes, Total	U		0.041	0.092	mg/Kg-dry	1	8/12/2019 14:29
Surr: 1,2-Dichloroethane-d4	*107*			*70-130*	*%REC*	1	8/12/2019 14:29
Surr: 4-Bromofluorobenzene	*95.6*			*70-130*	*%REC*	1	8/12/2019 14:29
Surr: Dibromofluoromethane	*93.8*			*70-130*	*%REC*	1	8/12/2019 14:29
Surr: Toluene-d8	*100*			*70-130*	*%REC*	1	8/12/2019 14:29
ELECTRICAL CONDUCTIVITY (SAR)		Method:	**USDA H60 METHOD 2**		Prep: USDA Method 20B / 8/13/19		Analyst: **QTN**
Electrical Conductivity @ Saturation	**1.6**		**0.011**	**0.10**	**mmhos/cm @25°**	20	8/13/2019 11:23
CHROMIUM, TRIVALENT		Method:	**CALCULATION**				Analyst: **JB**
Chromium, Trivalent	**11**		**0.37**	**1.2**	**mg/Kg-dry**	1	8/12/2019 16:15
CHROMIUM, HEXAVALENT		Method:	**SW7196A**		Prep: SW3060A / 8/9/19		Analyst: **MB**
Chromium, Hexavalent	U		1.0	1.2	mg/Kg-dry	1	8/12/2019 14:30
MOISTURE		Method:	**SW3550C**				Analyst: **MMO**
Moisture	**18**		**0.10**	**0.10**	**% of sample**	1	8/9/2019 16:39
PH		Method:	**SW9045D**		Prep: EXTRACT / 8/9/19		Analyst: **DNW**
pH	**8.60**		**0.10**	**0.100**	**s.u.**	1	8/9/2019 15:00
Temperature	**21.9**		**0.10**	**0.100**	**°C**	1	8/9/2019 15:00

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

ALS Group, USA

Date: *15-Aug-19*

Client: Terra Energy Partners, LLC
Project: MV 13-33-695 Tank Release
Sample ID: MV 13-33 Excavation: South Wall
Collection Date: 8/7/2019 03:30 PM

Work Order: 19080633
Lab ID: 19080633-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID		Method: **SW8015C**			Prep: SW3546 / 8/9/19		Analyst: **RM**
DRO (C10-C28)	U		3.5	6.0	mg/Kg-dry	1	8/9/2019 21:41
Surr: 4-Terphenyl-d14	*94.1*			*34-130*	*%REC*	1	8/9/2019 21:41
GASOLINE RANGE ORGANICS BY GC-FID		Method: **SW8015D**			Prep: SW5035 / 8/9/19		Analyst: **RM**
GRO (C6-C10)	U		3.0	7.1	mg/Kg	1	8/9/2019 19:09
Surr: Toluene-d8	*94.9*			*71-123*	*%REC*	1	8/9/2019 19:09
MERCURY BY CVAA		Method: **SW7471B**			Prep: SW7471 / 8/12/19		Analyst: **RSH**
Mercury	**0.037**		**0.0022**	**0.022**	**mg/Kg-dry**	1	8/12/2019 13:40
METALS BY ICP-MS		Method: **SW6020A**			Prep: SW3050B / 8/10/19		Analyst: **ABL**
Arsenic	**12**		**0.061**	**0.51**	**mg/Kg-dry**	1	8/11/2019 19:44
Barium	**300**		**4.7**	**5.1**	**mg/Kg-dry**	10	8/12/2019 18:51
Cadmium	**0.31**		**0.031**	**0.20**	**mg/Kg-dry**	1	8/11/2019 19:44
Chromium	**11**		**0.23**	**0.51**	**mg/Kg-dry**	1	8/11/2019 19:44
Copper	**13**		**0.51**	**0.51**	**mg/Kg-dry**	1	8/11/2019 19:44
Lead	**12**		**0.25**	**0.51**	**mg/Kg-dry**	1	8/11/2019 19:44
Nickel	**13**		**0.27**	**0.51**	**mg/Kg-dry**	1	8/11/2019 19:44
Selenium	U		0.47	0.51	mg/Kg-dry	1	8/11/2019 19:44
Silver	U		0.068	0.51	mg/Kg-dry	1	8/11/2019 19:44
Zinc	**53**		**10**	**10**	**mg/Kg-dry**	10	8/12/2019 18:51
SOLUBLE CATIONS FOR SAR		Method: **SW6020A**			Prep: USDA Method 20B / 8/13/19		Analyst: **ABL**
Calcium	**750**		**2.5**	**5.0**	**mg/L**	10	8/14/2019 12:37
Magnesium	**120**		**0.50**	**2.0**	**mg/L**	10	8/14/2019 12:37
Sodium	**66**		**0.45**	**2.0**	**mg/L**	10	8/14/2019 12:37
SODIUM ADSORPTION RATIO		Method: **USDA H60 METHOD 2**			Prep: USDA Method 20B / 8/13/19		Analyst: **ABL**
Sodium Adsorption Ratio	**0.59**		**0.010**	**0.010**	**none**	1	8/14/2019
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS)		Method: **SW846 8270D**			Prep: SW3546 / 8/9/19		Analyst: **EEW**
Acenaphthene	U		0.00097	0.0050	mg/Kg-dry	1	8/9/2019 15:34
Anthracene	U		0.0017	0.0050	mg/Kg-dry	1	8/9/2019 15:34
Benzo(a)anthracene	U		0.0021	0.0050	mg/Kg-dry	1	8/9/2019 15:34
Benzo(a)pyrene	U		0.0014	0.0050	mg/Kg-dry	1	8/9/2019 15:34
Benzo(b)fluoranthene	U		0.0012	0.0050	mg/Kg-dry	1	8/9/2019 15:34
Benzo(k)fluoranthene	U		0.0015	0.0050	mg/Kg-dry	1	8/9/2019 15:34
Chrysene	U		0.0010	0.0050	mg/Kg-dry	1	8/9/2019 15:34
Dibenzo(a,h)anthracene	U		0.0012	0.0050	mg/Kg-dry	1	8/9/2019 15:34
Fluoranthene	U		0.00092	0.0050	mg/Kg-dry	1	8/9/2019 15:34

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

Client: Terra Energy Partners, LLC
Project: MV 13-33-695 Tank Release
Sample ID: MV 13-33 Excavation: South Wall
Collection Date: 8/7/2019 03:30 PM

Work Order: 19080633
Lab ID: 19080633-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	U		0.0017	0.0050	mg/Kg-dry	1	8/9/2019 15:34
Indeno(1,2,3-cd)pyrene	U		0.0018	0.0050	mg/Kg-dry	1	8/9/2019 15:34
Naphthalene	U		0.0022	0.0050	mg/Kg-dry	1	8/9/2019 15:34
Pyrene	U		0.00083	0.0050	mg/Kg-dry	1	8/9/2019 15:34
Surr: 2-Fluorobiphenyl	*82.5*			*20-140*	*%REC*	1	8/9/2019 15:34
Surr: 4-Terphenyl-d14	*77.3*			*22-172*	*%REC*	1	8/9/2019 15:34
Surr: Nitrobenzene-d5	*92.6*			*28-140*	*%REC*	1	8/9/2019 15:34
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260C**		Prep: SW5035 / 8/9/19		Analyst: **WH**
Benzene	U		0.0049	0.029	mg/Kg-dry	1	8/12/2019 14:47
Ethylbenzene	U		0.0060	0.029	mg/Kg-dry	1	8/12/2019 14:47
m,p-Xylene	U		0.038	0.057	mg/Kg-dry	1	8/12/2019 14:47
o-Xylene	U		0.011	0.029	mg/Kg-dry	1	8/12/2019 14:47
Toluene	U		0.0078	0.029	mg/Kg-dry	1	8/12/2019 14:47
Xylenes, Total	U		0.038	0.086	mg/Kg-dry	1	8/12/2019 14:47
Surr: 1,2-Dichloroethane-d4	*106*			*70-130*	*%REC*	1	8/12/2019 14:47
Surr: 4-Bromofluorobenzene	*94.4*			*70-130*	*%REC*	1	8/12/2019 14:47
Surr: Dibromofluoromethane	*91.1*			*70-130*	*%REC*	1	8/12/2019 14:47
Surr: Toluene-d8	*98.7*			*70-130*	*%REC*	1	8/12/2019 14:47
ELECTRICAL CONDUCTIVITY (SAR)		Method:	**USDA H60 METHOD 2**		Prep: USDA Method 20B / 8/13/19		Analyst: **QTN**
Electrical Conductivity @ Saturation	**5.6**		**0.011**	**0.10**	**mmhos/cm @25°**	20	8/13/2019 11:23
CHROMIUM, TRIVALENT		Method:	**CALCULATION**				Analyst: **JB**
Chromium, Trivalent	**11**		**0.38**	**1.2**	**mg/Kg-dry**	1	8/12/2019 16:15
CHROMIUM, HEXAVALENT		Method:	**SW7196A**		Prep: SW3060A / 8/9/19		Analyst: **MB**
Chromium, Hexavalent	U		1.0	1.2	mg/Kg-dry	1	8/12/2019 14:30
MOISTURE		Method:	**SW3550C**				Analyst: **MMO**
Moisture	**19**		**0.10**	**0.10**	**% of sample**	1	8/9/2019 16:39
PH		Method:	**SW9045D**		Prep: EXTRACT / 8/9/19		Analyst: **DNW**
pH	**8.11**		**0.10**	**0.100**	**s.u.**	1	8/9/2019 15:00
Temperature	**22.2**		**0.10**	**0.100**	**°C**	1	8/9/2019 15:00

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

ALS Group, USA

Date: *15-Aug-19*

Client: Terra Energy Partners, LLC
Project: MV 13-33-695 Tank Release
Sample ID: MV 13-33 Excavation: West Wall
Collection Date: 8/7/2019 12:30 PM

Work Order: 19080633
Lab ID: 19080633-04
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID		Method: **SW8015C**			Prep: SW3546 / 8/9/19		Analyst: **RM**
DRO (C10-C28)	U		3.3	5.7	mg/Kg-dry	1	8/9/2019 22:10
Surr: 4-Terphenyl-d14	*45.0*			*34-130*	*%REC*	1	8/9/2019 22:10
GASOLINE RANGE ORGANICS BY GC-FID		Method: **SW8015D**			Prep: SW5035 / 8/9/19		Analyst: **RM**
GRO (C6-C10)	U		2.8	6.8	mg/Kg	1	8/9/2019 19:38
Surr: Toluene-d8	*87.7*			*71-123*	*%REC*	1	8/9/2019 19:38
MERCURY BY CVAA		Method: **SW7471B**			Prep: SW7471 / 8/12/19		Analyst: **RSH**
Mercury	**0.070**		**0.0020**	**0.020**	**mg/Kg-dry**	1	8/12/2019 13:43
METALS BY ICP-MS		Method: **SW6020A**			Prep: SW3050B / 8/10/19		Analyst: **ABL**
Arsenic	**11**		**0.051**	**0.43**	**mg/Kg-dry**	1	8/11/2019 19:46
Barium	**410**		**3.9**	**4.3**	**mg/Kg-dry**	10	8/12/2019 18:53
Cadmium	**0.36**		**0.026**	**0.17**	**mg/Kg-dry**	1	8/11/2019 19:46
Chromium	**12**		**0.19**	**0.43**	**mg/Kg-dry**	1	8/11/2019 19:46
Copper	**14**		**0.43**	**0.43**	**mg/Kg-dry**	1	8/11/2019 19:46
Lead	**14**		**0.21**	**0.43**	**mg/Kg-dry**	1	8/11/2019 19:46
Nickel	**15**		**0.22**	**0.43**	**mg/Kg-dry**	1	8/11/2019 19:46
Selenium	U		0.39	0.43	mg/Kg-dry	1	8/11/2019 19:46
Silver	U		0.056	0.43	mg/Kg-dry	1	8/11/2019 19:46
Zinc	**61**		**8.4**	**8.6**	**mg/Kg-dry**	10	8/12/2019 18:53
SOLUBLE CATIONS FOR SAR		Method: **SW6020A**			Prep: USDA Method 20B / 8/13/19		Analyst: **ABL**
Calcium	**120**		**2.5**	**5.0**	**mg/L**	10	8/14/2019 12:39
Magnesium	**52**		**0.50**	**2.0**	**mg/L**	10	8/14/2019 12:39
Sodium	**390**		**0.45**	**2.0**	**mg/L**	10	8/14/2019 12:39
SODIUM ADSORPTION RATIO		Method: **USDA H60 METHOD 2**			Prep: USDA Method 20B / 8/13/19		Analyst: **ABL**
Sodium Adsorption Ratio	**7.5**		**0.010**	**0.010**	**none**	1	8/14/2019
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS)		Method: **SW846 8270D**			Prep: SW3546 / 8/9/19		Analyst: **EEW**
Acenaphthene	U		0.00092	0.0048	mg/Kg-dry	1	8/9/2019 15:49
Anthracene	U		0.0016	0.0048	mg/Kg-dry	1	8/9/2019 15:49
Benzo(a)anthracene	U		0.0020	0.0048	mg/Kg-dry	1	8/9/2019 15:49
Benzo(a)pyrene	U		0.0013	0.0048	mg/Kg-dry	1	8/9/2019 15:49
Benzo(b)fluoranthene	U		0.0011	0.0048	mg/Kg-dry	1	8/9/2019 15:49
Benzo(k)fluoranthene	U		0.0014	0.0048	mg/Kg-dry	1	8/9/2019 15:49
Chrysene	U		0.00098	0.0048	mg/Kg-dry	1	8/9/2019 15:49
Dibenzo(a,h)anthracene	U		0.0011	0.0048	mg/Kg-dry	1	8/9/2019 15:49
Fluoranthene	U		0.00088	0.0048	mg/Kg-dry	1	8/9/2019 15:49

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

Client: Terra Energy Partners, LLC
Project: MV 13-33-695 Tank Release
Sample ID: MV 13-33 Excavation: West Wall
Collection Date: 8/7/2019 12:30 PM

Work Order: 19080633
Lab ID: 19080633-04
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	U		0.0016	0.0048	mg/Kg-dry	1	8/9/2019 15:49
Indeno(1,2,3-cd)pyrene	U		0.0017	0.0048	mg/Kg-dry	1	8/9/2019 15:49
Naphthalene	U		0.0021	0.0048	mg/Kg-dry	1	8/9/2019 15:49
Pyrene	U		0.00079	0.0048	mg/Kg-dry	1	8/9/2019 15:49
Surr: 2-Fluorobiphenyl	*42.5*			*20-140*	*%REC*	1	8/9/2019 15:49
Surr: 4-Terphenyl-d14	*35.5*			*22-172*	*%REC*	1	8/9/2019 15:49
Surr: Nitrobenzene-d5	*47.3*			*28-140*	*%REC*	1	8/9/2019 15:49
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260C**		Prep: SW5035 / 8/9/19		Analyst: **WH**
Benzene	U		0.0054	0.032	mg/Kg-dry	1	8/12/2019 15:04
Ethylbenzene	U		0.0066	0.032	mg/Kg-dry	1	8/12/2019 15:04
m,p-Xylene	U		0.042	0.063	mg/Kg-dry	1	8/12/2019 15:04
o-Xylene	U		0.012	0.032	mg/Kg-dry	1	8/12/2019 15:04
Toluene	**0.016**	J	**0.0086**	**0.032**	**mg/Kg-dry**	1	8/12/2019 15:04
Xylenes, Total	U		0.042	0.095	mg/Kg-dry	1	8/12/2019 15:04
Surr: 1,2-Dichloroethane-d4	*106*			*70-130*	*%REC*	1	8/12/2019 15:04
Surr: 4-Bromofluorobenzene	*98.8*			*70-130*	*%REC*	1	8/12/2019 15:04
Surr: Dibromofluoromethane	*88.2*			*70-130*	*%REC*	1	8/12/2019 15:04
Surr: Toluene-d8	*100*			*70-130*	*%REC*	1	8/12/2019 15:04
ELECTRICAL CONDUCTIVITY (SAR)		Method:	**USDA H60 METHOD 2**		Prep: USDA Method 20B / 8/13/19		Analyst: **QTN**
Electrical Conductivity @ Saturation	**3.2**		**0.011**	**0.10**	**mmhos/cm @25°**	20	8/13/2019 11:23
CHROMIUM, TRIVALENT		Method:	**CALCULATION**				Analyst: **JB**
Chromium, Trivalent	**12**		**0.35**	**1.1**	**mg/Kg-dry**	1	8/12/2019 16:15
CHROMIUM, HEXAVALENT		Method:	**SW7196A**		Prep: SW3060A / 8/9/19		Analyst: **MB**
Chromium, Hexavalent	U		0.97	1.1	mg/Kg-dry	1	8/12/2019 14:30
MOISTURE		Method:	**SW3550C**				Analyst: **MMO**
Moisture	**13**		**0.10**	**0.10**	**% of sample**	1	8/9/2019 16:39
PH		Method:	**SW9045D**		Prep: EXTRACT / 8/9/19		Analyst: **DNW**
pH	**8.75**		**0.10**	**0.100**	**s.u.**	1	8/9/2019 15:00
Temperature	**21.9**		**0.10**	**0.100**	**°C**	1	8/9/2019 15:00

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

ALS Group, USA

Date: *15-Aug-19*

Client: Terra Energy Partners, LLC
Project: MV 13-33-695 Tank Release
Sample ID: MV 13-33 Excavation: Bottom
Collection Date: 8/7/2019 01:00 PM

Work Order: 19080633
Lab ID: 19080633-05
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID		Method: **SW8015C**			Prep: SW3546 / 8/9/19		Analyst: **RM**
DRO (C10-C28)	U		3.3	5.8	mg/Kg-dry	1	8/9/2019 22:40
Surr: 4-Terphenyl-d14	*87.1*			*34-130*	*%REC*	1	8/9/2019 22:40
GASOLINE RANGE ORGANICS BY GC-FID		Method: **SW8015D**			Prep: SW5035 / 8/9/19		Analyst: **RM**
GRO (C6-C10)	U		2.8	6.7	mg/Kg	1	8/9/2019 20:08
Surr: Toluene-d8	*91.5*			*71-123*	*%REC*	1	8/9/2019 20:08
MERCURY BY CVAA		Method: **SW7471B**			Prep: SW7471 / 8/12/19		Analyst: **RSH**
Mercury	**0.037**		**0.0022**	**0.022**	**mg/Kg-dry**	1	8/12/2019 13:45
METALS BY ICP-MS		Method: **SW6020A**			Prep: SW3050B / 8/10/19		Analyst: **ABL**
Arsenic	**9.2**		**0.049**	**0.41**	**mg/Kg-dry**	1	8/11/2019 19:48
Barium	**180**		**3.7**	**4.1**	**mg/Kg-dry**	10	8/12/2019 18:55
Cadmium	**0.35**		**0.024**	**0.16**	**mg/Kg-dry**	1	8/11/2019 19:48
Chromium	**9.3**		**0.18**	**0.41**	**mg/Kg-dry**	1	8/11/2019 19:48
Copper	**13**		**0.41**	**0.41**	**mg/Kg-dry**	1	8/11/2019 19:48
Lead	**12**		**0.20**	**0.41**	**mg/Kg-dry**	1	8/11/2019 19:48
Nickel	**14**		**0.21**	**0.41**	**mg/Kg-dry**	1	8/11/2019 19:48
Selenium	U		0.37	0.41	mg/Kg-dry	1	8/11/2019 19:48
Silver	U		0.054	0.41	mg/Kg-dry	1	8/11/2019 19:48
Zinc	**59**		**8.0**	**8.1**	**mg/Kg-dry**	10	8/12/2019 18:55
SOLUBLE CATIONS FOR SAR		Method: **SW6020A**			Prep: USDA Method 20B / 8/13/19		Analyst: **ABL**
Calcium	**130**		**2.5**	**5.0**	**mg/L**	10	8/14/2019 12:40
Magnesium	**54**		**0.50**	**2.0**	**mg/L**	10	8/14/2019 12:40
Sodium	**53**		**0.45**	**2.0**	**mg/L**	10	8/14/2019 12:40
SODIUM ADSORPTION RATIO		Method: **USDA H60 METHOD 2**			Prep: USDA Method 20B / 8/13/19		Analyst: **ABL**
Sodium Adsorption Ratio	**0.97**		**0.010**	**0.010**	**none**	1	8/14/2019
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS)		Method: **SW846 8270D**			Prep: SW3546 / 8/9/19		Analyst: **EEW**
Acenaphthene	U		0.00094	0.0048	mg/Kg-dry	1	8/9/2019 16:05
Anthracene	U		0.0016	0.0048	mg/Kg-dry	1	8/9/2019 16:05
Benzo(a)anthracene	U		0.0020	0.0048	mg/Kg-dry	1	8/9/2019 16:05
Benzo(a)pyrene	U		0.0013	0.0048	mg/Kg-dry	1	8/9/2019 16:05
Benzo(b)fluoranthene	U		0.0012	0.0048	mg/Kg-dry	1	8/9/2019 16:05
Benzo(k)fluoranthene	U		0.0014	0.0048	mg/Kg-dry	1	8/9/2019 16:05
Chrysene	U		0.0010	0.0048	mg/Kg-dry	1	8/9/2019 16:05
Dibenzo(a,h)anthracene	U		0.0011	0.0048	mg/Kg-dry	1	8/9/2019 16:05
Fluoranthene	U		0.00090	0.0048	mg/Kg-dry	1	8/9/2019 16:05

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

ALS Group, USA

Date: *15-Aug-19*

Client: Terra Energy Partners, LLC
Project: MV 13-33-695 Tank Release
Sample ID: MV 13-33 Excavation: Bottom
Collection Date: 8/7/2019 01:00 PM

Work Order: 19080633
Lab ID: 19080633-05
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	U		0.0016	0.0048	mg/Kg-dry	1	8/9/2019 16:05
Indeno(1,2,3-cd)pyrene	U		0.0017	0.0048	mg/Kg-dry	1	8/9/2019 16:05
Naphthalene	U		0.0021	0.0048	mg/Kg-dry	1	8/9/2019 16:05
Pyrene	U		0.00080	0.0048	mg/Kg-dry	1	8/9/2019 16:05
Surr: 2-Fluorobiphenyl	*78.4*			*20-140*	*%REC*	1	8/9/2019 16:05
Surr: 4-Terphenyl-d14	*73.3*			*22-172*	*%REC*	1	8/9/2019 16:05
Surr: Nitrobenzene-d5	*89.4*			*28-140*	*%REC*	1	8/9/2019 16:05
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260C**		Prep: SW5035 / 8/9/19		Analyst: **WH**
Benzene	U		0.0052	0.030	mg/Kg-dry	1	8/12/2019 15:22
Ethylbenzene	U		0.0064	0.030	mg/Kg-dry	1	8/12/2019 15:22
m,p-Xylene	U		0.040	0.061	mg/Kg-dry	1	8/12/2019 15:22
o-Xylene	U		0.012	0.030	mg/Kg-dry	1	8/12/2019 15:22
Toluene	**0.034**		**0.0083**	**0.030**	**mg/Kg-dry**	1	8/12/2019 15:22
Xylenes, Total	U		0.040	0.091	mg/Kg-dry	1	8/12/2019 15:22
Surr: 1,2-Dichloroethane-d4	*106*			*70-130*	*%REC*	1	8/12/2019 15:22
Surr: 4-Bromofluorobenzene	*97.2*			*70-130*	*%REC*	1	8/12/2019 15:22
Surr: Dibromofluoromethane	*87.6*			*70-130*	*%REC*	1	8/12/2019 15:22
Surr: Toluene-d8	*100*			*70-130*	*%REC*	1	8/12/2019 15:22
ELECTRICAL CONDUCTIVITY (SAR)		Method:	**USDA H60 METHOD 2**		Prep: USDA Method 20B / 8/13/19		Analyst: **QTN**
Electrical Conductivity @ Saturation	**1.8**		**0.011**	**0.10**	**mmhos/cm @25°**	20	8/13/2019 11:23
CHROMIUM, TRIVALENT		Method:	**CALCULATION**				Analyst: **JB**
Chromium, Trivalent	**9.3**		**0.36**	**1.2**	**mg/Kg-dry**	1	8/12/2019 16:15
CHROMIUM, HEXAVALENT		Method:	**SW7196A**		Prep: SW3060A / 8/9/19		Analyst: **MB**
Chromium, Hexavalent	U		0.98	1.2	mg/Kg-dry	1	8/12/2019 14:30
MOISTURE		Method:	**SW3550C**				Analyst: **MMO**
Moisture	**14**		**0.10**	**0.10**	**% of sample**	1	8/9/2019 16:39
PH		Method:	**SW9045D**		Prep: EXTRACT / 8/9/19		Analyst: **DNW**
pH	**8.24**		**0.10**	**0.100**	**s.u.**	1	8/9/2019 15:00
Temperature	**21.7**		**0.10**	**0.100**	**°C**	1	8/9/2019 15:00

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

ALS Group, USA

Date: *15-Aug-19*

Client: Terra Energy Partners, LLC
Project: MV 13-33-695 Tank Release
Sample ID: MV 13-33 Background
Collection Date: 8/7/2019 03:50 PM

Work Order: 19080633
Lab ID: 19080633-06
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID		Method: **SW8015C**			Prep: SW3546 / 8/9/19		Analyst: **RM**
DRO (C10-C28)	U		3.2	5.6	mg/Kg-dry	1	8/9/2019 23:09
Surr: 4-Terphenyl-d14	*96.1*			*34-130*	*%REC*	1	8/9/2019 23:09
GASOLINE RANGE ORGANICS BY GC-FID		Method: **SW8015D**			Prep: SW5035 / 8/9/19		Analyst: **RM**
GRO (C6-C10)	U		2.8	6.7	mg/Kg	1	8/9/2019 20:38
Surr: Toluene-d8	*86.6*			*71-123*	*%REC*	1	8/9/2019 20:38
MERCURY BY CVAA		Method: **SW7471B**			Prep: SW7471 / 8/12/19		Analyst: **RSH**
Mercury	**0.013**	J	**0.0020**	**0.020**	**mg/Kg-dry**	1	8/12/2019 12:18
METALS BY ICP-MS		Method: **SW6020A**			Prep: SW3050B / 8/10/19		Analyst: **ABL**
Arsenic	**7.3**		**0.053**	**0.44**	**mg/Kg-dry**	1	8/11/2019 19:50
Barium	**330**		**4.1**	**4.4**	**mg/Kg-dry**	10	8/12/2019 18:56
Cadmium	**0.14**	J	**0.026**	**0.18**	**mg/Kg-dry**	1	8/11/2019 19:50
Chromium	**12**		**0.19**	**0.44**	**mg/Kg-dry**	1	8/11/2019 19:50
Copper	**9.9**		**0.44**	**0.44**	**mg/Kg-dry**	1	8/11/2019 19:50
Lead	**12**		**0.21**	**0.44**	**mg/Kg-dry**	1	8/11/2019 19:50
Nickel	**11**		**0.23**	**0.44**	**mg/Kg-dry**	1	8/11/2019 19:50
Selenium	**0.51**		**0.41**	**0.44**	**mg/Kg-dry**	1	8/11/2019 19:50
Silver	U		0.058	0.44	mg/Kg-dry	1	8/11/2019 19:50
Zinc	**45**		**8.6**	**8.8**	**mg/Kg-dry**	10	8/12/2019 18:56
SOLUBLE CATIONS FOR SAR		Method: **SW6020A**			Prep: USDA Method 20B / 8/13/19		Analyst: **ABL**
Calcium	**81**		**2.5**	**5.0**	**mg/L**	10	8/14/2019 12:42
Magnesium	**26**		**0.50**	**2.0**	**mg/L**	10	8/14/2019 12:42
Sodium	**12**		**0.45**	**2.0**	**mg/L**	10	8/14/2019 12:42
SODIUM ADSORPTION RATIO		Method: **USDA H60 METHOD 2**			Prep: USDA Method 20B / 8/13/19		Analyst: **ABL**
Sodium Adsorption Ratio	**0.30**		**0.010**	**0.010**	**none**	1	8/14/2019
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS)		Method: **SW846 8270D**			Prep: SW3546 / 8/9/19		Analyst: **EEW**
Acenaphthene	U		0.00091	0.0047	mg/Kg-dry	1	8/9/2019 16:20
Anthracene	U		0.0016	0.0047	mg/Kg-dry	1	8/9/2019 16:20
Benzo(a)anthracene	U		0.0019	0.0047	mg/Kg-dry	1	8/9/2019 16:20
Benzo(a)pyrene	U		0.0013	0.0047	mg/Kg-dry	1	8/9/2019 16:20
Benzo(b)fluoranthene	U		0.0011	0.0047	mg/Kg-dry	1	8/9/2019 16:20
Benzo(k)fluoranthene	U		0.0014	0.0047	mg/Kg-dry	1	8/9/2019 16:20
Chrysene	U		0.00097	0.0047	mg/Kg-dry	1	8/9/2019 16:20
Dibenzo(a,h)anthracene	U		0.0011	0.0047	mg/Kg-dry	1	8/9/2019 16:20
Fluoranthene	U		0.00086	0.0047	mg/Kg-dry	1	8/9/2019 16:20

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

ALS Group, USA

Date: *15-Aug-19*

Client: Terra Energy Partners, LLC
Project: MV 13-33-695 Tank Release
Sample ID: MV 13-33 Background
Collection Date: 8/7/2019 03:50 PM

Work Order: 19080633
Lab ID: 19080633-06
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	U		0.0015	0.0047	mg/Kg-dry	1	8/9/2019 16:20
Indeno(1,2,3-cd)pyrene	U		0.0017	0.0047	mg/Kg-dry	1	8/9/2019 16:20
Naphthalene	U		0.0020	0.0047	mg/Kg-dry	1	8/9/2019 16:20
Pyrene	U		0.00077	0.0047	mg/Kg-dry	1	8/9/2019 16:20
Surr: 2-Fluorobiphenyl	*78.9*			*20-140*	*%REC*	1	8/9/2019 16:20
Surr: 4-Terphenyl-d14	*79.4*			*22-172*	*%REC*	1	8/9/2019 16:20
Surr: Nitrobenzene-d5	*83.4*			*28-140*	*%REC*	1	8/9/2019 16:20
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260C**		Prep: SW5035 / 8/9/19		Analyst: **WH**
Benzene	U		0.0055	0.032	mg/Kg-dry	1	8/12/2019 14:53
Ethylbenzene	U		0.0068	0.032	mg/Kg-dry	1	8/12/2019 14:53
m,p-Xylene	U		0.043	0.065	mg/Kg-dry	1	8/12/2019 14:53
o-Xylene	U		0.012	0.032	mg/Kg-dry	1	8/12/2019 14:53
Toluene	U		0.0088	0.032	mg/Kg-dry	1	8/12/2019 14:53
Xylenes, Total	U		0.043	0.097	mg/Kg-dry	1	8/12/2019 14:53
Surr: 1,2-Dichloroethane-d4	*96.0*			*70-130*	*%REC*	1	8/12/2019 14:53
Surr: 4-Bromofluorobenzene	*97.2*			*70-130*	*%REC*	1	8/12/2019 14:53
Surr: Dibromofluoromethane	*87.0*			*70-130*	*%REC*	1	8/12/2019 14:53
Surr: Toluene-d8	*101*			*70-130*	*%REC*	1	8/12/2019 14:53
ELECTRICAL CONDUCTIVITY (SAR)		Method:	**USDA H60 METHOD 2**		Prep: USDA Method 20B / 8/13/19		Analyst: **QTN**
Electrical Conductivity @ Saturation	**0.85**		**0.011**	**0.10**	**mmhos/cm @25°**	20	8/13/2019 11:23
CHROMIUM, TRIVALENT		Method:	**CALCULATION**				Analyst: **JB**
Chromium, Trivalent	**12**		**0.35**	**1.1**	**mg/Kg-dry**	1	8/12/2019 16:15
CHROMIUM, HEXAVALENT		Method:	**SW7196A**		Prep: SW3060A / 8/9/19		Analyst: **MB**
Chromium, Hexavalent	U		0.96	1.1	mg/Kg-dry	1	8/12/2019 14:30
MOISTURE		Method:	**SW3550C**				Analyst: **MMO**
Moisture	**11**		**0.10**	**0.10**	**% of sample**	1	8/9/2019 16:39
PH		Method:	**SW9045D**		Prep: EXTRACT / 8/9/19		Analyst: **DNW**
pH	**8.95**		**0.10**	**0.100**	**s.u.**	1	8/9/2019 15:00
Temperature	**21.7**		**0.10**	**0.100**	**°C**	1	8/9/2019 15:00

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

ALS Group, USA

Date: 15-Aug-19

Client: Terra Energy Partners, LLC

Work Order: 19080633

Project: MV 13-33-695 Tank Release

QC BATCH REPORT

Batch ID: **140555** Instrument ID **GC8** Method: **SW8015C**

MBLK Sample ID: **DBLKS1-140555-140555** Units: **mg/Kg** Analysis Date: **8/9/2019 03:51 PM**

Client ID: Run ID: **GC8_190809A** SeqNo: **5839071** Prep Date: **8/9/2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	U	5.0								
Surr: 4-Terphenyl-d14	*3.483*	0	*3.33*	0	*105*	*34-130*	0			

LCS Sample ID: **DLCSS1-140555-140555** Units: **mg/Kg** Analysis Date: **8/9/2019 04:20 PM**

Client ID: Run ID: **GC8_190809A** SeqNo: **5839072** Prep Date: **8/9/2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	381	5.0	333	0	114	65-122	0			
Surr: 4-Terphenyl-d14	*3.333*	0	*3.33*	0	*100*	*34-130*	0			

MS Sample ID: **19080597-01A MS** Units: **mg/Kg** Analysis Date: **8/9/2019 04:49 PM**

Client ID: Run ID: **GC8_190809A** SeqNo: **5839073** Prep Date: **8/9/2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	364.1	4.9	325.6	0	112	65-122	0			
Surr: 4-Terphenyl-d14	*2.966*	0	*3.256*	0	*91.1*	*34-130*	0			

MSD Sample ID: **19080597-01A MSD** Units: **mg/Kg** Analysis Date: **8/9/2019 05:19 PM**

Client ID: Run ID: **GC8_190809A** SeqNo: **5839074** Prep Date: **8/9/2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	291.4	4.8	321	0	90.8	65-122	364.1	22.2	30	
Surr: 4-Terphenyl-d14	*2.474*	0	*3.21*	0	*77.1*	*34-130*	2.966	*18.1*	*30*	

The following samples were analyzed in this batch:

19080633-01A	19080633-02A	19080633-04A
19080633-05A	19080633-06A	

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

Client: Terra Energy Partners, LLC
Work Order: 19080633
Project: MV 13-33-695 Tank Release

QC BATCH REPORT

Batch ID: **140587** Instrument ID **GC9** Method: **SW8015D**

MBLK Sample ID: **DBLKS1-140587-140587** Units: **µg/Kg-dry** Analysis Date: **8/9/2019 06:39 PM**
Client ID: Run ID: **GC9_190809A** SeqNo: **5838951** Prep Date: **8/9/2019** 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								
Surr: Toluene-d8	*6367*	0	*5000*	0	*127*	*71-123*	0			*S*

LCS Sample ID: **DLCSS1-140587-140587** Units: **µg/Kg-dry** Analysis Date: **8/9/2019 04:41 PM**
Client ID: Run ID: **GC9_190809A** SeqNo: **5838947** Prep Date: **8/9/2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	547800	5,000	500000	0	110	71-123	0			
Surr: Toluene-d8	*4820*	0	*5000*	0	*96.4*	*71-123*	0			

MS Sample ID: **19080633-01A MS** Units: **µg/Kg-dry** Analysis Date: **8/9/2019 05:11 PM**
Client ID: **MV 13-33 Excavation: North Wall** Run ID: **GC9_190809A** SeqNo: **5838948** Prep Date: **8/9/2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	1650000	7,700	1536000	0	107	71-123	0			
Surr: Toluene-d8	*8577*	0	*7682*	0	*112*	*71-123*	0			

MSD Sample ID: **19080633-01A MSD** Units: **µg/Kg-dry** Analysis Date: **8/9/2019 05:40 PM**
Client ID: **MV 13-33 Excavation: North Wall** Run ID: **GC9_190809A** SeqNo: **5838949** Prep Date: **8/9/2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	1600000	7,700	1532000	0	104	71-123	1650000	3.08	30	
Surr: Toluene-d8	*8954*	0	*7661*	0	*117*	*71-123*	8577	*4.3*	*30*	

The following samples were analyzed in this batch:

19080633-01A	19080633-02A	19080633-04A
19080633-05A	19080633-06A	

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

Client: Terra Energy Partners, LLC
Work Order: 19080633
Project: MV 13-33-695 Tank Release

QC BATCH REPORT

Batch ID: **140646** Instrument ID **HG4** Method: **SW7471B**

MBLK Sample ID: **MBLK-140646-140646** Units: **mg/Kg** Analysis Date: **8/12/2019 01:29 PM**
Client ID: Run ID: **HG4_190812A** SeqNo: **5838675** Prep Date: **8/12/2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	U	0.020								

LCS Sample ID: **LCS-140646-140646** Units: **mg/Kg** Analysis Date: **8/12/2019 01:32 PM**
Client ID: Run ID: **HG4_190812A** SeqNo: **5838676** Prep Date: **8/12/2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1942	0.020	0.1665	0	117	80-120	0			

MS Sample ID: **19080633-01AMS** Units: **mg/Kg** Analysis Date: **8/12/2019 01:36 PM**
Client ID: **MV 13-33 Excavation: North Wall** Run ID: **HG4_190812A** SeqNo: **5838678** Prep Date: **8/12/2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1735	0.018	0.1469	0.01735	106	75-125	0			

MSD Sample ID: **19080633-01AMSD** Units: **mg/Kg** Analysis Date: **8/12/2019 01:38 PM**
Client ID: **MV 13-33 Excavation: North Wall** Run ID: **HG4_190812A** SeqNo: **5838679** Prep Date: **8/12/2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1748	0.018	0.1458	0.01735	108	75-125	0.1735	0.782	35	

The following samples were analyzed in this batch:

19080633-01A	19080633-02A	19080633-04A
19080633-05A	19080633-06A	

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

Client: Terra Energy Partners, LLC
Work Order: 19080633
Project: MV 13-33-695 Tank Release

QC BATCH REPORT

Batch ID: **140618** Instrument ID **ICPMS3** Method: **SW6020A**

MBLK Sample ID: **MBLK-140618-140618** Units: **mg/Kg** Analysis Date: **8/11/2019 07:25 PM**
Client ID: Run ID: **ICPMS3_190811B** SeqNo: **5837307** Prep Date: **8/10/2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	U	0.24								
Barium	U	0.24								
Cadmium	U	0.096								
Chromium	U	0.24								
Copper	U	0.24								
Lead	U	0.24								
Nickel	U	0.24								
Selenium	U	0.24								
Silver	U	0.24								
Zinc	U	0.48								

LCS Sample ID: **LCS-140618-140618** Units: **mg/Kg** Analysis Date: **8/11/2019 07:27 PM**
Client ID: Run ID: **ICPMS3_190811B** SeqNo: **5837308** Prep Date: **8/10/2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	5.266	0.25	4.902	0	107	80-120	0			
Barium	5.162	0.25	4.902	0	105	80-120	0			
Cadmium	4.986	0.098	4.902	0	102	80-120	0			
Chromium	5.399	0.25	4.902	0	110	80-120	0			
Copper	5.325	0.25	4.902	0	109	80-120	0			
Lead	5.164	0.25	4.902	0	105	80-120	0			
Nickel	5.374	0.25	4.902	0	110	80-120	0			
Selenium	4.902	0.25	4.902	0	100	80-120	0			
Silver	5.238	0.25	4.902	0	107	80-120	0			
Zinc	5.266	0.49	4.902	0	107	80-120	0			

MS Sample ID: **19080640-05AMS** Units: **mg/Kg** Analysis Date: **8/11/2019 08:39 PM**
Client ID: Run ID: **ICPMS3_190811B** SeqNo: **5837374** Prep Date: **8/10/2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	11.66	0.37	7.396	4.794	92.9	75-125	0			
Barium	131.9	0.37	7.396	105	364	75-125	0			SO
Cadmium	5.875	0.15	7.396	0.1023	78	75-125	0			
Chromium	18.72	0.37	7.396	7.723	149	75-125	0			S
Copper	15.08	0.37	7.396	9.734	72.3	75-125	0			S
Lead	21.54	0.37	7.396	14	102	75-125	0			
Nickel	19.37	0.37	7.396	12.22	96.7	75-125	0			
Selenium	6.81	0.37	7.396	0.6673	83	75-125	0			
Silver	5.784	0.37	7.396	0.05259	77.5	75-125	0			

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

Client: Terra Energy Partners, LLC
Work Order: 19080633
Project: MV 13-33-695 Tank Release

QC BATCH REPORT

Batch ID: **140618** Instrument ID **ICPMS3** Method: **SW6020A**

MS Sample ID: **19080640-05AMS** Units: **mg/Kg** Analysis Date: **8/12/2019 07:16 PM**
Client ID: Run ID: **ICPMS3_190812A** SeqNo: **5840425** Prep Date: **8/10/2019** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Zinc	78.2	7.4	7.396	63.65	197	75-125	0			SO

MSD Sample ID: **19080640-05AMSD** Units: **mg/Kg** Analysis Date: **8/11/2019 08:41 PM**
Client ID: Run ID: **ICPMS3_190811B** SeqNo: **5837375** Prep Date: **8/10/2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	11.63	0.37	7.353	4.794	92.9	75-125	11.66	0.294	20	
Barium	123	0.37	7.353	105	245	75-125	131.9	7.01	20	SO
Cadmium	5.907	0.15	7.353	0.1023	78.9	75-125	5.875	0.549	20	
Chromium	18.43	0.37	7.353	7.723	146	75-125	18.72	1.55	20	S
Copper	15.29	0.37	7.353	9.734	75.5	75-125	15.08	1.34	20	
Lead	21.62	0.37	7.353	14	104	75-125	21.54	0.377	20	
Nickel	19.21	0.37	7.353	12.22	95	75-125	19.37	0.861	20	
Selenium	6.903	0.37	7.353	0.6673	84.8	75-125	6.81	1.37	20	
Silver	5.795	0.37	7.353	0.05259	78.1	75-125	5.784	0.187	20	

MSD Sample ID: **19080640-05AMSD** Units: **mg/Kg** Analysis Date: **8/12/2019 07:17 PM**
Client ID: Run ID: **ICPMS3_190812A** SeqNo: **5840426** Prep Date: **8/10/2019** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Zinc	72.79	7.4	7.353	63.65	124	75-125	78.2	7.16	20	O

The following samples were analyzed in this batch:

19080633-01A	19080633-02A	19080633-04A
19080633-05A	19080633-06A	

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

Client: Terra Energy Partners, LLC
Work Order: 19080633
Project: MV 13-33-695 Tank Release

QC BATCH REPORT

Batch ID: **140731** Instrument ID **ICPMS3** Method: **SW6020A**

DUP Sample ID: **19080634-04ADUP** Units: **mg/L** Analysis Date: **8/14/2019 06:36 PM**
Client ID: Run ID: **ICPMS3_190814A** SeqNo: **5845972** Prep Date: **8/13/2019** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	98.32	5.0	0	0	0	0-0	79.79	20.8		
Magnesium	12.64	2.0	0	0	0	0-0	10.28	20.6		
Sodium	23.16	2.0	0	0	0	0-0	18	25.1		

The following samples were analyzed in this batch:

19080633-01A	19080633-02A	19080633-04A
19080633-05A	19080633-06A	

Batch ID: **140731** Instrument ID **SAR** Method: **USDA H60 Metho**

DUP Sample ID: **19080634-04ADUP** Units: **none** Analysis Date: **8/14/2019**
Client ID: Run ID: **SAR_190814B** SeqNo: **5848850** Prep Date: **8/13/2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	0.5842	0.010	0	0	0		0.504	14.7	50	

The following samples were analyzed in this batch:

19080633-01A	19080633-02A	19080633-04A
19080633-05A	19080633-06A	

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

Client: Terra Energy Partners, LLC
Work Order: 19080633
Project: MV 13-33-695 Tank Release

QC BATCH REPORT

Batch ID: **140554** Instrument ID **SVMS6** Method: **SW846 8270D**

MBLK Sample ID: **SBLKS1-140554-140554** Units: **µg/Kg** Analysis Date: **8/9/2019 11:55 AM**
Client ID: Run ID: **SVMS6_190809A** SeqNo: **5835992** Prep Date: **8/9/2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
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	*2968*	0	*3333*	0	*89*	*20-140*	0			
Surr: 4-Terphenyl-d14	*2843*	0	*3333*	0	*85.3*	*22-172*	0			
Surr: Nitrobenzene-d5	*3226*	0	*3333*	0	*96.8*	*28-140*	0			

LCS Sample ID: **SLCSS1-140554-140554** Units: **µg/Kg** Analysis Date: **8/9/2019 12:11 PM**
Client ID: Run ID: **SVMS6_190809A** SeqNo: **5835993** Prep Date: **8/9/2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	991.1	4.2	1333	0	74.4	40-140	0			
Anthracene	1097	4.2	1333	0	82.3	40-140	0			
Benzo(a)anthracene	968	4.2	1333	0	72.6	40-140	0			
Benzo(a)pyrene	1105	4.2	1333	0	82.9	40-140	0			
Benzo(b)fluoranthene	1010	4.2	1333	0	75.8	40-140	0			
Benzo(k)fluoranthene	1037	4.2	1333	0	77.8	40-140	0			
Chrysene	1027	4.2	1333	0	77.1	40-140	0			
Dibenzo(a,h)anthracene	1138	4.2	1333	0	85.4	40-140	0			
Fluoranthene	1267	4.2	1333	0	95.1	40-140	0			
Fluorene	1071	4.2	1333	0	80.3	40-140	0			
Indeno(1,2,3-cd)pyrene	1217	4.2	1333	0	91.3	40-140	0			
Naphthalene	1105	4.2	1333	0	82.9	40-140	0			
Pyrene	781.4	4.2	1333	0	58.6	40-140	0			
Surr: 2-Fluorobiphenyl	*2743*	0	*3333*	0	*82.3*	*20-140*	0			
Surr: 4-Terphenyl-d14	*2291*	0	*3333*	0	*68.7*	*22-172*	0			
Surr: Nitrobenzene-d5	*2511*	0	*3333*	0	*75.3*	*28-140*	0			

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

Client: Terra Energy Partners, LLC
Work Order: 19080633
Project: MV 13-33-695 Tank Release

QC BATCH REPORT

Batch ID: **140554** Instrument ID **SVMS6** Method: **SW846 8270D**

MS Sample ID: **19080597-07A MS** Units: **µg/Kg** Analysis Date: **8/9/2019 12:26 PM**
Client ID: Run ID: **SVMS6_190809A** SeqNo: **5835994** Prep Date: **8/9/2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	960.6	4.0	1294	0	74.3	40-140	0			
Anthracene	1040	4.0	1294	0	80.4	40-140	0			
Benzo(a)anthracene	937.2	4.0	1294	0	72.5	40-140	0			
Benzo(a)pyrene	1032	4.0	1294	0	79.8	40-140	0			
Benzo(b)fluoranthene	915.5	4.0	1294	0	70.8	40-140	0			
Benzo(k)fluoranthene	968.4	4.0	1294	0	74.9	40-140	0			
Chrysene	980.8	4.0	1294	0	75.8	40-140	0			
Dibenzo(a,h)anthracene	1051	4.0	1294	0	81.2	40-140	0			
Fluoranthene	1143	4.0	1294	0	88.4	40-140	0			
Fluorene	1037	4.0	1294	0	80.2	40-140	0			
Indeno(1,2,3-cd)pyrene	1130	4.0	1294	0	87.4	40-140	0			
Naphthalene	1105	4.0	1294	3.971	85.1	40-140	0			
Pyrene	839.3	4.0	1294	0	64.9	40-140	0			
Surr: 2-Fluorobiphenyl	*2620*	0	*3234*	0	*81*	*20-140*	0			
Surr: 4-Terphenyl-d14	*2391*	0	*3234*	0	*73.9*	*22-172*	0			
Surr: Nitrobenzene-d5	*2850*	0	*3234*	0	*88.1*	*28-140*	0			

MSD Sample ID: **19080597-07A MSD** Units: **µg/Kg** Analysis Date: **8/9/2019 12:42 PM**
Client ID: Run ID: **SVMS6_190809A** SeqNo: **5835995** Prep Date: **8/9/2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	988.3	4.0	1269	0	77.9	40-140	960.6	2.85	30	
Anthracene	1058	4.0	1269	0	83.4	40-140	1040	1.75	30	
Benzo(a)anthracene	955.8	4.0	1269	0	75.3	40-140	937.2	1.96	30	
Benzo(a)pyrene	1005	4.0	1269	0	79.2	40-140	1032	2.66	30	
Benzo(b)fluoranthene	870.4	4.0	1269	0	68.6	40-140	915.5	5.06	30	
Benzo(k)fluoranthene	931	4.0	1269	0	73.4	40-140	968.4	3.94	30	
Chrysene	982.6	4.0	1269	0	77.4	40-140	980.8	0.179	30	
Dibenzo(a,h)anthracene	989.4	4.0	1269	0	78	40-140	1051	6.02	30	
Fluoranthene	1187	4.0	1269	0	93.5	40-140	1143	3.73	30	
Fluorene	1038	4.0	1269	0	81.8	40-140	1037	0.084	30	
Indeno(1,2,3-cd)pyrene	1074	4.0	1269	0	84.6	40-140	1130	5.12	30	
Naphthalene	1150	4.0	1269	3.971	90.3	40-140	1105	4.01	30	
Pyrene	941.1	4.0	1269	0	74.2	40-140	839.3	11.4	30	
Surr: 2-Fluorobiphenyl	*2704*	0	*3173*	0	*85.2*	*20-140*	2620	*3.13*	*0*	
Surr: 4-Terphenyl-d14	*2720*	0	*3173*	0	*85.7*	*22-172*	2391	*12.8*	*0*	
Surr: Nitrobenzene-d5	*3071*	0	*3173*	0	*96.8*	*28-140*	2850	*7.43*	*0*	

The following samples were analyzed in this batch:

19080633-01A	19080633-02A	19080633-04A
19080633-05A	19080633-06A	

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

Client: Terra Energy Partners, LLC
Work Order: 19080633
Project: MV 13-33-695 Tank Release

QC BATCH REPORT

Batch ID: **140586** Instrument ID **VMS10** Method: **SW8260C**

MBLK Sample ID: **MBLK-140586-140586** Units: **µg/Kg-dry** Analysis Date: **8/9/2019 08:02 PM**
Client ID: Run ID: **VMS10_190809B** SeqNo: **5838494** Prep Date: **8/9/2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	U	30								
Ethylbenzene	U	30								
m,p-Xylene	U	60								
o-Xylene	U	30								
Toluene	U	30								
Xylenes, Total	U	90								
Surr: 1,2-Dichloroethane-d4	*1084*	0	*1000*	0	*108*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*988*	0	*1000*	0	*98.8*	*70-130*	0			
Surr: Dibromofluoromethane	*886*	0	*1000*	0	*88.6*	*70-130*	0			
Surr: Toluene-d8	*1002*	0	*1000*	0	*100*	*70-130*	0			

LCS Sample ID: **LCS-140586-140586** Units: **µg/Kg-dry** Analysis Date: **8/9/2019 07:10 PM**
Client ID: Run ID: **VMS10_190809B** SeqNo: **5838493** Prep Date: **8/9/2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1032	30	1000	0	103	75-125	0			
Ethylbenzene	1010	30	1000	0	101	75-125	0			
m,p-Xylene	2008	60	2000	0	100	80-125	0			
o-Xylene	998.5	30	1000	0	99.8	75-125	0			
Toluene	972	30	1000	0	97.2	70-125	0			
Xylenes, Total	3006	90	3000	0	100	75-125	0			
Surr: 1,2-Dichloroethane-d4	*1110*	0	*1000*	0	*111*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*979.5*	0	*1000*	0	*98*	*70-130*	0			
Surr: Dibromofluoromethane	*1045*	0	*1000*	0	*104*	*70-130*	0			
Surr: Toluene-d8	*991*	0	*1000*	0	*99.1*	*70-130*	0			

MS Sample ID: **19080633-01A MS** Units: **µg/Kg-dry** Analysis Date: **8/12/2019 08:31 PM**
Client ID: **MV 13-33 Excavation: North Wall** Run ID: **VMS9_190812A** SeqNo: **5841178** Prep Date: **8/9/2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1160	32	1080	0	107	75-125	0			
Ethylbenzene	1119	32	1080	0	104	75-125	0			
m,p-Xylene	2430	65	2160	0	112	80-125	0			
o-Xylene	1171	32	1080	0	108	75-125	0			
Toluene	1191	32	1080	0	110	70-125	0			
Xylenes, Total	3601	97	3240	0	111	75-125	0			
Surr: 1,2-Dichloroethane-d4	*1063*	0	*1080*	0	*98.4*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*1112*	0	*1080*	0	*103*	*70-130*	0			
Surr: Dibromofluoromethane	*947.1*	0	*1080*	0	*87.7*	*70-130*	0			
Surr: Toluene-d8	*1102*	0	*1080*	0	*102*	*70-130*	0			

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

Client: Terra Energy Partners, LLC
Work Order: 19080633
Project: MV 13-33-695 Tank Release

QC BATCH REPORT

Batch ID: **140586** Instrument ID **VMS10** Method: **SW8260C**

MSD Sample ID: **19080633-01A MSD** Units: **µg/Kg-dry** Analysis Date: **8/12/2019 08:46 PM**
Client ID: **MV 13-33 Excavation: North Wall** Run ID: **VMS9_190812A** SeqNo: **5841179** Prep Date: **8/9/2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	916	32	1076	0	85.1	75-125	1160	23.5	30	
Ethylbenzene	868.1	32	1076	0	80.6	75-125	1119	25.2	30	
m,p-Xylene	1887	65	2153	0	87.6	80-125	2430	25.1	30	
o-Xylene	919.8	32	1076	0	85.4	75-125	1171	24	30	
Toluene	916	32	1076	0	85.1	70-125	1191	26.1	30	
Xylenes, Total	2807	97	3229	0	86.9	75-125	3601	24.8	30	
Surr: 1,2-Dichloroethane-d4	*1052*	0	*1076*	0	*97.7*	*70-130*	1063	*1.09*	*30*	
Surr: 4-Bromofluorobenzene	*1115*	0	*1076*	0	*104*	*70-130*	1112	*0.306*	*30*	
Surr: Dibromofluoromethane	*939.7*	0	*1076*	0	*87.3*	*70-130*	947.1	*0.781*	*30*	
Surr: Toluene-d8	*1080*	0	*1076*	0	*100*	*70-130*	1102	*2*	*30*	

The following samples were analyzed in this batch:

19080633-01A	19080633-02A	19080633-04A
19080633-05A	19080633-06A	

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

Client: Terra Energy Partners, LLC
Work Order: 19080633
Project: MV 13-33-695 Tank Release

QC BATCH REPORT

Batch ID: **140593** Instrument ID **WETCHEM** Method: **SW9045D**

LCS Sample ID: **LCS-140593-140593** Units: **s.u.** Analysis Date: **8/9/2019 03:00 PM**
Client ID: Run ID: **WETCHEM_190809** SeqNo: **5835398** Prep Date: **8/9/2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	3.97	0.10	4	0	99.2	90-110	0			

DUP Sample ID: **19080543-01A DUP** Units: **s.u.** Analysis Date: **8/9/2019 03:00 PM**
Client ID: Run ID: **WETCHEM_190809** SeqNo: **5835400** Prep Date: **8/9/2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	8.24	0.10	0	0	0	0-0	8.02	2.71	20	
Temperature	22	0.10	0	0	0		22	0		

DUP Sample ID: **19080634-01A DUP** Units: **s.u.** Analysis Date: **8/9/2019 03:00 PM**
Client ID: Run ID: **WETCHEM_190809** SeqNo: **5835412** Prep Date: **8/9/2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	8.94	0.10	0	0	0	0-0	8.98	0.446	20	
Temperature	22	0.10	0	0	0		22	0		

The following samples were analyzed in this batch:

19080633-01A	19080633-02A	19080633-04A
19080633-05A	19080633-06A	

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

Client: Terra Energy Partners, LLC
Work Order: 19080633
Project: MV 13-33-695 Tank Release

QC BATCH REPORT

Batch ID: **140696** Instrument ID **WETCHEM** Method: **SW7196A**

MBLK Sample ID: **MBLK-140696-140696** Units: **mg/Kg** Analysis Date: **8/12/2019 02:30 PM**
Client ID: Run ID: **WETCHEM_190812M** SeqNo: **5838972** Prep Date: **8/9/2019** 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-140696-140696** Units: **mg/Kg** Analysis Date: **8/12/2019 02:30 PM**
Client ID: Run ID: **WETCHEM_190812M** SeqNo: **5838973** Prep Date: **8/9/2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	4.41	1.0	5	0	88.2	80-120	0			

MS Sample ID: **19080633-01A MS** Units: **mg/Kg** Analysis Date: **8/12/2019 02:30 PM**
Client ID: **MV 13-33 Excavation: North Wall** Run ID: **WETCHEM_190812M** SeqNo: **5838976** Prep Date: **8/9/2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	2.74	1.0	5	-0.09	56.6	75-125	0			S

MS Sample ID: **19080633-01A MSI** Units: **mg/Kg** Analysis Date: **8/12/2019 02:30 PM**
Client ID: **MV 13-33 Excavation: North Wall** Run ID: **WETCHEM_190812M** SeqNo: **5838978** Prep Date: **8/9/2019** DF: **100**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	2075	100	2172	-0.09	95.5	75-125	0			

MSD Sample ID: **19080633-01A MSD** Units: **mg/Kg** Analysis Date: **8/12/2019 02:30 PM**
Client ID: **MV 13-33 Excavation: North Wall** Run ID: **WETCHEM_190812M** SeqNo: **5838977** Prep Date: **8/9/2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	3.099	0.99	4.95	-0.09	64.4	75-125	2.74	12.3	20	S

The following samples were analyzed in this batch:

19080633-01A	19080633-02A	19080633-04A
19080633-05A	19080633-06A	

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

Client: Terra Energy Partners, LLC
Work Order: 19080633
Project: MV 13-33-695 Tank Release

QC BATCH REPORT

Batch ID: **R268034** Instrument ID **MOIST** Method: **SW3550C**

MBLK Sample ID: **WBLKS-R268034** Units: **% of sample** Analysis Date: **8/9/2019 04:39 PM**
Client ID: Run ID: **MOIST_190809J** SeqNo: **5838065** 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-R268034** Units: **% of sample** Analysis Date: **8/9/2019 04:39 PM**
Client ID: Run ID: **MOIST_190809J** SeqNo: **5838064** 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: **19080673-01A DUP** Units: **% of sample** Analysis Date: **8/9/2019 04:39 PM**
Client ID: Run ID: **MOIST_190809J** SeqNo: **5838061** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	10.93	0.10	0	0	0	0-0	11.53	5.34	10	

DUP Sample ID: **19080676-01A DUP** Units: **% of sample** Analysis Date: **8/9/2019 04:39 PM**
Client ID: Run ID: **MOIST_190809J** SeqNo: **5838063** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	10.74	0.10	0	0	0	0-0	10.62	1.12	10	

The following samples were analyzed in this batch:

19080633-01A	19080633-02A	19080633-04A
19080633-05A	19080633-06A	

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

ALS Laboratory Group

HOLLAND, Michigan 49424

Chain-of-Custody

Form 202r8

WORKORDER # 19080633

		SAMPLER	Mike Gardner	DATE	8/7/2019	PAGE	1 of 1
PROJECT NAME	MV 13-33-695 Tank Release	SITE ID	MV 13-33-695	TURNAROUND	RUSH	DISPOSAL	By Lab or Return to Client
PROJECT No.		EDD FORMAT					
		PURCHASE ORDER					
COMPANY NAME	TEP Rocky Mountain LLC	BILL TO COMPANY	TEP Rocky Mountain LLC				
SEND REPORT TO	Mike Gardner	INVOICE ATTN TO	Mike Gardner, Tammy Gose				
ADDRESS		ADDRESS	1058 Co Rd 215				
CITY / STATE / ZIP		CITY / STATE / ZIP	Parachute, CO 81635				
PHONE		PHONE	970-263-2760				
FAX		FAX					
E-MAIL	mgardner@terraep.com, krowe@hrlcomp.com	E-MAIL	mgardner@terraep.com; tgose@terraep.com				

Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC	COGCC Full 910-1 list
1	MV 13-33 Excavation: North Wall	Soil	8/7/2019	12:00 p.m.	16 oz glass			X
2	MV 13-33 Excavation: South Wall	Soil	8/7/2019	3:30 p.m.	16 oz glass			X
3	MV 13-33 Excavation: East Wall	Soil	8/7/2019	3:45 p.m.	16 oz glass			X
4	MV 13-33 Excavation: West Wall	Soil	8/7/2019	12:30 p.m.	16 oz glass			X
5	MV 13-33 Excavation: Bottom	Soil	8/7/2019	1:00 p.m.	16 oz glass			X
6	MV 13-33 Background	Soil	8/7/2019	3:50 p.m.	16 oz glass			X

*Time Zone (Circle): EST CST MST PST Matrix: O = oil S = soil NS = non-soil solid W = water L = liquid E = extract F = filter

For metals or anions, please detail analytes below.

Comments:	QC PACKAGE (check below)	
SD2 4.4°C	X	LEVEL II (Standard QC)
		LEVEL III (Std QC + forms)
		LEVEL IV (Std QC + forms + raw data)

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

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY		Mike Gardner	8/7/2019	
RECEIVED BY			8-7-19	1810
RELINQUISHED BY			8.7.19	1830
RECEIVED BY		D. Graef Shaw	8/9/19	0900
RELINQUISHED BY				
RECEIVED BY				

ALS Group, USA

Sample Receipt Checklist

Client Name: **TERRAENERGY** Date/Time Received: **09-Aug-19 09:00**

Work Order: **19080633** Received by: **DS**

Checklist completed by Diane Shaw (eSignature) 09-Aug-19 (Date) Reviewed by: Chad Whitton (eSignature) 09-Aug-19 (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):	4.4/4.4 c	SR2	
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	8/9/2019 10:03:28 AM		
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: