

ALS Group, USA

Date: 02-Nov-18

Client: HRL Compliance Solutions, Inc
Project: Terra Energy - RGU 33-24 Spill
Sample ID: North
Collection Date: 10/26/2018 10:12 AM

Work Order: 18101838
Lab ID: 18101838-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015M		Prep: SW3546 / 10/30/18		Analyst: RP
DRO (C10-C28)	U		2.8	4.8	mg/Kg	1	10/30/2018 20:32
Surr: 4-Terphenyl-d14	79.5			33-111	%REC	1	10/30/2018 20:32
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW5035 / 10/29/18		Analyst: RP
GRO (C6-C10)	U		2.1	5.0	mg/Kg	1	10/30/2018 03:53
Surr: Toluene-d8	94.8			71-123	%REC	1	10/30/2018 03:53
MERCURY BY CVAA							
			Method: SW7471B		Prep: SW7471 / 10/29/18		Analyst: RSB
Mercury	0.016	J	0.0017	0.017	mg/Kg	1	10/30/2018 13:55
METALS ANALYSIS BY ICP							
			Method: SW846 6010C		Prep: SW3050B / 10/29/18		Analyst: ABL
Arsenic	3.8		0.088	0.34	mg/Kg	1	10/31/2018 02:35
Barium	210		0.13	0.34	mg/Kg	1	10/31/2018 02:35
Cadmium	0.082	J	0.032	0.67	mg/Kg	1	10/31/2018 02:35
Chromium	13		0.019	0.34	mg/Kg	1	10/31/2018 02:35
Copper	11		0.15	0.67	mg/Kg	1	10/31/2018 02:35
Lead	5.9		0.072	0.34	mg/Kg	1	10/31/2018 14:16
Nickel	9.0		0.13	0.34	mg/Kg	1	10/31/2018 02:35
Selenium	U		0.19	0.67	mg/Kg	1	10/31/2018 02:35
Silver	U		0.042	0.34	mg/Kg	1	10/31/2018 02:35
Zinc	32		0.054	0.67	mg/Kg	1	10/31/2018 02:35
SOLUBLE CATIONS FOR SAR							
			Method: SW6020A		Prep: USDA Method 20B / 10/31/18		Analyst: STP
Calcium	130		0.86	5.0	mg/L	10	10/31/2018 23:55
Magnesium	78		0.068	2.0	mg/L	10	10/31/2018 23:55
Sodium	610		0.34	2.0	mg/L	10	10/31/2018 23:55
SODIUM ADSORPTION RATIO							
			Method: USDA H60 METHOD 2		Prep: USDA Method 20B / 10/31/18		Analyst: STP
Sodium Adsorption Ratio	10		0.010	0.010	none	1	10/31/2018
SEMI-VOLATILE ORGANIC COMPOUNDS							
			Method: SW846 8270D		Prep: SW3546 / 10/30/18		Analyst: KAW
Acenaphthene	U		4.7	6.4	µg/Kg	1	10/30/2018 16:06
Anthracene	U		4.5	6.4	µg/Kg	1	10/30/2018 16:06
Benzo(a)anthracene	U		5.6	6.4	µg/Kg	1	10/30/2018 16:06
Benzo(a)pyrene	U		4.0	6.4	µg/Kg	1	10/30/2018 16:06
Benzo(b)fluoranthene	U		4.8	6.4	µg/Kg	1	10/30/2018 16:06
Benzo(k)fluoranthene	U		4.9	6.4	µg/Kg	1	10/30/2018 16:06
Chrysene	U		5.2	6.4	µg/Kg	1	10/30/2018 16:06
Dibenzo(a,h)anthracene	U		3.5	6.4	µg/Kg	1	10/30/2018 16:06
Fluoranthene	U		3.1	6.4	µg/Kg	1	10/30/2018 16:06

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

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Date: 02-Nov-18

Client: HRL Compliance Solutions, Inc
Project: Terra Energy - RGU 33-24 Spill
Sample ID: North
Collection Date: 10/26/2018 10:12 AM

Work Order: 18101838
Lab ID: 18101838-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	U		4.7	6.4	µg/Kg	1	10/30/2018 16:06
Indeno(1,2,3-cd)pyrene	U		4.5	6.4	µg/Kg	1	10/30/2018 16:06
Naphthalene	U		4.1	6.4	µg/Kg	1	10/30/2018 16:06
Pyrene	U		1.2	6.4	µg/Kg	1	10/30/2018 16:06
Surr: 2-Fluorobiphenyl	69.4			44-107	%REC	1	10/30/2018 16:06
Surr: 4-Terphenyl-d14	78.8			52-123	%REC	1	10/30/2018 16:06
Surr: Nitrobenzene-d5	61.7			41-94	%REC	1	10/30/2018 16:06
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C		Prep: SW5035 / 10/29/18		Analyst: WH
Benzene	U		0.0051	0.030	mg/Kg	1	10/29/2018 18:52
Ethylbenzene	U		0.0063	0.030	mg/Kg	1	10/29/2018 18:52
m,p-Xylene	U		0.014	0.060	mg/Kg	1	10/29/2018 18:52
o-Xylene	U		0.012	0.030	mg/Kg	1	10/29/2018 18:52
Toluene	U		0.0082	0.030	mg/Kg	1	10/29/2018 18:52
Xylenes, Total	U		0.026	0.090	mg/Kg	1	10/29/2018 18:52
Surr: 1,2-Dichloroethane-d4	96.6			70-130	%REC	1	10/29/2018 18:52
Surr: 4-Bromofluorobenzene	102			70-130	%REC	1	10/29/2018 18:52
Surr: Dibromofluoromethane	92.0			70-130	%REC	1	10/29/2018 18:52
Surr: Toluene-d8	93.1			70-130	%REC	1	10/29/2018 18:52
ELECTRICAL CONDUCTIVITY (SAR)			Method: USDA H60 METHOD 2		Prep: USDA Method 20B / 10/31/18		Analyst: JB
Electrical Conductivity @ Saturation	4.7		0.011	0.10	mmhos/cm @25°	20	11/1/2018 20:00
CHROMIUM, TRIVALENT			Method: CALCULATION				Analyst: JB
Chromium, Trivalent	13		0.31	1.0	mg/Kg	1	10/31/2018 13:30
CHROMIUM, HEXAVALENT			Method: SW7196A		Prep: SW3060A / 10/30/18		Analyst: JEB
Chromium, Hexavalent	U		0.31	1.0	mg/Kg	1	10/31/2018 10:10
PH			Method: SW9045D		Prep: EXTRACT / 10/31/18		Analyst: RZM
pH	8.10		0.10	0.100	s.u.	1	10/31/2018 13:55

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

PRELIMINARY

ALS Group, USA

Date: 02-Nov-18

Client: HRL Compliance Solutions, Inc
Project: Terra Energy - RGU 33-24 Spill
Sample ID: Middle
Collection Date: 10/26/2018 10:38 AM

Work Order: 18101838
Lab ID: 18101838-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015M		Prep: SW3546 / 10/30/18		Analyst: RP
DRO (C10-C28)	U		3.4	5.9	mg/Kg-dry	1	10/30/2018 21:01
Surr: 4-Terphenyl-d14	86.6			33-111	%REC	1	10/30/2018 21:01
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW5035 / 10/29/18		Analyst: RP
GRO (C6-C10)	U		3.0	7.2	mg/Kg	1	10/30/2018 04:19
Surr: Toluene-d8	100			71-123	%REC	1	10/30/2018 04:19
MERCURY BY CVAA							
			Method: SW7471B		Prep: SW7471 / 10/29/18		Analyst: RSH
Mercury	0.016	J	0.0023	0.023	mg/Kg-dry	1	10/30/2018 13:58
METALS ANALYSIS BY ICP							
			Method: SW846 6010C		Prep: SW3050B / 10/29/18		Analyst: ABL
Arsenic	5.1		0.10	0.39	mg/Kg-dry	1	10/31/2018 03:06
Barium	230		0.16	0.39	mg/Kg-dry	1	10/31/2018 03:06
Cadmium	0.11	J	0.038	0.79	mg/Kg-dry	1	10/31/2018 03:06
Chromium	18		0.022	0.39	mg/Kg-dry	1	10/31/2018 03:06
Copper	14		0.17	0.79	mg/Kg-dry	1	10/31/2018 03:06
Lead	7.5		0.083	0.39	mg/Kg-dry	1	10/31/2018 14:22
Nickel	12		0.16	0.39	mg/Kg-dry	1	10/31/2018 03:06
Selenium	U		0.22	0.79	mg/Kg-dry	1	10/31/2018 03:06
Silver	U		0.049	0.39	mg/Kg-dry	1	10/31/2018 03:06
Zinc	40		0.063	0.79	mg/Kg-dry	1	10/31/2018 03:06
SOLUBLE CATIONS FOR SAR							
			Method: SW6020A		Prep: USDA Method 20B / 10/31/18		Analyst: STP
Calcium	370		0.86	5.0	mg/L	10	10/31/2018 23:57
Magnesium	180		0.068	2.0	mg/L	10	10/31/2018 23:57
Sodium	890		0.34	2.0	mg/L	10	10/31/2018 23:57
SODIUM ADSORPTION RATIO							
			Method: USDA H60 METHOD 2		Prep: USDA Method 20B / 10/31/18		Analyst: STP
Sodium Adsorption Ratio	9.5		0.010	0.010	none	1	10/31/2018
SEMI-VOLATILE ORGANIC COMPOUNDS							
			Method: SW846 8270D		Prep: SW3546 / 10/30/18		Analyst: KAW
Acenaphthene	U		5.7	7.9	µg/Kg-dry	1	10/30/2018 16:30
Anthracene	U		5.6	7.9	µg/Kg-dry	1	10/30/2018 16:30
Benzo(a)anthracene	U		6.8	7.9	µg/Kg-dry	1	10/30/2018 16:30
Benzo(a)pyrene	U		4.9	7.9	µg/Kg-dry	1	10/30/2018 16:30
Benzo(b)fluoranthene	U		5.9	7.9	µg/Kg-dry	1	10/30/2018 16:30
Benzo(k)fluoranthene	U		6.0	7.9	µg/Kg-dry	1	10/30/2018 16:30
Chrysene	U		6.4	7.9	µg/Kg-dry	1	10/30/2018 16:30
Dibenzo(a,h)anthracene	U		4.3	7.9	µg/Kg-dry	1	10/30/2018 16:30
Fluoranthene	9.5		3.8	7.9	µg/Kg-dry	1	10/30/2018 16:30

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

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Date: 02-Nov-18

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Project: Terra Energy - RGU 33-24 Spill
Sample ID: Middle
Collection Date: 10/26/2018 10:38 AM

Work Order: 18101838
Lab ID: 18101838-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	U		5.7	7.9	µg/Kg-dry	1	10/30/2018 16:30
Indeno(1,2,3-cd)pyrene	U		5.5	7.9	µg/Kg-dry	1	10/30/2018 16:30
Naphthalene	U		5.1	7.9	µg/Kg-dry	1	10/30/2018 16:30
Pyrene	7.9		1.4	7.9	µg/Kg-dry	1	10/30/2018 16:30
Surr: 2-Fluorobiphenyl	80.2			44-107	%REC	1	10/30/2018 16:30
Surr: 4-Terphenyl-d14	87.9			52-123	%REC	1	10/30/2018 16:30
Surr: Nitrobenzene-d5	71.1			41-94	%REC	1	10/30/2018 16:30
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C		Prep: SW5035 / 10/29/18		Analyst: AK
Benzene	U		0.0051	0.030	mg/Kg	1	10/30/2018 14:26
Ethylbenzene	U		0.0063	0.030	mg/Kg	1	10/30/2018 14:26
m,p-Xylene	U		0.014	0.060	mg/Kg	1	10/30/2018 14:26
o-Xylene	U		0.012	0.030	mg/Kg	1	10/30/2018 14:26
Toluene	U		0.0082	0.030	mg/Kg	1	10/30/2018 14:26
Xylenes, Total	U		0.026	0.090	mg/Kg	1	10/30/2018 14:26
Surr: 1,2-Dichloroethane-d4	99.6			70-130	%REC	1	10/30/2018 14:26
Surr: 4-Bromofluorobenzene	94.0			70-130	%REC	1	10/30/2018 14:26
Surr: Dibromofluoromethane	94.0			70-130	%REC	1	10/30/2018 14:26
Surr: Toluene-d8	97.4			70-130	%REC	1	10/30/2018 14:26
ELECTRICAL CONDUCTIVITY (SAR)			Method: USDA H60 METHOD 2		Prep: USDA Method 20B / 10/31/18		Analyst: JB
Electrical Conductivity @ Saturation	8.2		0.011	0.10	mmhos/cm @25°	20	11/1/2018 20:00
CHROMIUM, TRIVALENT			Method: CALCULATION				Analyst: JB
Chromium, Trivalent	17		0.38	1.2	mg/Kg-dry	1	10/31/2018 13:30
CHROMIUM, HEXAVALENT			Method: SW7196A		Prep: SW3060A / 10/30/18		Analyst: JEB
Chromium, Hexavalent	1.0	J	0.37	1.2	mg/Kg-dry	1	10/31/2018 10:10
MOISTURE			Method: SW3550C				Analyst: RBS
Moisture	18		0.025	0.050	% of sample	1	10/31/2018 16:58
PH			Method: SW9045D		Prep: EXTRACT / 10/31/18		Analyst: RZM
pH	8.22		0.10	0.100	s.u.	1	10/31/2018 13:55

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

PRELIMINARY

ALS Group, USA

Date: 02-Nov-18

Client: HRL Compliance Solutions, Inc
Project: Terra Energy - RGU 33-24 Spill
Sample ID: South
Collection Date: 10/26/2018 10:44 AM

Work Order: 18101838
Lab ID: 18101838-03
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015M		Prep: SW3546 / 10/30/18		Analyst: RP
DRO (C10-C28)	U		3.3	5.8	mg/Kg-dry	1	10/30/2018 21:30
Surr: 4-Terphenyl-d14	80.8			33-111	%REC	1	10/30/2018 21:30
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW5035 / 10/29/18		Analyst: RP
GRO (C6-C10)	4.8	J	2.9	6.9	mg/Kg	1	10/30/2018 04:46
Surr: Toluene-d8	96.2			71-123	%REC	1	10/30/2018 04:46
MERCURY BY CVAA							
			Method: SW7471B		Prep: SW7471 / 10/29/18		Analyst: RSH
Mercury	0.016	J	0.0020	0.020	mg/Kg-dry	1	10/30/2018 14:00
METALS ANALYSIS BY ICP							
			Method: SW846 6010C		Prep: SW3050B / 10/29/18		Analyst: ABL
Arsenic	4.7		0.13	0.48	mg/Kg-dry	1	10/31/2018 03:12
Barium	270		0.19	0.48	mg/Kg-dry	1	10/31/2018 03:12
Cadmium	0.097	J	0.047	0.97	mg/Kg-dry	1	10/31/2018 03:12
Chromium	18		0.027	0.48	mg/Kg-dry	1	10/31/2018 03:12
Copper	14		0.21	0.97	mg/Kg-dry	1	10/31/2018 03:12
Lead	8.3		0.10	0.48	mg/Kg-dry	1	10/31/2018 14:28
Nickel	12		0.19	0.48	mg/Kg-dry	1	10/31/2018 03:12
Selenium	U		0.27	0.97	mg/Kg-dry	1	10/31/2018 03:12
Silver	U		0.060	0.48	mg/Kg-dry	1	10/31/2018 03:12
Zinc	42		0.078	0.97	mg/Kg-dry	1	10/31/2018 03:12
SOLUBLE CATIONS FOR SAR							
			Method: SW6020A		Prep: USDA Method 20B / 10/31/18		Analyst: STP
Calcium	150		0.86	5.0	mg/L	10	10/31/2018 23:58
Magnesium	120		0.068	2.0	mg/L	10	10/31/2018 23:58
Sodium	860		0.34	2.0	mg/L	10	10/31/2018 23:58
SODIUM ADSORPTION RATIO							
			Method: USDA H60 METHOD 2		Prep: USDA Method 20B / 10/31/18		Analyst: STP
Sodium Adsorption Ratio	13		0.010	0.010	none	1	10/31/2018
SEMI-VOLATILE ORGANIC COMPOUNDS							
			Method: SW846 8270D		Prep: SW3546 / 10/30/18		Analyst: KAW
Acenaphthene	U		5.6	7.8	µg/Kg-dry	1	10/30/2018 16:54
Anthracene	U		5.5	7.8	µg/Kg-dry	1	10/30/2018 16:54
Benzo(a)anthracene	U		6.7	7.8	µg/Kg-dry	1	10/30/2018 16:54
Benzo(a)pyrene	U		4.8	7.8	µg/Kg-dry	1	10/30/2018 16:54
Benzo(b)fluoranthene	U		5.8	7.8	µg/Kg-dry	1	10/30/2018 16:54
Benzo(k)fluoranthene	U		5.9	7.8	µg/Kg-dry	1	10/30/2018 16:54
Chrysene	U		6.3	7.8	µg/Kg-dry	1	10/30/2018 16:54
Dibenzo(a,h)anthracene	U		4.2	7.8	µg/Kg-dry	1	10/30/2018 16:54
Fluoranthene	U		3.7	7.8	µg/Kg-dry	1	10/30/2018 16:54

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

PRELIMINARY

ALS Group, USA

Date: 02-Nov-18

Client: HRL Compliance Solutions, Inc
Project: Terra Energy - RGU 33-24 Spill
Sample ID: South
Collection Date: 10/26/2018 10:44 AM

Work Order: 18101838
Lab ID: 18101838-03
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	U		5.6	7.8	µg/Kg-dry	1	10/30/2018 16:54
Indeno(1,2,3-cd)pyrene	U		5.4	7.8	µg/Kg-dry	1	10/30/2018 16:54
Naphthalene	U		5.0	7.8	µg/Kg-dry	1	10/30/2018 16:54
Pyrene	U		1.4	7.8	µg/Kg-dry	1	10/30/2018 16:54
Surr: 2-Fluorobiphenyl	63.3			44-107	%REC	1	10/30/2018 16:54
Surr: 4-Terphenyl-d14	71.0			52-123	%REC	1	10/30/2018 16:54
Surr: Nitrobenzene-d5	55.1			41-94	%REC	1	10/30/2018 16:54
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C		Prep: SW5035 / 10/29/18		Analyst: AK
Benzene	U		0.0051	0.030	mg/Kg	1	10/30/2018 14:42
Ethylbenzene	U		0.0063	0.030	mg/Kg	1	10/30/2018 14:42
m,p-Xylene	U		0.014	0.060	mg/Kg	1	10/30/2018 14:42
o-Xylene	U		0.012	0.030	mg/Kg	1	10/30/2018 14:42
Toluene	U		0.0082	0.030	mg/Kg	1	10/30/2018 14:42
Xylenes, Total	U		0.026	0.090	mg/Kg	1	10/30/2018 14:42
Surr: 1,2-Dichloroethane-d4	101			70-130	%REC	1	10/30/2018 14:42
Surr: 4-Bromofluorobenzene	100			70-130	%REC	1	10/30/2018 14:42
Surr: Dibromofluoromethane	90.4			70-130	%REC	1	10/30/2018 14:42
Surr: Toluene-d8	98.6			70-130	%REC	1	10/30/2018 14:42
ELECTRICAL CONDUCTIVITY (SAR)			Method: USDA H60 METHOD 2		Prep: USDA Method 20B / 10/31/18		Analyst: JB
Electrical Conductivity @ Saturation	6.5		0.011	0.10	mmhos/cm @25°	20	11/1/2018 20:00
CHROMIUM, TRIVALENT			Method: CALCULATION				Analyst: JB
Chromium, Trivalent	18		0.37	1.2	mg/Kg-dry	1	10/31/2018 13:30
CHROMIUM, HEXAVALENT			Method: SW7196A		Prep: SW3060A / 10/30/18		Analyst: JEB
Chromium, Hexavalent	0.86	J	0.37	1.2	mg/Kg-dry	1	10/31/2018 10:10
MOISTURE			Method: SW3550C				Analyst: RBS
Moisture	16		0.025	0.050	% of sample	1	10/31/2018 16:58
PH			Method: SW9045D		Prep: EXTRACT / 10/31/18		Analyst: RZM
pH	8.39		0.10	0.100	s.u.	1	10/31/2018 13:55

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

PRELIMINARY

ALS Group, USA

Date: 02-Nov-18

Client: HRL Compliance Solutions, Inc
Project: Terra Energy - RGU 33-24 Spill
Sample ID: Spoils
Collection Date: 10/26/2018 10:51 AM

Work Order: 18101838
Lab ID: 18101838-04
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015M		Prep: SW3546 / 10/30/18		Analyst: RP
DRO (C10-C28)	460		3.2	5.7	mg/Kg-dry	1	10/30/2018 22:00
Surr: 4-Terphenyl-d14	84.4			33-111	%REC	1	10/30/2018 22:00
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW5035 / 10/29/18		Analyst: RP
GRO (C6-C10)	660		2.7	6.5	mg/Kg	1	10/30/2018 05:12
Surr: Toluene-d8	105			71-123	%REC	1	10/30/2018 05:12
MERCURY BY CVAA							
			Method: SW7471B		Prep: SW7471 / 10/29/18		Analyst: RSH
Mercury	0.025		0.0020	0.020	mg/Kg-dry	1	10/30/2018 14:10
METALS ANALYSIS BY ICP							
			Method: SW846 6010C		Prep: SW3050B / 10/29/18		Analyst: ABL
Arsenic	4.6		0.099	0.38	mg/Kg-dry	1	10/31/2018 03:18
Barium	1,100		0.15	0.38	mg/Kg-dry	1	10/31/2018 03:18
Cadmium	0.074	J	0.037	0.76	mg/Kg-dry	1	10/31/2018 03:18
Chromium	29		0.021	0.38	mg/Kg-dry	1	10/31/2018 03:18
Copper	16		0.17	0.76	mg/Kg-dry	1	10/31/2018 03:18
Lead	7.3		0.081	0.38	mg/Kg-dry	1	10/31/2018 14:34
Nickel	14		0.15	0.38	mg/Kg-dry	1	10/31/2018 03:18
Selenium	0.35	J	0.21	0.76	mg/Kg-dry	1	10/31/2018 03:18
Silver	U		0.047	0.38	mg/Kg-dry	1	10/31/2018 03:18
Zinc	43		0.061	0.76	mg/Kg-dry	1	10/31/2018 03:18
SOLUBLE CATIONS FOR SAR							
			Method: SW6020A		Prep: USDA Method 20B / 10/31/18		Analyst: STP
Calcium	610		0.86	5.0	mg/L	10	11/1/2018
Magnesium	170		0.068	2.0	mg/L	10	11/1/2018
Sodium	1,300		0.34	2.0	mg/L	10	11/1/2018
SODIUM ADSORPTION RATIO							
			Method: USDA H60 METHOD 2		Prep: USDA Method 20B / 10/31/18		Analyst: STP
Sodium Adsorption Ratio	12		0.010	0.010	none	1	10/31/2018
SEMI-VOLATILE ORGANIC COMPOUNDS							
			Method: SW846 8270D		Prep: SW3546 / 10/30/18		Analyst: KAW
Acenaphthene	U		5.5	7.6	µg/Kg-dry	1	10/30/2018 17:18
Anthracene	U		5.4	7.6	µg/Kg-dry	1	10/30/2018 17:18
Benzo(a)anthracene	U		6.6	7.6	µg/Kg-dry	1	10/30/2018 17:18
Benzo(a)pyrene	U		4.7	7.6	µg/Kg-dry	1	10/30/2018 17:18
Benzo(b)fluoranthene	U		5.7	7.6	µg/Kg-dry	1	10/30/2018 17:18
Benzo(k)fluoranthene	U		5.8	7.6	µg/Kg-dry	1	10/30/2018 17:18
Chrysene	U		6.1	7.6	µg/Kg-dry	1	10/30/2018 17:18
Dibenzo(a,h)anthracene	U		4.1	7.6	µg/Kg-dry	1	10/30/2018 17:18
Fluoranthene	U		3.6	7.6	µg/Kg-dry	1	10/30/2018 17:18

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

PRELIMINARY

ALS Group, USA

Date: 02-Nov-18

Client: HRL Compliance Solutions, Inc
Project: Terra Energy - RGU 33-24 Spill
Sample ID: Spoils
Collection Date: 10/26/2018 10:51 AM

Work Order: 18101838
Lab ID: 18101838-04
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	260		5.5	7.6	µg/Kg-dry	1	10/30/2018 17:18
Indeno(1,2,3-cd)pyrene	U		5.3	7.6	µg/Kg-dry	1	10/30/2018 17:18
Naphthalene	1,000		4.9	7.6	µg/Kg-dry	1	10/30/2018 17:18
Pyrene	U		1.4	7.6	µg/Kg-dry	1	10/30/2018 17:18
Surr: 2-Fluorobiphenyl	64.7			44-107	%REC	1	10/30/2018 17:18
Surr: 4-Terphenyl-d14	79.8			52-123	%REC	1	10/30/2018 17:18
Surr: Nitrobenzene-d5	59.3			41-94	%REC	1	10/30/2018 17:18
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C		Prep: SW5035 / 10/29/18		Analyst: WH
Benzene	0.033	J	0.0067	0.039	mg/Kg	1	10/29/2018 18:06
Ethylbenzene	1.1		0.0082	0.039	mg/Kg	1	10/29/2018 18:06
m,p-Xylene	19		0.057	0.24	mg/Kg	4	10/30/2018 14:58
o-Xylene	3.6		0.015	0.039	mg/Kg	1	10/29/2018 18:06
Toluene	1.9		0.011	0.039	mg/Kg	1	10/29/2018 18:06
Xylenes, Total	23		0.10	0.36	mg/Kg	4	10/30/2018 14:58
Surr: 1,2-Dichloroethane-d4	99.6			70-130	%REC	1	10/29/2018 18:06
Surr: 1,2-Dichloroethane-d4	98.4			70-130	%REC	4	10/30/2018 14:58
Surr: 4-Bromofluorobenzene	113			70-130	%REC	1	10/29/2018 18:06
Surr: 4-Bromofluorobenzene	112			70-130	%REC	4	10/30/2018 14:58
Surr: Dibromofluoromethane	97.8			70-130	%REC	1	10/29/2018 18:06
Surr: Dibromofluoromethane	91.1			70-130	%REC	4	10/30/2018 14:58
Surr: Toluene-d8	106			70-130	%REC	1	10/29/2018 18:06
Surr: Toluene-d8	98.4			70-130	%REC	4	10/30/2018 14:58
ELECTRICAL CONDUCTIVITY (SAR)			Method: USDA H60 METHOD 2		Prep: USDA Method 20B / 10/31/18		Analyst: JB
Electrical Conductivity @ Saturation	12		0.011	0.10	mmhos/cm @25°	20	11/1/2018 20:00
CHROMIUM, TRIVALENT			Method: CALCULATION				Analyst: JB
Chromium, Trivalent	29		0.36	1.2	mg/Kg-dry	1	10/31/2018 13:30
CHROMIUM, HEXAVALENT			Method: SW7196A		Prep: SW3060A / 10/30/18		Analyst: JEB
Chromium, Hexavalent	U		0.36	1.2	mg/Kg-dry	1	10/31/2018 10:10
MOISTURE			Method: SW3550C				Analyst: RBS
Moisture	13		0.025	0.050	% of sample	1	10/31/2018 16:58
PH			Method: SW9045D		Prep: EXTRACT / 10/31/18		Analyst: RZM
pH	8.38		0.10	0.100	s.u.	1	10/31/2018 13:55

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

PRELIMINARY

ALS Group, USA**Date:** 02-Nov-18

Client: HRL Compliance Solutions, Inc
Project: Terra Energy - RGU 33-24 Spill
Sample ID: BKGD 1
Collection Date: 10/26/2018 11:04 AM

Work Order: 18101838
Lab ID: 18101838-05
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>							
METALS ANALYSIS BY ICP			Method: SW846 6010C		Prep: SW3050B / 10/29/18		Analyst: ABL
Arsenic	4.9		0.10	0.39	mg/Kg-dry	1	10/31/2018 03:24
MOISTURE			Method: SW3550C				Analyst: RBS
Moisture	14		0.025	0.050	% of sample	1	10/31/2018 16:58

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

PRELIMINARY

ALS Group, USA

Date: 02-Nov-18

Client: HRL Compliance Solutions, Inc
Project: Terra Energy - RGU 33-24 Spill
Sample ID: BKGD 2
Collection Date: 10/26/2018 11:10 AM

Work Order: 18101838
Lab ID: 18101838-06
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS ANALYSIS BY ICP							
Arsenic	3.0		0.099	0.38	mg/Kg-dry	1	10/31/2018 03:31
MOISTURE							
Moisture	13		0.025	0.050	% of sample	1	10/31/2018 16:58

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

PRELIMINARY

ALS Group, USA

Date: 02-Nov-18

Client: HRL Compliance Solutions, Inc
Project: Terra Energy - RGU 33-24 Spill
Sample ID: BKGD 3
Collection Date: 10/26/2018 11:17 AM

Work Order: 18101838
Lab ID: 18101838-07
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS ANALYSIS BY ICP							
Arsenic	5.8		0.11	0.40	mg/Kg-dry	1	10/31/2018 03:37
SOLUBLE CATIONS FOR SAR							
Calcium	270		0.86	5.0	mg/L	10	11/1/2018 00:02
Magnesium	42		0.068	2.0	mg/L	10	11/1/2018 00:02
Sodium	24		0.34	2.0	mg/L	10	11/1/2018 00:02
SODIUM ADSORPTION RATIO							
Sodium Adsorption Ratio	0.36		0.010	0.010	none	1	10/31/2018
ELECTRICAL CONDUCTIVITY (SAR)							
Electrical Conductivity @ Saturation	1.6		0.011	0.10	mmhos/cm @25°	20	11/1/2018 20:00
MOISTURE							
Moisture	16		0.025	0.050	% of sample	1	10/31/2018 16:58
PH							
pH	8.46		0.10	0.100	s.u.	1	10/31/2018 13:55

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

PRELIMINARY