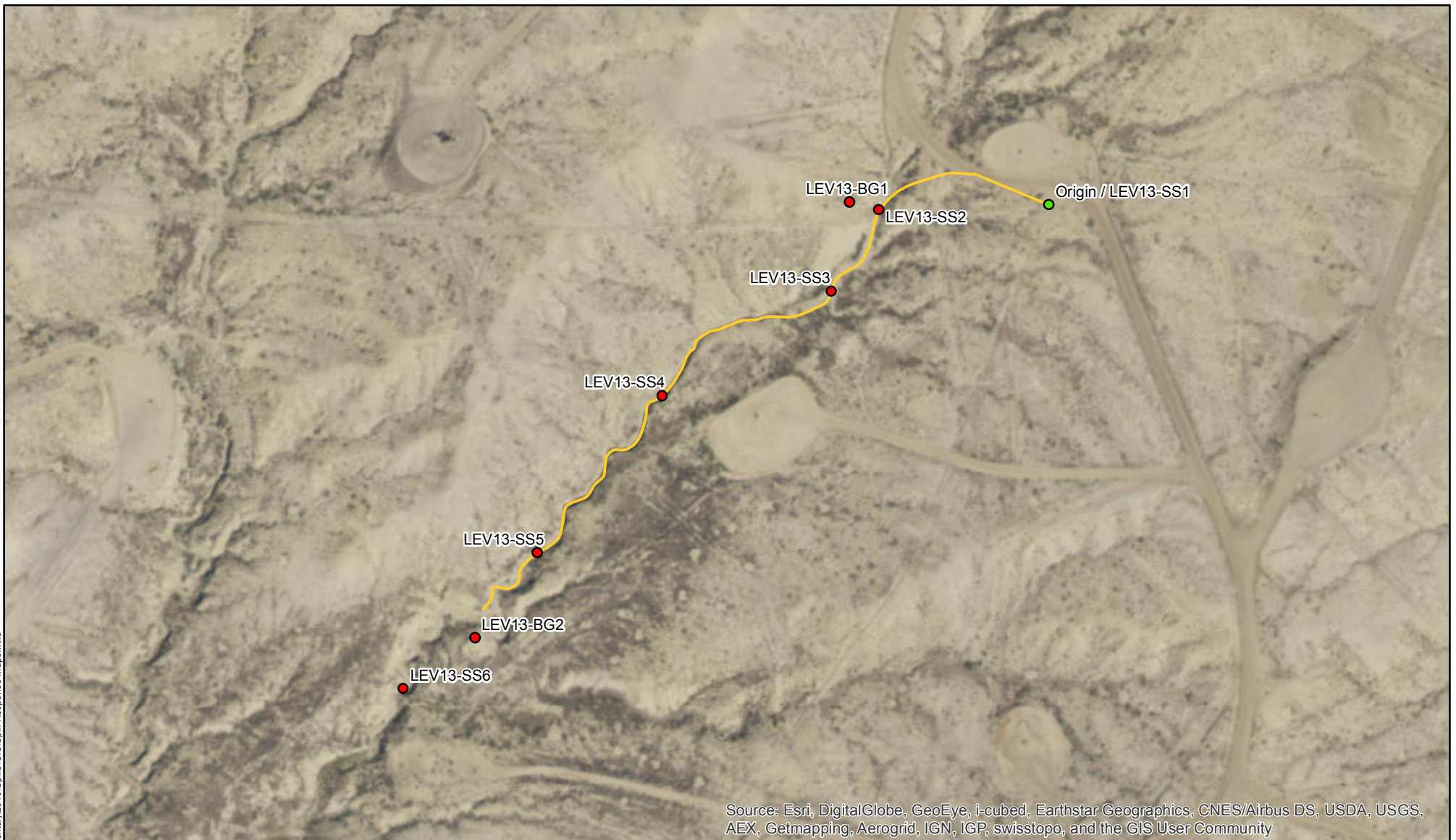


F:\Projects\013-3287(Chevron - Rangely Environmental)\2016\Spills\GIS\Spill Response Maps.mxd



Legend

- Spill Origin
- Other Soil Sample Location
- Spill Path

DISCLAIMER : This Geographic Information System (GIS) and its components are designed as a source of reference for answering inquiries, for planning and for modeling. GIS is not intended, nor does it replace legal description information in the chain of title and other information contained in official government records such as the County Clerk and Records office or the courts. In addition, the representations of locations in this GIS cannot be substituted for actual legal surveys.



Project Number: 018-065

Drawn By: TPD

Revision Date: 4/9/2021

**Levison 13
Spill Response**
Chevron USA, Inc
Rio Blanco County, Colorado
ENE S27, NWNW S26 T2N R102W



330 Grand Ave., Suite C
Grand Junction, CO 81501
P: 970.549.1015

Figure

1

Table 1
Levison 13
Soil Data Summary

SAMPLE SUMMARY	
Location Description	Chevron Levison 13 Spill
Sample Type	Soil

LABORATORY DATA SUMMARY												
Sample ID	LEV13-SS1	LEV13-SS1	LEV13-SS2	LEV13-SS3	LEV13-SS4	LEV13-SS4	LEV13-SS5	LEV13-SS6	LEV13-BG1	LEV13-BG2	COGCC TABLE 910-1 CONCENTRATION LEVELS	UNITS
Depth	0-6"	0-6"	0-6"	0-6"	0-6"	0-6"	0-6"	0-6"	0-6"	0-6"		
Sample Date	10/5/2016	4/1/2021	10/5/2016	10/5/2016	10/5/2016	4/1/2021	10/5/2016	10/5/2016	10/5/2016	10/5/2016		
Analytical Parameters												
TPH												
TPH Gasoline Range Organics	<3.2	NT	<3.3	<3.3	<3.7	NT	<3.0	<3.4	NT	NT	500	mg/kg
TPH Diesel Range Organics	49	NT	25	33	23	NT	30	26	NT	NT		
BTEX												
Benzene	<0.038	NT	<0.040	<0.040	<0.044	NT	<0.036	<0.041	NT	NT	0.17	mg/kg
Toluene	<0.038	NT	<0.040	<0.040	<0.044	NT	<0.036	<0.041	NT	NT	85	mg/kg
Ethylbenzene	<0.038	NT	<0.040	<0.040	<0.044	NT	<0.036	<0.041	NT	NT	100	mg/kg
Total Xylene	<0.11	NT	<0.12	<0.12	<0.13	NT	<0.11	<0.12	NT	NT	175	mg/kg
Metals												
Arsenic	8.5	NT	9.9	8.3	13	NT	13	10	12	10	0.39	mg/kg
Barium	130	NT	220	160	54	NT	180	170	57	NT	15,000	mg/kg
Cadmium	0.40	NT	<0.37	<0.39	<0.40	NT	<0.43	<0.46	<0.41	NT	70	mg/kg
Chromium	11	NT	5.9	6.7	11	NT	7.2	7.7	9.3	NT	NA	mg/kg
Copper	15	NT	8.0	7.6	17	NT	9.4	10	11	NT	3,100	mg/kg
Lead	16	NT	11	10	19	NT	11	12	10	NT	400	mg/kg
Mercury	0.023	NT	0.016	0.020	0.067	NT	0.017	0.016	0.028	NT	23	mg/kg
Nickel	22	NT	17	15	29	NT	18	20	25	NT	1,600	mg/kg
Selenium	1.4	NT	1.2	<0.78	2.500	NT	1.4	1.3	1.2	NT	390	mg/kg
Silver	<0.36	NT	<0.37	<0.39	<0.40	NT	<0.43	<0.46	<0.41	NT	390	mg/kg
Zinc	85	NT	64	66	95	NT	66	77	63	NT	23,000	mg/kg
SAR Metals Analysis												
Calcium	630	NT	510	870	560	150	760	800	95	NT	NA	mg/L
Magnesium	160	NT	65	88	300	24	96	100	4.3	NT	NA	mg/L
Sodium	1200	NT	240	200	2700	8.5	220	200	<2.0	NT	NA	mg/L
Sodium Adsorption Ratio	11	NT	2.7	1.70	23	0.17	2.0	1.8	0.050	NT	<12	ratio
Polynuclear Aromatic Hyrdrocarbons												
Acenaphthene	<0.0075	NT	<0.0076	<0.0076	<0.0078	<0.0083	<0.0070	<0.0078	NT	NT	1,000	mg/kg
Anthracene	<0.0075	NT	<0.0076	<0.0076	<0.0078	<0.0088	<0.0070	<0.0078	NT	NT	1,000	mg/kg
Benzo(a)anthracene	<0.0075	NT	<0.0076	<0.0076	<0.0078	<0.0094	<0.0070	<0.0078	NT	NT	0.22	mg/kg
Benzo(a)pyrene	<0.0075	NT	<0.0076	<0.0076	0.027	<0.0078	<0.0070	<0.0078	NT	NT	0.022	mg/kg
Benzo(b)fluoranthene	<0.0075	NT	<0.0076	<0.0076	0.038	<0.0083	<0.0070	<0.0078	NT	NT	0.22	mg/kg
Benzo(k)fluoranthene	<0.0075	NT	<0.0076	<0.0076	<0.0078	<0.0080	<0.0070	<0.0078	NT	NT	2.2	mg/kg
Chrysene	<0.0075	NT	<0.0076	<0.0076	<0.0078	<0.0089	<0.0070	<0.0078	NT	NT	22	mg/kg
Dibenzo(a,h)anthracene	<0.0075	NT	<0.0076	<0.0076	<0.0078	<0.0079	<0.0070	<0.0078	NT	NT	0.022	mg/kg
Fluoranthene	<0.0075	NT	<0.0076	<0.0076	0.033	<0.0077	<0.0070	<0.0078	NT	NT	1,000	mg/kg
Fluorene	<0.0075	NT	<0.0076	<0.0076	<0.0078	<0.0076	<0.0070	<0.0078	NT	NT	1,000	mg/kg
Indeno(1,2,3-cd)pyrene	<0.0075	NT	<0.0076	<0.0076	<0.0078	<0.0085	<0.0070	<0.0078	NT	NT	0.22	mg/kg
Napthalene	<0.0075	NT	<0.0076	<0.0076	<0.0078	<0.0094	<0.0070	<0.0078	NT	NT	23	mg/kg
Pyrene	<0.0075	NT	<0.0076	<0.0076	0.026	<0.0093	0.014	0.015	NT	NT	1,000	mg/kg
General Chemistry												
Chromium, Hexavalent	<1.1	NT	<1.1	<1.2	<1.2	NT	<1.1	<1.1	<1.1	NT	23	mg/kg
Chromium, Trivalent	11	NT	5.9	6.7	11	NT	7.2	7.2	9.3	NT	120,000	mg/kg
Specific Conductivity	11	1.4	6.8	5.8	17	0.95	5.7	5.6	4.5	NT	<4 or 2 x the background	mmhos/cm
pH	7.8	NT	7.9	7.8	7.9	NT	7.9	8.0	7.8	NT	6-9	su

mg/kg - milligrams per kilogram
mg/L - milligrams per liter
J - indicates an estimated value
mmhos/cm - millimhos per centimeter
mv - millivolts
su - standard units
NA - not applicable
NT - parameter was not tested

Over COGCC Table 910-1 concentration levels but under BACKGROUND level.

Over COGCC Table 910-1 concentration levels and not within BACKGROUND level.

Over COGCC Table 910-1 concentration levels



26-Oct-2016

Tim Dobransky
Olsson Associates
760 Horizon Drive
Suite 102
Grand Junction, CO 81506

Re: **Levison 13 Spill**

Work Order: **1610636**

Dear Tim,

ALS Environmental received 8 samples on 11-Oct-2016 09:30 AM for the analyses presented in the following report.

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

Sample results are compliant with NELAP standard requirements and QC 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 35.

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

Sincerely,

A handwritten signature in black ink, appearing to read "Chad Whelton".

Electronically approved by: Chad Whelton

Chad Whelton
Project Manager



Certificate No: MN 998501

Report of Laboratory Analysis

ADDRESS 3352 128th Avenue Holland, Michigan 49424-9263 | PHONE (616) 399-6070 | FAX (616) 399-6185

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

Environmental 

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: Olsson Associates
Project: Levison 13 Spill
Work Order: 1610636

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>
1610636-01	LEV 13 - SS1	Soil		10/5/2016 10:45	10/11/2016 09:30	<input type="checkbox"/>
1610636-02	LEV 13 - SS2	Soil		10/5/2016 11:10	10/11/2016 09:30	<input type="checkbox"/>
1610636-03	LEV 13 - BG1	Soil		10/5/2016 11:20	10/11/2016 09:30	<input type="checkbox"/>
1610636-04	LEV 13 - SS3	Soil		10/5/2016 11:30	10/11/2016 09:30	<input type="checkbox"/>
1610636-05	LEV 13 - SS4	Soil		10/5/2016 12:00	10/11/2016 09:30	<input type="checkbox"/>
1610636-06	LEV 13 - SS5	Soil		10/5/2016 12:20	10/11/2016 09:30	<input type="checkbox"/>
1610636-07	LEV 13 - SS6	Soil		10/5/2016 12:35	10/11/2016 09:30	<input type="checkbox"/>
1610636-08	LEV 13 - BG2	Soil		10/5/2016 12:45	10/11/2016 09:30	<input type="checkbox"/>

Client: Olsson Associates
Project: Levison 13 Spill
Work Order: 1610636

Case Narrative

Batch 92936, Method CR6_7196_S, Sample 1610636-06A MS/MSD: The MS and MSD recovery was below the lower control limit for Hexavalent Chromium. The corresponding result in the parent sample may be biased low.

Batch 93108, Method ICP_6010_S, Sample 1610636-08A MS/MSD: The MS and MSD recovery was above the upper control limit for Chromium. The corresponding result in the parent sample may be biased high.

Batch 93108, Method ICP_6010_S, Sample 1610636-08A MS/MSD: The MS and MSD recoveries were outside of the control limits for Barium and Zinc; however, the results in the parent sample are greater than 4x the spike amount. No qualification is required.

Batch 93108, Method ICP_6010_S, Sample 1610636-08A MSD: The MSD recovery was outside of the control limit for Arsenic. However, the MS recovery and the RPD between the MS and MSD was in control. No qualification is required.

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

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

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

ALS Group USA, Corp

Date: 26-Oct-16

Client: Olsson Associates
Project: Levison 13 Spill
Sample ID: LEV 13 - SS1
Collection Date: 10/5/2016 10:45 AM

Work Order: 1610636
Lab ID: 1610636-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
			SW8015M		Prep: SW3546 / 10/18/16	Analyst: IT
DRO (C10-C28)	49		5.6	mg/Kg-dry	1	10/20/2016 07:13 AM
<i>Surr: 4-Terphenyl-d14</i>	<i>47.4</i>		<i>39-133</i>	<i>%REC</i>	<i>1</i>	10/20/2016 07:13 AM
GASOLINE RANGE ORGANICS BY GC-FID						
			SW8015D		Prep: SW5035 / 10/12/16	Analyst: IT
GRO (C6-C10)	ND		3.2	mg/Kg-dry	1	10/12/2016 11:57 PM
<i>Surr: Toluene-d8</i>	<i>101</i>		<i>50-150</i>	<i>%REC</i>	<i>1</i>	10/12/2016 11:57 PM
MERCURY BY CVAA						
			SW7471B		Prep: SW7471 / 10/24/16	Analyst: LR
Mercury	0.023		0.015	mg/Kg-dry	1	10/24/2016 04:05 PM
METALS ANALYSIS BY ICP						
			SW846 6010C		Prep: SW3050B / 10/18/16	Analyst: RH
Arsenic	8.5		0.36	mg/Kg-dry	1	10/20/2016 07:45 PM
Barium	130		0.36	mg/Kg-dry	1	10/20/2016 07:45 PM
Cadmium	0.40		0.36	mg/Kg-dry	1	10/20/2016 07:45 PM
Chromium	11		0.36	mg/Kg-dry	1	10/20/2016 07:45 PM
Copper	15		0.36	mg/Kg-dry	1	10/20/2016 07:45 PM
Lead	16		0.36	mg/Kg-dry	1	10/20/2016 07:45 PM
Nickel	22		0.36	mg/Kg-dry	1	10/20/2016 07:45 PM
Selenium	1.4		0.72	mg/Kg-dry	1	10/20/2016 07:45 PM
Silver	ND		0.36	mg/Kg-dry	1	10/20/2016 07:45 PM
Zinc	85		0.72	mg/Kg-dry	1	10/20/2016 07:45 PM
SOLUBLE CATIONS FOR SAR						
			SW846 6010C		Prep: USDA Method 20B / 10/21/16	Analyst: RH
Calcium	630		5.0	mg/L	10	10/21/2016 10:25 PM
Magnesium	160		2.0	mg/L	10	10/21/2016 10:25 PM
Sodium	1,200		2.0	mg/L	10	10/21/2016 10:25 PM
SODIUM ADSORPTION RATIO						
			USDA H60 METHO		Prep: USDA Method 20B / 10/21/16	Analyst: RH
Sodium Adsorption Ratio	11		0.010	none	1	10/21/2016
SEMI-VOLATILE ORGANIC COMPOUNDS						
			SW846 8270D		Prep: SW3546 / 10/18/16	Analyst: RS
Acenaphthene	ND		0.0075	mg/Kg-dry	1	10/18/2016 10:38 PM
Anthracene	ND		0.0075	mg/Kg-dry	1	10/18/2016 10:38 PM
Benzo(a)anthracene	ND		0.0075	mg/Kg-dry	1	10/18/2016 10:38 PM
Benzo(a)pyrene	ND		0.0075	mg/Kg-dry	1	10/18/2016 10:38 PM
Benzo(b)fluoranthene	ND		0.0075	mg/Kg-dry	1	10/18/2016 10:38 PM
Benzo(k)fluoranthene	ND		0.0075	mg/Kg-dry	1	10/18/2016 10:38 PM
Chrysene	ND		0.0075	mg/Kg-dry	1	10/18/2016 10:38 PM
Dibenzo(a,h)anthracene	ND		0.0075	mg/Kg-dry	1	10/18/2016 10:38 PM
Fluoranthene	ND		0.0075	mg/Kg-dry	1	10/18/2016 10:38 PM

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

ALS Group USA, Corp

Date: 26-Oct-16

Client: Olsson Associates
Project: Levison 13 Spill
Sample ID: LEV 13 - SS1
Collection Date: 10/5/2016 10:45 AM

Work Order: 1610636
Lab ID: 1610636-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	ND		0.0075	mg/Kg-dry	1	10/18/2016 10:38 PM
Indeno(1,2,3-cd)pyrene	ND		0.0075	mg/Kg-dry	1	10/18/2016 10:38 PM
Naphthalene	ND		0.0075	mg/Kg-dry	1	10/18/2016 10:38 PM
Pyrene	ND		0.0075	mg/Kg-dry	1	10/18/2016 10:38 PM
Surr: 2-Fluorobiphenyl	70.9		12-100	%REC	1	10/18/2016 10:38 PM
Surr: 4-Terphenyl-d14	76.9		25-137	%REC	1	10/18/2016 10:38 PM
Surr: Nitrobenzene-d5	73.6		37-107	%REC	1	10/18/2016 10:38 PM
VOLATILE ORGANIC COMPOUNDS			SW8260B	Prep: SW5035 / 10/12/16		Analyst: BG
Benzene	ND		0.038	mg/Kg-dry	1	10/14/2016 04:48 AM
Ethylbenzene	ND		0.038	mg/Kg-dry	1	10/14/2016 04:48 AM
m,p-Xylene	ND		0.076	mg/Kg-dry	1	10/14/2016 04:48 AM
o-Xylene	ND		0.038	mg/Kg-dry	1	10/14/2016 04:48 AM
Toluene	ND		0.038	mg/Kg-dry	1	10/14/2016 04:48 AM
Xylenes, Total	ND		0.11	mg/Kg-dry	1	10/14/2016 04:48 AM
Surr: 1,2-Dichloroethane-d4	103		70-130	%REC	1	10/14/2016 04:48 AM
Surr: 4-Bromofluorobenzene	100		70-130	%REC	1	10/14/2016 04:48 AM
Surr: Dibromofluoromethane	86.0		70-130	%REC	1	10/14/2016 04:48 AM
Surr: Toluene-d8	102		70-130	%REC	1	10/14/2016 04:48 AM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO	Prep: USDA Method 20B / 10/21/16		Analyst: JB
Electrical Conductivity @ Saturation	11		0.25	mmhos/cm @2	50	10/22/2016 12:15 PM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: MB
Chromium, Trivalent	11		0.57	mg/Kg-dry	1	10/21/2016 10:00 AM
CHROMIUM, HEXAVALENT			SW7196A	Prep: SW3060A / 10/14/16		Analyst: MB
Chromium, Hexavalent	ND		1.1	mg/Kg-dry	1	10/17/2016 02:00 PM
MOISTURE			SW3550C			Analyst: EDL
Moisture	12		0.050	% of sample	1	10/14/2016 06:03 PM
PH			SW9045D	Prep: EXTRACT / 10/12/16		Analyst: KF
pH	7.8			s.u.	1	10/12/2016 12:59 PM

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

ALS Group USA, Corp

Date: 26-Oct-16

Client: Olsson Associates
Project: Levison 13 Spill
Sample ID: LEV 13 - SS2
Collection Date: 10/5/2016 11:10 AM

Work Order: 1610636
Lab ID: 1610636-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
			SW8015M		Prep: SW3546 / 10/18/16	Analyst: IT
DRO (C10-C28)	25		5.7	mg/Kg-dry	1	10/20/2016 08:13 AM
Surr: 4-Terphenyl-d14	51.2		39-133	%REC	1	10/20/2016 08:13 AM
GASOLINE RANGE ORGANICS BY GC-FID						
			SW8015D		Prep: SW5035 / 10/12/16	Analyst: IT
GRO (C6-C10)	ND		3.3	mg/Kg-dry	1	10/13/2016 12:22 PM
Surr: Toluene-d8	100		50-150	%REC	1	10/13/2016 12:22 PM
MERCURY BY CVAA						
			SW7471B		Prep: SW7471 / 10/24/16	Analyst: LR
Mercury	0.016	J	0.016	mg/Kg-dry	1	10/24/2016 04:08 PM
METALS ANALYSIS BY ICP						
			SW846 6010C		Prep: SW3050B / 10/18/16	Analyst: RH
Arsenic	9.9		0.37	mg/Kg-dry	1	10/20/2016 07:50 PM
Barium	220		0.37	mg/Kg-dry	1	10/20/2016 07:50 PM
Cadmium	ND		0.37	mg/Kg-dry	1	10/20/2016 07:50 PM
Chromium	5.9		0.37	mg/Kg-dry	1	10/20/2016 07:50 PM
Copper	8.0		0.37	mg/Kg-dry	1	10/20/2016 07:50 PM
Lead	11		0.37	mg/Kg-dry	1	10/20/2016 07:50 PM
Nickel	17		0.37	mg/Kg-dry	1	10/20/2016 07:50 PM
Selenium	1.2		0.74	mg/Kg-dry	1	10/21/2016 04:19 PM
Silver	ND		0.37	mg/Kg-dry	1	10/20/2016 07:50 PM
Zinc	64		0.74	mg/Kg-dry	1	10/20/2016 07:50 PM
SOLUBLE CATIONS FOR SAR						
			SW846 6010C		Prep: USDA Method 20B / 10/21/16	Analyst: RH
Calcium	510		5.0	mg/L	10	10/21/2016 10:36 PM
Magnesium	65		2.0	mg/L	10	10/21/2016 10:36 PM
Sodium	240		2.0	mg/L	10	10/21/2016 10:36 PM
SODIUM ADSORPTION RATIO						
			USDA H60 METHO		Prep: USDA Method 20B / 10/21/16	Analyst: RH
Sodium Adsorption Ratio	2.7		0.010	none	1	10/21/2016
SEMI-VOLATILE ORGANIC COMPOUNDS						
			SW846 8270D		Prep: SW3546 / 10/18/16	Analyst: JF
Acenaphthene	ND		0.0076	mg/Kg-dry	1	10/20/2016 08:15 PM
Anthracene	ND		0.0076	mg/Kg-dry	1	10/20/2016 08:15 PM
Benzo(a)anthracene	ND		0.0076	mg/Kg-dry	1	10/20/2016 08:15 PM
Benzo(a)pyrene	ND		0.0076	mg/Kg-dry	1	10/20/2016 08:15 PM
Benzo(b)fluoranthene	ND		0.0076	mg/Kg-dry	1	10/20/2016 08:15 PM
Benzo(k)fluoranthene	ND		0.0076	mg/Kg-dry	1	10/20/2016 08:15 PM
Chrysene	ND		0.0076	mg/Kg-dry	1	10/20/2016 08:15 PM
Dibenzo(a,h)anthracene	ND		0.0076	mg/Kg-dry	1	10/20/2016 08:15 PM
Fluoranthene	ND		0.0076	mg/Kg-dry	1	10/20/2016 08:15 PM

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

ALS Group USA, Corp

Date: 26-Oct-16

Client: Olsson Associates
Project: Levison 13 Spill
Sample ID: LEV 13 - SS2
Collection Date: 10/5/2016 11:10 AM

Work Order: 1610636
Lab ID: 1610636-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	ND		0.0076	mg/Kg-dry	1	10/20/2016 08:15 PM
Indeno(1,2,3-cd)pyrene	ND		0.0076	mg/Kg-dry	1	10/20/2016 08:15 PM
Naphthalene	ND		0.0076	mg/Kg-dry	1	10/20/2016 08:15 PM
Pyrene	ND		0.0076	mg/Kg-dry	1	10/20/2016 08:15 PM
Surr: 2-Fluorobiphenyl	79.9		12-100	%REC	1	10/20/2016 08:15 PM
Surr: 4-Terphenyl-d14	81.7		25-137	%REC	1	10/20/2016 08:15 PM
Surr: Nitrobenzene-d5	74.8		37-107	%REC	1	10/20/2016 08:15 PM
VOLATILE ORGANIC COMPOUNDS			SW8260B	Prep: SW5035 / 10/12/16 Analyst: LSY		
Benzene	ND		0.040	mg/Kg-dry	1	10/16/2016 04:53 PM
Ethylbenzene	ND		0.040	mg/Kg-dry	1	10/16/2016 04:53 PM
m,p-Xylene	ND		0.080	mg/Kg-dry	1	10/16/2016 04:53 PM
o-Xylene	ND		0.040	mg/Kg-dry	1	10/16/2016 04:53 PM
Toluene	ND		0.040	mg/Kg-dry	1	10/16/2016 04:53 PM
Xylenes, Total	ND		0.12	mg/Kg-dry	1	10/16/2016 04:53 PM
Surr: 1,2-Dichloroethane-d4	103		70-130	%REC	1	10/16/2016 04:53 PM
Surr: 4-Bromofluorobenzene	90.1		70-130	%REC	1	10/16/2016 04:53 PM
Surr: Dibromofluoromethane	95.0		70-130	%REC	1	10/16/2016 04:53 PM
Surr: Toluene-d8	99.4		70-130	%REC	1	10/16/2016 04:53 PM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO	Prep: USDA Method 20B / 10/21/16 Analyst: JB		
Electrical Conductivity @ Saturation	6.8		0.25	mmhos/cm @2	50	10/22/2016 12:15 PM
CHROMIUM, TRIVALENT			CALCULATION	Analyst: MB		
Chromium, Trivalent	5.9		0.58	mg/Kg-dry	1	10/21/2016 10:00 AM
CHROMIUM, HEXAVALENT			SW7196A	Prep: SW3060A / 10/14/16 Analyst: MB		
Chromium, Hexavalent	ND		1.1	mg/Kg-dry	1	10/17/2016 02:00 PM
MOISTURE			SW3550C	Analyst: EDL		
Moisture	14		0.050	% of sample	1	10/14/2016 06:03 PM
PH			SW9045D	Prep: EXTRACT / 10/12/16 Analyst: KF		
pH	7.9			s.u.	1	10/12/2016 12:59 PM

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

ALS Group USA, Corp

Date: 26-Oct-16

Client: Olsson Associates
Project: Levison 13 Spill
Sample ID: LEV 13 - BG1
Collection Date: 10/5/2016 11:20 AM

Work Order: 1610636
Lab ID: 1610636-03
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA						
Mercury	0.028		SW7471B 0.016	mg/Kg-dry	Prep: SW7471 / 10/24/16 1	Analyst: LR 10/24/2016 04:18 PM
METALS ANALYSIS BY ICP						
Arsenic	12		SW846 6010C 0.41	mg/Kg-dry	Prep: SW3050B / 10/18/16 1	Analyst: RH 10/20/2016 07:56 PM
Barium	57		0.41	mg/Kg-dry	1	10/20/2016 07:56 PM
Cadmium	ND		0.41	mg/Kg-dry	1	10/20/2016 07:56 PM
Chromium	9.3		0.41	mg/Kg-dry	1	10/20/2016 07:56 PM
Copper	11		0.41	mg/Kg-dry	1	10/20/2016 07:56 PM
Lead	10		0.41	mg/Kg-dry	1	10/20/2016 07:56 PM
Nickel	25		0.41	mg/Kg-dry	1	10/20/2016 07:56 PM
Selenium	1.2		0.82	mg/Kg-dry	1	10/20/2016 07:56 PM
Silver	ND		0.41	mg/Kg-dry	1	10/20/2016 07:56 PM
Zinc	63		0.82	mg/Kg-dry	1	10/20/2016 07:56 PM
SOLUBLE CATIONS FOR SAR						
Calcium	95		SW846 6010C 5.0	mg/L	Prep: USDA Method 20B / 10/21/16 10	Analyst: RH 10/21/2016 10:42 PM
Magnesium	4.3		2.0	mg/L	10	10/21/2016 10:42 PM
Sodium	ND		2.0	mg/L	10	10/21/2016 10:42 PM
SODIUM ADSORPTION RATIO						
Sodium Adsorption Ratio	0.050		USDA H60 METHO 0.010	none	Prep: USDA Method 20B / 10/21/16 1	Analyst: RH 10/21/2016
ELECTRICAL CONDUCTIVITY (SAR)						
Electrical Conductivity @ Saturation	4.5		USDA H60 METHO 0.25	mmhos/cm @2	Prep: USDA Method 20B / 10/21/16 50	Analyst: JB 10/22/2016 12:15 PM
CHROMIUM, TRIVALENT						
Chromium, Trivalent	9.3		CALCULATION 0.58	mg/Kg-dry	1	Analyst: MB 10/21/2016 10:00 AM
CHROMIUM, HEXAVALENT						
Chromium, Hexavalent	ND		SW7196A 1.1	mg/Kg-dry	Prep: SW3060A / 10/14/16 1	Analyst: MB 10/17/2016 02:00 PM
MOISTURE						
Moisture	13		SW3550C 0.050	% of sample	1	Analyst: EDL 10/14/2016 06:03 PM
PH						
pH	7.8		SW9045D	s.u.	Prep: EXTRACT / 10/12/16 1	Analyst: KF 10/12/2016 12:59 PM

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

ALS Group USA, Corp

Date: 26-Oct-16

Client: Olsson Associates
Project: Levison 13 Spill
Sample ID: LEV 13 - SS3
Collection Date: 10/5/2016 11:30 AM

Work Order: 1610636
Lab ID: 1610636-04
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
			SW8015M		Prep: SW3546 / 10/18/16	Analyst: IT
DRO (C10-C28)	33		5.7	mg/Kg-dry	1	10/20/2016 08:42 AM
Surr: 4-Terphenyl-d14	51.9		39-133	%REC	1	10/20/2016 08:42 AM
GASOLINE RANGE ORGANICS BY GC-FID						
			SW8015D		Prep: SW5035 / 10/12/16	Analyst: IT
GRO (C6-C10)	ND		3.3	mg/Kg-dry	1	10/13/2016 01:12 AM
Surr: Toluene-d8	101		50-150	%REC	1	10/13/2016 01:12 AM
MERCURY BY CVAA						
			SW7471B		Prep: SW7471 / 10/24/16	Analyst: LR
Mercury	0.020		0.018	mg/Kg-dry	1	10/24/2016 04:21 PM
METALS ANALYSIS BY ICP						
			SW846 6010C		Prep: SW3050B / 10/18/16	Analyst: RH
Arsenic	8.3		0.39	mg/Kg-dry	1	10/20/2016 08:03 PM
Barium	160		0.39	mg/Kg-dry	1	10/20/2016 08:03 PM
Cadmium	ND		0.39	mg/Kg-dry	1	10/20/2016 08:03 PM
Chromium	6.7		0.39	mg/Kg-dry	1	10/20/2016 08:03 PM
Copper	7.6		0.39	mg/Kg-dry	1	10/20/2016 08:03 PM
Lead	10		0.39	mg/Kg-dry	1	10/20/2016 08:03 PM
Nickel	15		0.39	mg/Kg-dry	1	10/20/2016 08:03 PM
Selenium	ND		0.78	mg/Kg-dry	1	10/21/2016 04:25 PM
Silver	ND		0.39	mg/Kg-dry	1	10/20/2016 08:03 PM
Zinc	66		0.78	mg/Kg-dry	1	10/20/2016 08:03 PM
SOLUBLE CATIONS FOR SAR						
			SW846 6010C		Prep: USDA Method 20B / 10/21/16	Analyst: RH
Calcium	870		5.0	mg/L	10	10/25/2016 10:45 AM
Magnesium	88		2.0	mg/L	10	10/25/2016 10:45 AM
Sodium	200		2.0	mg/L	10	10/25/2016 10:45 AM
SODIUM ADSORPTION RATIO						
			USDA H60 METHO		Prep: USDA Method 20B / 10/21/16	Analyst: RH
Sodium Adsorption Ratio	1.7		0.010	none	1	10/21/2016
SEMI-VOLATILE ORGANIC COMPOUNDS						
			SW846 8270D		Prep: SW3546 / 10/18/16	Analyst: JF
Acenaphthene	ND		0.0076	mg/Kg-dry	1	10/20/2016 08:38 PM
Anthracene	ND		0.0076	mg/Kg-dry	1	10/20/2016 08:38 PM
Benzo(a)anthracene	ND		0.0076	mg/Kg-dry	1	10/20/2016 08:38 PM
Benzo(a)pyrene	ND		0.0076	mg/Kg-dry	1	10/20/2016 08:38 PM
Benzo(b)fluoranthene	ND		0.0076	mg/Kg-dry	1	10/20/2016 08:38 PM
Benzo(k)fluoranthene	ND		0.0076	mg/Kg-dry	1	10/20/2016 08:38 PM
Chrysene	ND		0.0076	mg/Kg-dry	1	10/20/2016 08:38 PM
Dibenzo(a,h)anthracene	ND		0.0076	mg/Kg-dry	1	10/20/2016 08:38 PM
Fluoranthene	ND		0.0076	mg/Kg-dry	1	10/20/2016 08:38 PM

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

ALS Group USA, Corp

Date: 26-Oct-16

Client: Olsson Associates
Project: Levison 13 Spill
Sample ID: LEV 13 - SS3
Collection Date: 10/5/2016 11:30 AM

Work Order: 1610636
Lab ID: 1610636-04
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	ND		0.0076	mg/Kg-dry	1	10/20/2016 08:38 PM
Indeno(1,2,3-cd)pyrene	ND		0.0076	mg/Kg-dry	1	10/20/2016 08:38 PM
Naphthalene	ND		0.0076	mg/Kg-dry	1	10/20/2016 08:38 PM
Pyrene	ND		0.0076	mg/Kg-dry	1	10/20/2016 08:38 PM
Surr: 2-Fluorobiphenyl	83.1		12-100	%REC	1	10/20/2016 08:38 PM
Surr: 4-Terphenyl-d14	83.4		25-137	%REC	1	10/20/2016 08:38 PM
Surr: Nitrobenzene-d5	74.0		37-107	%REC	1	10/20/2016 08:38 PM
VOLATILE ORGANIC COMPOUNDS			SW8260B	Prep: SW5035 / 10/12/16 Analyst: LSY		
Benzene	ND		0.040	mg/Kg-dry	1	10/16/2016 05:16 PM
Ethylbenzene	ND		0.040	mg/Kg-dry	1	10/16/2016 05:16 PM
m,p-Xylene	ND		0.080	mg/Kg-dry	1	10/16/2016 05:16 PM
o-Xylene	ND		0.040	mg/Kg-dry	1	10/16/2016 05:16 PM
Toluene	ND		0.040	mg/Kg-dry	1	10/16/2016 05:16 PM
Xylenes, Total	ND		0.12	mg/Kg-dry	1	10/16/2016 05:16 PM
Surr: 1,2-Dichloroethane-d4	101		70-130	%REC	1	10/16/2016 05:16 PM
Surr: 4-Bromofluorobenzene	89.4		70-130	%REC	1	10/16/2016 05:16 PM
Surr: Dibromofluoromethane	92.2		70-130	%REC	1	10/16/2016 05:16 PM
Surr: Toluene-d8	98.0		70-130	%REC	1	10/16/2016 05:16 PM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO	Prep: USDA Method 20B / 10/21/16 Analyst: JB		
Electrical Conductivity @ Saturation	5.8		0.25	mmhos/cm @2	50	10/22/2016 12:15 PM
CHROMIUM, TRIVALENT			CALCULATION	Analyst: MB		
Chromium, Trivalent	6.7		0.58	mg/Kg-dry	1	10/21/2016 10:00 AM
CHROMIUM, HEXAVALENT			SW7196A	Prep: SW3060A / 10/14/16 Analyst: MB		
Chromium, Hexavalent	ND		1.2	mg/Kg-dry	1	10/17/2016 02:00 PM
MOISTURE			SW3550C	Analyst: EDL		
Moisture	14		0.050	% of sample	1	10/14/2016 06:03 PM
PH			SW9045D	Prep: EXTRACT / 10/12/16 Analyst: KF		
pH	7.8			s.u.	1	10/12/2016 12:59 PM

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

ALS Group USA, Corp

Date: 26-Oct-16

Client: Olsson Associates

Project: Levison 13 Spill

Sample ID: LEV 13 - SS4

Collection Date: 10/5/2016 12:00 PM

Work Order: 1610636

Lab ID: 1610636-05

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
			SW8015M		Prep: SW3546 / 10/18/16	Analyst: IT
DRO (C10-C28)	23		5.8	mg/Kg-dry	1	10/20/2016 09:12 AM
Surr: 4-Terphenyl-d14	49.1		39-133	%REC	1	10/20/2016 09:12 AM
GASOLINE RANGE ORGANICS BY GC-FID						
			SW8015D		Prep: SW5035 / 10/12/16	Analyst: IT
GRO (C6-C10)	ND		3.7	mg/Kg-dry	1	10/13/2016 02:52 AM
Surr: Toluene-d8	95.5		50-150	%REC	1	10/13/2016 02:52 AM
MERCURY BY CVAA						
			SW7471B		Prep: SW7471 / 10/24/16	Analyst: LR
Mercury	0.067		0.017	mg/Kg-dry	1	10/24/2016 04:23 PM
METALS ANALYSIS BY ICP						
			SW846 6010C		Prep: SW3050B / 10/18/16	Analyst: RH
Arsenic	13		0.40	mg/Kg-dry	1	10/20/2016 08:09 PM
Barium	54		0.40	mg/Kg-dry	1	10/20/2016 08:09 PM
Cadmium	ND		0.40	mg/Kg-dry	1	10/20/2016 08:09 PM
Chromium	11		0.40	mg/Kg-dry	1	10/20/2016 08:09 PM
Copper	17		0.40	mg/Kg-dry	1	10/20/2016 08:09 PM
Lead	19		0.40	mg/Kg-dry	1	10/20/2016 08:09 PM
Nickel	29		0.40	mg/Kg-dry	1	10/20/2016 08:09 PM
Selenium	2.5		0.79	mg/Kg-dry	1	10/20/2016 08:09 PM
Silver	ND		0.40	mg/Kg-dry	1	10/20/2016 08:09 PM
Zinc	95		0.79	mg/Kg-dry	1	10/20/2016 08:09 PM
SOLUBLE CATIONS FOR SAR						
			SW846 6010C		Prep: USDA Method 20B / 10/21/16	Analyst: RH
Calcium	560		5.0	mg/L	10	10/25/2016 10:50 AM
Magnesium	300		2.0	mg/L	10	10/25/2016 10:50 AM
Sodium	2,700		2.0	mg/L	10	10/25/2016 10:50 AM
SODIUM ADSORPTION RATIO						
			USDA H60 METHO		Prep: USDA Method 20B / 10/21/16	Analyst: RH
Sodium Adsorption Ratio	23		0.010	none	1	10/21/2016
SEMI-VOLATILE ORGANIC COMPOUNDS						
			SW846 8270D		Prep: SW3546 / 10/18/16	Analyst: JF
Acenaphthene	ND		0.0078	mg/Kg-dry	1	10/20/2016 09:01 PM
Anthracene	ND		0.0078	mg/Kg-dry	1	10/20/2016 09:01 PM
Benzo(a)anthracene	ND		0.0078	mg/Kg-dry	1	10/20/2016 09:01 PM
Benzo(a)pyrene	0.027		0.0078	mg/Kg-dry	1	10/20/2016 09:01 PM
Benzo(b)fluoranthene	0.038		0.0078	mg/Kg-dry	1	10/20/2016 09:01 PM
Benzo(k)fluoranthene	ND		0.0078	mg/Kg-dry	1	10/20/2016 09:01 PM
Chrysene	ND		0.0078	mg/Kg-dry	1	10/20/2016 09:01 PM
Dibenzo(a,h)anthracene	ND		0.0078	mg/Kg-dry	1	10/20/2016 09:01 PM
Fluoranthene	0.033		0.0078	mg/Kg-dry	1	10/20/2016 09:01 PM

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

ALS Group USA, Corp

Date: 26-Oct-16

Client: Olsson Associates

Project: Levison 13 Spill

Sample ID: LEV 13 - SS4

Collection Date: 10/5/2016 12:00 PM

Work Order: 1610636

Lab ID: 1610636-05

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	ND		0.0078	mg/Kg-dry	1	10/20/2016 09:01 PM
Indeno(1,2,3-cd)pyrene	ND		0.0078	mg/Kg-dry	1	10/20/2016 09:01 PM
Naphthalene	ND		0.0078	mg/Kg-dry	1	10/20/2016 09:01 PM
Pyrene	0.026		0.0078	mg/Kg-dry	1	10/20/2016 09:01 PM
Surr: 2-Fluorobiphenyl	74.6		12-100	%REC	1	10/20/2016 09:01 PM
Surr: 4-Terphenyl-d14	77.3		25-137	%REC	1	10/20/2016 09:01 PM
Surr: Nitrobenzene-d5	70.7		37-107	%REC	1	10/20/2016 09:01 PM
VOLATILE ORGANIC COMPOUNDS			SW8260B	Prep: SW5035 / 10/12/16 Analyst: LSY		
Benzene	ND		0.044	mg/Kg-dry	1	10/16/2016 05:40 PM
Ethylbenzene	ND		0.044	mg/Kg-dry	1	10/16/2016 05:40 PM
m,p-Xylene	ND		0.088	mg/Kg-dry	1	10/16/2016 05:40 PM
o-Xylene	ND		0.044	mg/Kg-dry	1	10/16/2016 05:40 PM
Toluene	ND		0.044	mg/Kg-dry	1	10/16/2016 05:40 PM
Xylenes, Total	ND		0.13	mg/Kg-dry	1	10/16/2016 05:40 PM
Surr: 1,2-Dichloroethane-d4	103		70-130	%REC	1	10/16/2016 05:40 PM
Surr: 4-Bromofluorobenzene	89.4		70-130	%REC	1	10/16/2016 05:40 PM
Surr: Dibromofluoromethane	92.6		70-130	%REC	1	10/16/2016 05:40 PM
Surr: Toluene-d8	101		70-130	%REC	1	10/16/2016 05:40 PM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO	Prep: USDA Method 20B / 10/21/16 Analyst: JB		
Electrical Conductivity @ Saturation	17		0.25	mmhos/cm @2	50	10/22/2016 12:15 PM
CHROMIUM, TRIVALENT			CALCULATION	Analyst: MB		
Chromium, Trivalent	11		0.62	mg/Kg-dry	1	10/21/2016 10:00 AM
CHROMIUM, HEXAVALENT			SW7196A	Prep: SW3060A / 10/14/16 Analyst: MB		
Chromium, Hexavalent	ND		1.2	mg/Kg-dry	1	10/17/2016 02:00 PM
MOISTURE			SW3550C	Analyst: EDL		
Moisture	19		0.050	% of sample	1	10/14/2016 06:03 PM
PH			SW9045D	Prep: EXTRACT / 10/12/16 Analyst: KF		
pH	7.9			s.u.	1	10/12/2016 12:59 PM

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

ALS Group USA, Corp

Date: 26-Oct-16

Client: Olsson Associates

Project: Levison 13 Spill

Sample ID: LEV 13 - SS5

Collection Date: 10/5/2016 12:20 PM

Work Order: 1610636

Lab ID: 1610636-06

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
			SW8015M		Prep: SW3546 / 10/18/16	Analyst: IT
DRO (C10-C28)	30		5.3	mg/Kg-dry	1	10/20/2016 01:47 AM
Surr: 4-Terphenyl-d14	55.0		39-133	%REC	1	10/20/2016 01:47 AM
GASOLINE RANGE ORGANICS BY GC-FID						
			SW8015D		Prep: SW5035 / 10/12/16	Analyst: IT
GRO (C6-C10)	ND		3.0	mg/Kg-dry	1	10/13/2016 03:17 AM
Surr: Toluene-d8	99.7		50-150	%REC	1	10/13/2016 03:17 AM
MERCURY BY CVAA						
			SW7471B		Prep: SW7471 / 10/24/16	Analyst: LR
Mercury	ND		0.017	mg/Kg-dry	1	10/24/2016 04:26 PM
METALS ANALYSIS BY ICP						
			SW846 6010C		Prep: SW3050B / 10/18/16	Analyst: RH
Arsenic	13		0.43	mg/Kg-dry	1	10/20/2016 08:15 PM
Barium	180		0.43	mg/Kg-dry	1	10/20/2016 08:15 PM
Cadmium	ND		0.43	mg/Kg-dry	1	10/20/2016 08:15 PM
Chromium	7.2		0.43	mg/Kg-dry	1	10/20/2016 08:15 PM
Copper	9.4		0.43	mg/Kg-dry	1	10/20/2016 08:15 PM
Lead	11		0.43	mg/Kg-dry	1	10/20/2016 08:15 PM
Nickel	18		0.43	mg/Kg-dry	1	10/20/2016 08:15 PM
Selenium	1.4		0.86	mg/Kg-dry	1	10/21/2016 04:31 PM
Silver	ND		0.43	mg/Kg-dry	1	10/20/2016 08:15 PM
Zinc	66		0.86	mg/Kg-dry	1	10/20/2016 08:15 PM
SOLUBLE CATIONS FOR SAR						
			SW846 6010C		Prep: USDA Method 20B / 10/21/16	Analyst: RH
Calcium	760		5.0	mg/L	10	10/25/2016 10:56 AM
Magnesium	96		2.0	mg/L	10	10/25/2016 10:56 AM
Sodium	220		2.0	mg/L	10	10/25/2016 10:56 AM
SODIUM ADSORPTION RATIO						
			USDA H60 METHO		Prep: USDA Method 20B / 10/21/16	Analyst: RH
Sodium Adsorption Ratio	2.0		0.010	none	1	10/21/2016
SEMI-VOLATILE ORGANIC COMPOUNDS						
			SW846 8270D		Prep: SW3546 / 10/18/16	Analyst: JF
Acenaphthene	ND		0.0070	mg/Kg-dry	1	10/20/2016 09:24 PM
Anthracene	ND		0.0070	mg/Kg-dry	1	10/20/2016 09:24 PM
Benzo(a)anthracene	ND		0.0070	mg/Kg-dry	1	10/20/2016 09:24 PM
Benzo(a)pyrene	ND		0.0070	mg/Kg-dry	1	10/20/2016 09:24 PM
Benzo(b)fluoranthene	ND		0.0070	mg/Kg-dry	1	10/20/2016 09:24 PM
Benzo(k)fluoranthene	ND		0.0070	mg/Kg-dry	1	10/20/2016 09:24 PM
Chrysene	ND		0.0070	mg/Kg-dry	1	10/20/2016 09:24 PM
Dibenzo(a,h)anthracene	ND		0.0070	mg/Kg-dry	1	10/20/2016 09:24 PM
Fluoranthene	ND		0.0070	mg/Kg-dry	1	10/20/2016 09:24 PM

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

ALS Group USA, Corp

Date: 26-Oct-16

Client: Olsson Associates

Project: Levison 13 Spill

Sample ID: LEV 13 - SS5

Collection Date: 10/5/2016 12:20 PM

Work Order: 1610636

Lab ID: 1610636-06

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	ND		0.0070	mg/Kg-dry	1	10/20/2016 09:24 PM
Indeno(1,2,3-cd)pyrene	ND		0.0070	mg/Kg-dry	1	10/20/2016 09:24 PM
Naphthalene	ND		0.0070	mg/Kg-dry	1	10/20/2016 09:24 PM
Pyrene	0.014		0.0070	mg/Kg-dry	1	10/20/2016 09:24 PM
Surr: 2-Fluorobiphenyl	87.9		12-100	%REC	1	10/20/2016 09:24 PM
Surr: 4-Terphenyl-d14	89.1		25-137	%REC	1	10/20/2016 09:24 PM
Surr: Nitrobenzene-d5	78.9		37-107	%REC	1	10/20/2016 09:24 PM
VOLATILE ORGANIC COMPOUNDS			SW8260B	Prep: SW5035 / 10/12/16	Analyst: LSY	
Benzene	ND		0.036	mg/Kg-dry	1	10/16/2016 06:03 PM
Ethylbenzene	ND		0.036	mg/Kg-dry	1	10/16/2016 06:03 PM
m,p-Xylene	ND		0.071	mg/Kg-dry	1	10/16/2016 06:03 PM
o-Xylene	ND		0.036	mg/Kg-dry	1	10/16/2016 06:03 PM
Toluene	ND		0.036	mg/Kg-dry	1	10/16/2016 06:03 PM
Xylenes, Total	ND		0.11	mg/Kg-dry	1	10/16/2016 06:03 PM
Surr: 1,2-Dichloroethane-d4	106		70-130	%REC	1	10/16/2016 06:03 PM
Surr: 4-Bromofluorobenzene	88.3		70-130	%REC	1	10/16/2016 06:03 PM
Surr: Dibromofluoromethane	94.6		70-130	%REC	1	10/16/2016 06:03 PM
Surr: Toluene-d8	99.8		70-130	%REC	1	10/16/2016 06:03 PM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO	Prep: USDA Method 20B / 10/21/16	Analyst: JB	
Electrical Conductivity @ Saturation	5.7		0.25	mmhos/cm @2	50	10/22/2016 12:15 PM
CHROMIUM, TRIVALENT			CALCULATION	Analyst: MB		
Chromium, Trivalent	7.2		0.55	mg/Kg-dry	1	10/21/2016 10:00 AM
CHROMIUM, HEXAVALENT			SW7196A	Prep: SW3060A / 10/14/16	Analyst: MB	
Chromium, Hexavalent	ND		1.1	mg/Kg-dry	1	10/17/2016 02:00 PM
MOISTURE			SW3550C	Analyst: EDL		
Moisture	8.5		0.050	% of sample	1	10/14/2016 06:03 PM
PH			SW9045D	Prep: EXTRACT / 10/12/16	Analyst: KF	
pH	7.9			s.u.	1	10/12/2016 12:59 PM

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

ALS Group USA, Corp

Date: 26-Oct-16

Client: Olsson Associates

Project: Levison 13 Spill

Sample ID: LEV 13 - SS6

Collection Date: 10/5/2016 12:35 PM

Work Order: 1610636

Lab ID: 1610636-07

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
			SW8015M		Prep: SW3546 / 10/18/16	Analyst: IT
DRO (C10-C28)	26		5.8	mg/Kg-dry	1	10/20/2016 09:42 AM
Surr: 4-Terphenyl-d14	53.9		39-133	%REC	1	10/20/2016 09:42 AM
GASOLINE RANGE ORGANICS BY GC-FID						
			SW8015D		Prep: SW5035 / 10/12/16	Analyst: IT
GRO (C6-C10)	ND		3.4	mg/Kg-dry	1	10/13/2016 03:42 AM
Surr: Toluene-d8	102		50-150	%REC	1	10/13/2016 03:42 AM
MERCURY BY CVAA						
			SW7471B		Prep: SW7471 / 10/24/16	Analyst: LR
Mercury	ND		0.016	mg/Kg-dry	1	10/24/2016 04:28 PM
METALS ANALYSIS BY ICP						
			SW846 6010C		Prep: SW3050B / 10/18/16	Analyst: RH
Arsenic	10		0.46	mg/Kg-dry	1	10/20/2016 08:21 PM
Barium	170		0.46	mg/Kg-dry	1	10/20/2016 08:21 PM
Cadmium	ND		0.46	mg/Kg-dry	1	10/20/2016 08:21 PM
Chromium	7.7		0.46	mg/Kg-dry	1	10/20/2016 08:21 PM
Copper	10		0.46	mg/Kg-dry	1	10/20/2016 08:21 PM
Lead	12		0.46	mg/Kg-dry	1	10/20/2016 08:21 PM
Nickel	20		0.46	mg/Kg-dry	1	10/20/2016 08:21 PM
Selenium	1.3		0.93	mg/Kg-dry	1	10/21/2016 04:37 PM
Silver	ND		0.46	mg/Kg-dry	1	10/20/2016 08:21 PM
Zinc	77		0.93	mg/Kg-dry	1	10/20/2016 08:21 PM
SOLUBLE CATIONS FOR SAR						
			SW846 6010C		Prep: USDA Method 20B / 10/21/16	Analyst: RH
Calcium	800		5.0	mg/L	10	10/25/2016 11:01 AM
Magnesium	100		2.0	mg/L	10	10/25/2016 11:01 AM
Sodium	200		2.0	mg/L	10	10/25/2016 11:01 AM
SODIUM ADSORPTION RATIO						
			USDA H60 METHO		Prep: USDA Method 20B / 10/21/16	Analyst: RH
Sodium Adsorption Ratio	1.8		0.010	none	1	10/21/2016
SEMI-VOLATILE ORGANIC COMPOUNDS						
			SW846 8270D		Prep: SW3546 / 10/18/16	Analyst: JF
Acenaphthene	ND		0.0078	mg/Kg-dry	1	10/20/2016 09:47 PM
Anthracene	ND		0.0078	mg/Kg-dry	1	10/20/2016 09:47 PM
Benzo(a)anthracene	ND		0.0078	mg/Kg-dry	1	10/20/2016 09:47 PM
Benzo(a)pyrene	ND		0.0078	mg/Kg-dry	1	10/20/2016 09:47 PM
Benzo(b)fluoranthene	ND		0.0078	mg/Kg-dry	1	10/20/2016 09:47 PM
Benzo(k)fluoranthene	ND		0.0078	mg/Kg-dry	1	10/20/2016 09:47 PM
Chrysene	ND		0.0078	mg/Kg-dry	1	10/20/2016 09:47 PM
Dibenzo(a,h)anthracene	ND		0.0078	mg/Kg-dry	1	10/20/2016 09:47 PM
Fluoranthene	ND		0.0078	mg/Kg-dry	1	10/20/2016 09:47 PM

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

ALS Group USA, Corp

Date: 26-Oct-16

Client: Olsson Associates
Project: Levison 13 Spill
Sample ID: LEV 13 - SS6
Collection Date: 10/5/2016 12:35 PM

Work Order: 1610636
Lab ID: 1610636-07
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	ND		0.0078	mg/Kg-dry	1	10/20/2016 09:47 PM
Indeno(1,2,3-cd)pyrene	ND		0.0078	mg/Kg-dry	1	10/20/2016 09:47 PM
Naphthalene	ND		0.0078	mg/Kg-dry	1	10/20/2016 09:47 PM
Pyrene	0.015		0.0078	mg/Kg-dry	1	10/20/2016 09:47 PM
Surr: 2-Fluorobiphenyl	80.5		12-100	%REC	1	10/20/2016 09:47 PM
Surr: 4-Terphenyl-d14	86.7		25-137	%REC	1	10/20/2016 09:47 PM
Surr: Nitrobenzene-d5	74.1		37-107	%REC	1	10/20/2016 09:47 PM
VOLATILE ORGANIC COMPOUNDS			SW8260B	Prep: SW5035 / 10/12/16	Analyst: LSY	
Benzene	ND		0.041	mg/Kg-dry	1	10/16/2016 06:27 PM
Ethylbenzene	ND		0.041	mg/Kg-dry	1	10/16/2016 06:27 PM
m,p-Xylene	ND		0.081	mg/Kg-dry	1	10/16/2016 06:27 PM
o-Xylene	ND		0.041	mg/Kg-dry	1	10/16/2016 06:27 PM
Toluene	ND		0.041	mg/Kg-dry	1	10/16/2016 06:27 PM
Xylenes, Total	ND		0.12	mg/Kg-dry	1	10/16/2016 06:27 PM
Surr: 1,2-Dichloroethane-d4	104		70-130	%REC	1	10/16/2016 06:27 PM
Surr: 4-Bromofluorobenzene	90.4		70-130	%REC	1	10/16/2016 06:27 PM
Surr: Dibromofluoromethane	92.0		70-130	%REC	1	10/16/2016 06:27 PM
Surr: Toluene-d8	98.9		70-130	%REC	1	10/16/2016 06:27 PM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO	Prep: USDA Method 20B / 10/21/16	Analyst: JB	
Electrical Conductivity @ Saturation	5.6		0.25	mmhos/cm @2	50	10/22/2016 12:15 PM
CHROMIUM, TRIVALENT			CALCULATION	Analyst: MB		
Chromium, Trivalent	7.2		0.59	mg/Kg-dry	1	10/21/2016 10:00 AM
CHROMIUM, HEXAVALENT			SW7196A	Prep: SW3060A / 10/14/16	Analyst: MB	
Chromium, Hexavalent	ND		1.1	mg/Kg-dry	1	10/17/2016 02:00 PM
MOISTURE			SW3550C	Analyst: EDL		
Moisture	15		0.050	% of sample	1	10/14/2016 06:03 PM
PH			SW9045D	Prep: EXTRACT / 10/12/16	Analyst: KF	
pH	8.0			s.u.	1	10/12/2016 12:59 PM

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

ALS Group USA, Corp**Date:** 26-Oct-16

Client: Olsson Associates
Project: Levison 13 Spill
Sample ID: LEV 13 - BG2
Collection Date: 10/5/2016 12:45 PM

Work Order: 1610636
Lab ID: 1610636-08
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>						
METALS ANALYSIS BY ICP			SW846 6010C		Prep: SW3050B / 10/18/16	Analyst: RH
Arsenic	10		0.41	mg/Kg-dry	1	10/19/2016 01:25 PM
MOISTURE			SW3550C			Analyst: EDL
Moisture	13		0.050	% of sample	1	10/15/2016 09:12 AM

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

Client: Olsson Associates
Work Order: 1610636
Project: Levison 13 Spill

QC BATCH REPORT

Batch ID: **93067** Instrument ID **GC8** Method: **SW8015M**

MBLK		Sample ID: DBLKS1-93067-93067				Units: mg/Kg		Analysis Date: 10/19/2016 11:49 PM		
Client ID:		Run ID: GC8_161019A				SeqNo: 4099316		Prep Date: 10/18/2016		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28)	ND	5.0								
<i>Surr: 4-Terphenyl-d14</i>	2.048	0	3.33	0	61.5	39-133	0			

LCS		Sample ID: DLCSS1-93067-93067				Units: mg/Kg		Analysis Date: 10/20/2016 12:18 PM		
Client ID:		Run ID: GC8_161019A				SeqNo: 4099333		Prep Date: 10/18/2016		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28)	240.3	5.0	333	0	72.2	61-109	0			
<i>Surr: 4-Terphenyl-d14</i>	1.709	0	3.33	0	51.3	39-133	0			

MS		Sample ID: 1610636-06A MS				Units: mg/Kg		Analysis Date: 10/20/2016 12:48 PM		
Client ID: LEV 13 - SS5		Run ID: GC8_161019A				SeqNo: 4099334		Prep Date: 10/18/2016		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28)	258.9	5.0	332.4	27.82	69.5	48-110	0			
<i>Surr: 4-Terphenyl-d14</i>	1.786	0	3.324	0	53.7	39-133	0			

MSD		Sample ID: 1610636-06A MSD				Units: mg/Kg		Analysis Date: 10/20/2016 01:18 A		
Client ID: LEV 13 - SS5		Run ID: GC8_161019A				SeqNo: 4099317		Prep Date: 10/18/2016		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28)	232.3	4.9	323.9	27.82	63.1	48-110	258.9	10.8	30	
<i>Surr: 4-Terphenyl-d14</i>	1.588	0	3.239	0	49	39-133	1.786	11.7	30	

The following samples were analyzed in this batch:

1610636-01A	1610636-02A	1610636-04A
1610636-05A	1610636-06A	1610636-07A

Client: Olsson Associates
 Work Order: 1610636
 Project: Levison 13 Spill

QC BATCH REPORT

Batch ID: **92809** Instrument ID **GC9** Method: **SW8015D**

MBLK		Sample ID: MBLK-92809-92809				Units: µg/Kg-dry		Analysis Date: 10/12/2016 09:27 PM		
Client ID:		Run ID: GC9_161012A				SeqNo: 4083776		Prep Date: 10/12/2016		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

GRO (C6-C10)	ND	2,500								
Surr: Toluene-d8	4515	0	5000	0	90.3	50-150	0			

LCS		Sample ID: LCS-92809-92809				Units: µg/Kg-dry		Analysis Date: 10/12/2016 09:02 PM		
Client ID:		Run ID: GC9_161012A				SeqNo: 4083775		Prep Date: 10/12/2016		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

GRO (C6-C10)	487200	2,500	500000	0	97.4	70-130	0			
Surr: Toluene-d8	5552	0	5000	0	111	50-150	0			

MS		Sample ID: 1610636-02A MS				Units: µg/Kg-dry		Analysis Date: 10/13/2016 01:37 A		
Client ID: LEV 13 - SS2		Run ID: GC9_161012A				SeqNo: 4083783		Prep Date: 10/12/2016		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

GRO (C6-C10)	620100	3,300	662800	0	93.6	70-130	0			
Surr: Toluene-d8	7524	0	6628	0	114	50-150	0			

MSD		Sample ID: 1610636-02A MSD				Units: µg/Kg-dry		Analysis Date: 10/13/2016 02:02 A		
Client ID: LEV 13 - SS2		Run ID: GC9_161012A				SeqNo: 4083784		Prep Date: 10/12/2016		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

GRO (C6-C10)	625400	3,300	662800	0	94.4	70-130	620100	0.845	30	
Surr: Toluene-d8	7453	0	6628	0	112	50-150	7524	0.947	30	

The following samples were analyzed in this batch:

1610636-01A	1610636-02A	1610636-04A
1610636-05A	1610636-06A	1610636-07A

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

Client: Olsson Associates
Work Order: 1610636
Project: Levison 13 Spill

QC BATCH REPORT

Batch ID: **93358** Instrument ID **HG1** Method: **SW7471B**

MBLK		Sample ID: MBLK-93358-93358				Units: mg/Kg		Analysis Date: 10/24/2016 03:53 PM		
Client ID:		Run ID: HG1_161024A				SeqNo: 4106851		Prep Date: 10/24/2016		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury ND 0.020

LCS		Sample ID: LCS-93358-93358				Units: mg/Kg		Analysis Date: 10/24/2016 03:55 PM		
Client ID:		Run ID: HG1_161024A				SeqNo: 4106852		Prep Date: 10/24/2016		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1775 0.020 0.1665 0 107 80-120 0

MS		Sample ID: 1610913-03AMS				Units: mg/Kg		Analysis Date: 10/24/2016 04:39 PM		
Client ID:		Run ID: HG1_161024A				SeqNo: 4106869		Prep Date: 10/24/2016		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1246 0.014 0.1126 0.01552 96.8 75-125 0

MSD		Sample ID: 1610913-03AMSD				Units: mg/Kg		Analysis Date: 10/24/2016 04:41 PM		
Client ID:		Run ID: HG1_161024A				SeqNo: 4106870		Prep Date: 10/24/2016		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1233 0.013 0.112 0.01552 96.2 75-125 0.1246 1.02 35

The following samples were analyzed in this batch:

1610636-01A	1610636-02A	1610636-03A
1610636-04A	1610636-05A	1610636-06A
1610636-07A		

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

Client: Olsson Associates
 Work Order: 1610636
 Project: Levison 13 Spill

QC BATCH REPORT

Batch ID: 93108

Instrument ID ICP2

Method: SW846 6010C

MBLK				Sample ID: MBLK-93108-93108			Units: mg/Kg		Analysis Date: 10/19/2016 12:52 PM		
Client ID:			Run ID: ICP2_161019B			SeqNo: 4097228		Prep Date: 10/18/2016		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Arsenic	ND	0.25									
Barium	ND	0.25									
Cadmium	ND	0.50									
Chromium	0.025	0.25								J	
Copper	ND	0.50									
Lead	ND	0.25									
Nickel	ND	0.25									
Selenium	ND	0.50									
Silver	ND	0.25									
Zinc	0.125	0.50								J	

LCS				Sample ID: LCS-93108-93108				Units: mg/Kg			Analysis Date: 10/19/2016 12:57 PM			
Client ID:				Run ID: ICP2_161019B				SeqNo: 4097229			Prep Date: 10/18/2016		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				
Arsenic	5.28	0.25	5	0	106	80-120	0							
Barium	5.505	0.25	5	0	110	80-120	0							
Cadmium	5.365	0.50	5	0	107	80-120	0							
Chromium	5.335	0.25	5	0	107	80-120	0							
Copper	5.34	0.50	5	0	107	80-120	0							
Lead	5.39	0.25	5	0	108	80-120	0							
Nickel	5.365	0.25	5	0	107	80-120	0							
Selenium	5.07	0.50	5	0	101	80-120	0							
Silver	5.07	0.25	5	0	101	80-120	0							
Zinc	5.4	0.50	5	0	108	80-120	0							

MS				Sample ID: 1610636-08AMS			Units: mg/Kg		Analysis Date: 10/19/2016 01:31 PM		
Client ID: LEV 13 - BG2			Run ID: ICP2_161019B			SeqNo: 4097233		Prep Date: 10/18/2016		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Arsenic	17.14	0.35	7.072	8.64	120	75-125	0				
Barium	122.4	0.35	7.072	108.8	193	75-125	0			SO	
Cadmium	8.536	0.71	7.072	0.1781	118	75-125	0				
Chromium	20.82	0.35	7.072	11.32	134	75-125	0			S	
Copper	21.73	0.71	7.072	14.28	105	75-125	0				
Lead	24.49	0.35	7.072	16.97	106	75-125	0				
Nickel	26.51	0.35	7.072	18.88	108	75-125	0				
Selenium	9.399	0.71	7.072	1.567	111	75-125	0				
Silver	7.496	0.35	7.072	-0.02849	106	75-125	0				
Zinc	93.87	0.71	7.072	84.74	129	75-125	0			SO	

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

Client: Olsson Associates
 Work Order: 1610636
 Project: Levison 13 Spill

QC BATCH REPORT

Batch ID: 93108 Instrument ID ICP2 Method: SW846 6010C

MSD		Sample ID: 1610636-08AMSD				Units: mg/Kg		Analysis Date: 10/19/2016 01:37 PM		
Client ID: LEV 13 - BG2		Run ID: ICP2_161019B				SeqNo: 4097234		Prep Date: 10/18/2016		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	17.88	0.36	7.153	8.64	129	75-125	17.14	4.18	20	S
Barium	118.7	0.36	7.153	108.8	140	75-125	122.4	3.02	20	SO
Cadmium	9.013	0.72	7.153	0.1781	124	75-125	8.536	5.43	20	
Chromium	20.69	0.36	7.153	11.32	131	75-125	20.82	0.61	20	S
Copper	21.17	0.72	7.153	14.28	96.3	75-125	21.73	2.64	20	
Lead	25.48	0.36	7.153	16.97	119	75-125	24.49	3.96	20	
Nickel	27.77	0.36	7.153	18.88	124	75-125	26.51	4.62	20	
Selenium	9.628	0.72	7.153	1.567	113	75-125	9.399	2.41	20	
Silver	7.439	0.36	7.153	-0.02849	104	75-125	7.496	0.767	20	
Zinc	98.03	0.72	7.153	84.74	186	75-125	93.87	4.34	20	SO

The following samples were analyzed in this batch:

1610636-01A	1610636-02A	1610636-03A
1610636-04A	1610636-05A	1610636-06A
1610636-07A	1610636-08A	

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

Client: Olsson Associates
Work Order: 1610636
Project: Levison 13 Spill

QC BATCH REPORT

Batch ID: **93229** Instrument ID **SAR** Method: **USDA H60 Metho**

DUP		Sample ID: 1610636-01BDUP				Units: none		Analysis Date: 10/21/2016		
Client ID: LEV 13 - SS1		Run ID: SAR_161021A				SeqNo: 4109183		Prep Date: 10/21/2016		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	7.98	0.010	0	0	0		11.21	33.7	50	

The following samples were analyzed in this batch:

1610636-01B	1610636-02B	1610636-03B
1610636-04B	1610636-05B	1610636-06B
1610636-07B		

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

Client: Olsson Associates
 Work Order: 1610636
 Project: Levison 13 Spill

QC BATCH REPORT

Batch ID: 93066 Instrument ID SVMS4 Method: SW846 8270D

MBLK				Sample ID: SBLKS1-93066-93066				Units: µg/Kg			Analysis Date: 10/18/2016 06:57 PM		
Client ID:			Run ID: SVMS4_161018A				SeqNo: 4096944		Prep Date: 10/18/2016		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual			
Acenaphthene	ND	6.7											
Anthracene	ND	6.7											
Benzo(a)anthracene	ND	6.7											
Benzo(a)pyrene	ND	6.7											
Benzo(b)fluoranthene	ND	6.7											
Benzo(k)fluoranthene	ND	6.7											
Chrysene	ND	6.7											
Dibenzo(a,h)anthracene	ND	6.7											
Fluoranthene	ND	6.7											
Fluorene	ND	6.7											
Indeno(1,2,3-cd)pyrene	ND	6.7											
Naphthalene	ND	6.7											
Pyrene	ND	6.7											
Surr: 2-Fluorobiphenyl	2601	0	3333	0	78	12-100	0						
Surr: 4-Terphenyl-d14	2629	0	3333	0	78.9	25-137	0						
Surr: Nitrobenzene-d5	2399	0	3333	0	72	37-107	0						

LCS				Sample ID: SLCSS1-93066-93066				Units: µg/Kg		Analysis Date: 10/19/2016 01:55 PM	
Client ID:			Run ID: SVMS5_161019A			SeqNo: 4099110		Prep Date: 10/18/2016		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	1153	6.7	1333	0	86.5	45-110	0				
Anthracene	1122	6.7	1333	0	84.2	55-105	0				
Benzo(a)anthracene	1191	6.7	1333	0	89.4	50-110	0				
Benzo(a)pyrene	1131	6.7	1333	0	84.8	50-110	0				
Benzo(b)fluoranthene	1107	6.7	1333	0	83	45-115	0				
Benzo(k)fluoranthene	1205	6.7	1333	0	90.4	45-115	0				
Chrysene	1249	6.7	1333	0	93.7	55-110	0				
Dibenzo(a,h)anthracene	1171	6.7	1333	0	87.9	40-125	0				
Fluoranthene	1151	6.7	1333	0	86.3	55-115	0				
Fluorene	1171	6.7	1333	0	87.9	50-110	0				
Indeno(1,2,3-cd)pyrene	1149	6.7	1333	0	86.2	40-120	0				
Naphthalene	751.3	6.7	1333	0	56.4	40-105	0				
Pyrene	1099	6.7	1333	0	82.4	45-125	0				
Surr: 2-Fluorobiphenyl	2873	0	3333	0	86.2	12-100	0				
Surr: 4-Terphenyl-d14	2735	0	3333	0	82	25-137	0				
Surr: Nitrobenzene-d5	2384	0	3333	0	71.5	37-107	0				

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

Client: Olsson Associates
 Work Order: 1610636
 Project: Levison 13 Spill

QC BATCH REPORT

Batch ID: 93066 Instrument ID SVMS4 Method: SW846 8270D

MS				Sample ID: 1610636-01A MS			Units: µg/Kg		Analysis Date: 10/18/2016 09:45 PM		
Client ID: LEV 13 - SS1			Run ID: SVMS4_161018A			SeqNo: 4096949		Prep Date: 10/18/2016		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	878	6.5	1305	0	67.3	45-110	0				
Anthracene	907.4	6.5	1305	0	69.5	55-105	0				
Benzo(a)anthracene	925	6.5	1305	0	70.9	50-110	0				
Benzo(a)pyrene	960.2	6.5	1305	0	73.6	50-110	0				
Benzo(b)fluoranthene	956.3	6.5	1305	0	73.3	45-115	0				
Benzo(k)fluoranthene	958.3	6.5	1305	0	73.4	45-115	0				
Chrysene	891.1	6.5	1305	0	68.3	55-110	0				
Dibenzo(a,h)anthracene	882.6	6.5	1305	0	67.6	40-125	0				
Fluoranthene	949.8	6.5	1305	0	72.8	55-115	0				
Fluorene	887.8	6.5	1305	0	68	50-110	0				
Indeno(1,2,3-cd)pyrene	880	6.5	1305	0	67.4	40-120	0				
Naphthalene	784	6.5	1305	0	60.1	40-105	0				
Pyrene	895	6.5	1305	0	68.6	45-125	0				
Surr: 2-Fluorobiphenyl	2131	0	3264	0	65.3	12-100	0				
Surr: 4-Terphenyl-d14	1992	0	3264	0	61	25-137	0				
Surr: Nitrobenzene-d5	2202	0	3264	0	67.5	37-107	0				

MSD				Sample ID: 1610636-01A MSD				Units: µg/Kg		Analysis Date: 10/18/2016 10:12 PM	
Client ID: LEV 13 - SS1			Run ID: SVMS4_161018A			SeqNo: 4096950		Prep Date: 10/18/2016		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	1061	6.7	1329	0	79.8	45-110	878	18.8	30		
Anthracene	1113	6.7	1329	0	83.7	55-105	907.4	20.4	30		
Benzo(a)anthracene	1118	6.7	1329	0	84.1	50-110	925	18.9	30		
Benzo(a)pyrene	1180	6.7	1329	0	88.7	50-110	960.2	20.5	30		
Benzo(b)fluoranthene	1233	6.7	1329	0	92.7	45-115	956.3	25.3	30		
Benzo(k)fluoranthene	1205	6.7	1329	0	90.7	45-115	958.3	22.8	30		
Chrysene	1084	6.7	1329	0	81.6	55-110	891.1	19.6	30		
Dibenzo(a,h)anthracene	1064	6.7	1329	0	80.1	40-125	882.6	18.7	30		
Fluoranthene	1103	6.7	1329	0	83	55-115	949.8	14.9	30		
Fluorene	1108	6.7	1329	0	83.3	50-110	887.8	22	30		
Indeno(1,2,3-cd)pyrene	1057	6.7	1329	0	79.5	40-120	880	18.2	30		
Naphthalene	935.5	6.7	1329	0	70.4	40-105	784	17.6	30		
Pyrene	1168	6.7	1329	0	87.8	45-125	895	26.4	30		
Surr: 2-Fluorobiphenyl	2523	0	3324	0	75.9	12-100	2131	16.8	40		
Surr: 4-Terphenyl-d14	2629	0	3324	0	79.1	25-137	1992	27.6	40		
Surr: Nitrobenzene-d5	2610	0	3324	0	78.5	37-107	2202	16.9	40		

The following samples were analyzed in this batch:

1610636-01A	1610636-02A	1610636-04A
1610636-05A	1610636-06A	1610636-07A

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

Client: Olsson Associates
 Work Order: 1610636
 Project: Levison 13 Spill

QC BATCH REPORT

Batch ID: **92808** Instrument ID **VMS7** Method: **SW8260B**

MBLK Sample ID: MBLK-92808-92808				Units: µg/Kg-dry			Analysis Date: 10/12/2016 11:15 PM			
Client ID:		Run ID: VMS7_161012B		SeqNo: 4083658		Prep Date: 10/12/2016		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	30	0	0	0	0-0	0			
Ethylbenzene	ND	30	0	0	0	0-0	0			
m,p-Xylene	ND	60	0	0	0	0-0	0			
o-Xylene	ND	30	0	0	0	0-0	0			
Toluene	ND	30	0	0	0	0-0	0			
Xylenes, Total	ND	90	0	0	0	0-0	0			
Surr: 1,2-Dichloroethane-d4	954	0	1000	0	95.4	70-130	0			
Surr: 4-Bromofluorobenzene	939.5	0	1000	0	94	70-130	0			
Surr: Dibromofluoromethane	959.5	0	1000	0	96	70-130	0			
Surr: Toluene-d8	975.5	0	1000	0	97.6	70-130	0			

LCS Sample ID: LCS-92808-92808				Units: µg/Kg-dry			Analysis Date: 10/12/2016 10:06 PM			
Client ID:		Run ID: VMS7_161012B		SeqNo: 4083657		Prep Date: 10/12/2016		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	969	30	1000	0	96.9	75-125	0			
Ethylbenzene	996.5	30	1000	0	99.6	75-125	0			
m,p-Xylene	2002	60	2000	0	100	80-125	0			
o-Xylene	997	30	1000	0	99.7	75-125	0			
Toluene	985.5	30	1000	0	98.6	70-125	0			
Xylenes, Total	2999	90	3000	0	100	75-125	0			
Surr: 1,2-Dichloroethane-d4	961	0	1000	0	96.1	70-130	0			
Surr: 4-Bromofluorobenzene	964.5	0	1000	0	96.4	70-130	0			
Surr: Dibromofluoromethane	1028	0	1000	0	103	70-130	0			
Surr: Toluene-d8	966.5	0	1000	0	96.6	70-130	0			

MS Sample ID: 1610636-02A MS				Units: µg/Kg-dry			Analysis Date: 10/16/2016 08:48 PM			
Client ID: LEV 13 - SS2		Run ID: VMS10_161016A		SeqNo: 4090670		Prep Date: 10/12/2016		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1509	40	1326	0	114	75-125	0			
Ethylbenzene	1442	40	1326	0	109	75-125	0			
m,p-Xylene	3006	80	2651	0	113	80-125	0			
o-Xylene	1459	40	1326	0	110	75-125	0			
Toluene	1437	40	1326	0	108	70-125	0			
Xylenes, Total	4465	120	3977	0	112	75-125	0			
Surr: 1,2-Dichloroethane-d4	1290	0	1326	0	97.4	70-130	0			
Surr: 4-Bromofluorobenzene	1371	0	1326	0	103	70-130	0			
Surr: Dibromofluoromethane	1259	0	1326	0	95	70-130	0			
Surr: Toluene-d8	1335	0	1326	0	101	70-130	0			

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

Client: Olsson Associates
 Work Order: 1610636
 Project: Levison 13 Spill

QC BATCH REPORT

Batch ID: **92808** Instrument ID **VMS7** Method: **SW8260B**

MSD				Sample ID: 1610636-02A MSD			Units: µg/Kg-dry		Analysis Date: 10/16/2016 09:11 PM	
Client ID: LEV 13 - SS2				Run ID: VMS10_161016A			SeqNo: 4090671		Prep Date: 10/12/2016	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1456	40	1326	0	110	75-125	1509	3.53	30	
Ethylbenzene	1404	40	1326	0	106	75-125	1442	2.66	30	
m,p-Xylene	2915	80	2651	0	110	80-125	3006	3.09	30	
o-Xylene	1414	40	1326	0	107	75-125	1459	3.14	30	
Toluene	1392	40	1326	0	105	70-125	1437	3.19	30	
Xylenes, Total	4329	120	3977	0	109	75-125	4465	3.11	30	
Surr: 1,2-Dichloroethane-d4	1258	0	1326	0	94.9	70-130	1290	2.55	30	
Surr: 4-Bromofluorobenzene	1404	0	1326	0	106	70-130	1371	2.39	30	
Surr: Dibromofluoromethane	1243	0	1326	0	93.8	70-130	1259	1.32	30	
Surr: Toluene-d8	1377	0	1326	0	104	70-130	1335	3.13	30	

The following samples were analyzed in this batch:

1610636-01A	1610636-02A	1610636-04A
1610636-05A	1610636-06A	1610636-07A

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

Client: Olsson Associates
Work Order: 1610636
Project: Levison 13 Spill

QC BATCH REPORT

Batch ID: **92793** Instrument ID **WETCHEM** Method: **SW9045D**

LCS				Sample ID: LCS-92793-92793				Units: s.u.			Analysis Date: 10/12/2016 12:59 PM		
Client ID:				Run ID: WETCHEM_161012G				SeqNo: 4080733		Prep Date: 10/12/2016		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual			
pH	4	0	4	0	100	90-110	0						

DUP				Sample ID: 1610630-01A DUP				Units: s.u.			Analysis Date: 10/12/2016 12:59 PM			
Client ID:				Run ID: WETCHEM_161012G				SeqNo: 4080736			Prep Date: 10/12/2016		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				
pH	7.68	0	0	0	0	0-0	7.57	1.44	20					

DUP				Sample ID: 1610636-06A DUP				Units: s.u.		Analysis Date: 10/12/2016 12:59 PM			
Client ID: LEV 13 - SS5				Run ID: WETCHEM_161012G				SeqNo: 4080748		Prep Date: 10/12/2016		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual			
pH	7.97	0	0	0	0	0-0	7.92	0.629	20				

The following samples were analyzed in this batch:

1610636-01A	1610636-02A	1610636-03A
1610636-04A	1610636-05A	1610636-06A
1610636-07A		

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

Client: Olsson Associates
Work Order: 1610636
Project: Levison 13 Spill

QC BATCH REPORT

Batch ID: **92936** Instrument ID **WETCHEM** Method: **SW7196A**

MBLK		Sample ID: MBLK-92936-92936				Units: mg/Kg		Analysis Date: 10/17/2016 02:00 PM		
Client ID:		Run ID: WETCHEM_161017F		SeqNo: 4091843		Prep Date: 10/14/2016		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent ND 1.0

LCS		Sample ID: LCS-92936-92936				Units: mg/Kg		Analysis Date: 10/17/2016 02:00 PM		
Client ID:		Run ID: WETCHEM_161017F		SeqNo: 4091842		Prep Date: 10/14/2016		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 4.2 1.0 5 0 84 80-120 0

MS		Sample ID: 1610636-06A MS				Units: mg/Kg		Analysis Date: 10/17/2016 02:00 PM		
Client ID: LEV 13 - SS5		Run ID: WETCHEM_161017F		SeqNo: 4091837		Prep Date: 10/14/2016		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 3.792 0.99 4.95 0.08911 74.8 75-125 0 S

MS		Sample ID: 1610636-06A MSI				Units: mg/Kg		Analysis Date: 10/17/2016 02:00 PM		
Client ID: LEV 13 - SS5		Run ID: WETCHEM_161017F		SeqNo: 4091839		Prep Date: 10/14/2016		DF: 100		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1746 99 1641 0.08911 106 75-125 0

MSD		Sample ID: 1610636-06A MSD				Units: mg/Kg		Analysis Date: 10/17/2016 02:00 PM		
Client ID: LEV 13 - SS5		Run ID: WETCHEM_161017F		SeqNo: 4091838		Prep Date: 10/14/2016		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 3.792 0.99 4.95 0.08911 74.8 75-125 3.792 0 20 S

The following samples were analyzed in this batch:

1610636-01A	1610636-02A	1610636-03A
1610636-04A	1610636-05A	1610636-06A
1610636-07A		

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

Client: Olsson Associates
Work Order: 1610636
Project: Levison 13 Spill

QC BATCH REPORT

Batch ID: **93229** Instrument ID **WETCHEM** Method: **USDA H60 Metho**

DUP		Sample ID: 1610636-01B DUP				Units: mmhos/cm @25°		Analysis Date: 10/22/2016 12:15 PM		
Client ID: LEV 13 - SS1		Run ID: WETCHEM_161022A		SeqNo: 4103642		Prep Date: 10/21/2016		DF: 50		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	10.55	0.25	0	0	0		10.75	1.88	50	

The following samples were analyzed in this batch:

1610636-01B	1610636-02B	1610636-03B
1610636-04B	1610636-05B	1610636-06B
1610636-07B		

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

Client: Olsson Associates
Work Order: 1610636
Project: Levison 13 Spill

QC BATCH REPORT

Batch ID: **R198179** Instrument ID **MOIST** Method: **SW3550C**

MBLK				Sample ID: WBLKS-R198179				Units: % of sample			Analysis Date: 10/14/2016 06:03 PM			
Client ID:				Run ID: MOIST_161014F				SeqNo: 4087577			Prep Date:		DF: 1	
Analyte				Result		PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture ND 0.050

LCS				Sample ID: LCS-R198179				Units: % of sample			Analysis Date: 10/14/2016 06:03 PM		
Client ID:				Run ID: MOIST_161014F				SeqNo: 4087576		Prep Date:		DF: 1	
Analyte				Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 100 0.050 100 0 100 99.5-100.5 0

DUP				Sample ID: 1610630-01A DUP				Units: % of sample			Analysis Date: 10/14/2016 06:03 PM			
Client ID:				Run ID: MOIST_161014F				SeqNo: 4087558			Prep Date:		DF: 1	
Analyte				Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Moisture 19.22 0.050 0 0 0 19.54 1.65 20

DUP				Sample ID: 1610636-05A DUP				Units: % of sample			Analysis Date: 10/14/2016 06:03 PM			
Client ID: LEV 13 - SS4				Run ID: MOIST_161014F				SeqNo: 4087566			Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				

Moisture 20.3 0.050 0 0 0 19.12 5.99 20

The following samples were analyzed in this batch:

1610636-01A	1610636-02A	1610636-03A
1610636-04A	1610636-05A	1610636-06A
1610636-07A		

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

Client: Olsson Associates
Work Order: 1610636
Project: Levison 13 Spill

QC BATCH REPORT

Batch ID: **R198214** Instrument ID **MOIST** Method: **SW3550C**

MBLK		Sample ID: WBLKS-R198214					Units: % of sample		Analysis Date: 10/15/2016 09:12 A		
Client ID:			Run ID: MOIST_161015A			SeqNo: 4088825		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Moisture ND 0.050

LCS		Sample ID: LCS-R198214				Units: % of sample		Analysis Date: 10/15/2016 09:12 A		
Client ID:		Run ID: MOIST_161015A			SeqNo: 4088824		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 100 0.050 100 0 100 99.5-100.5 0

DUP		Sample ID: 1610631-01A DUP				Units: % of sample		Analysis Date: 10/15/2016 09:12 A		
Client ID:		Run ID: MOIST_161015A			SeqNo: 4088803		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 17.68 0.050 0 0 0 18.18 2.79 20

DUP		Sample ID: 1610631-03A DUP				Units: % of sample		Analysis Date: 10/15/2016 09:12 A		
Client ID:		Run ID: MOIST_161015A			SeqNo: 4088806		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 13.72 0.050 0 0 0 13.7 0.146 20

The following samples were analyzed in this batch:

1610636-08A

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



Environmental

Chain of Custody Form

Page 1 of 1

COC ID: 123456

☐ Cincinnati, OH
+1 513 733 5335
☐ Everett, WA
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+1 970 490 1511

☒ Holland, MI
+1 616 399 6070
☐ Houston, TX
+1 281 530 5656
☐ Middletown, PA
+1 717 944 5541

☐ Salt Lake City, UT
+1 801 266 7700
☐ Spring City, PA
+1 610 948 4903
☐ York, PA
+1 717 505 5280

ALS Project Manager:

Work Order #:

1610636

Customer Information		Project Information		Parameter/Method Request for Analysis															
Purchase Order		Project Name	Leviason 13 Spill	A. TPH (GRO & DRO)															
Work Order		Project Number	013.3287.100.100004	B. BTEX															
Company Name	Olsson Associates	Bill To Company	Olsson Associates	C. PAH (See Attached List) CO Table 910															
Send Report To	Tim Dobransky	Invoice Attn	Tim Dobransky	D. Electrical Conductivity															
Address	760 Horizon Drive, Ste. 102	Address	760 Horizon Drive, Ste. 102	E. Sodium Adsorption Ratio															
				F. pH															
City/State/Zip	Grand Junction, CO 81506	City/State/Zip	Grand Junction, CO 81506	G. Metals (See Attached List) CO Table 910															
Phone	970.263.7800	Phone	970.263.7800	H. Arsenic Only															
Fax	970.263.7456	Fax	970.263.7456																
e-Mail Address	tdobransky@olssonconsulting.com	e-Mail Address																	
No.	Sample Description	Date	Time	Matrix	Pres.	# Batches	A	B	C	D	E	F	G	H	I	J	Hold		
1	LEV 13 - SS1	10/05/16	1045	Soil	8	2	X	X	X	X	X	X	X						
2	LEV 13 - SS2	10/05/16	1110	Soil	8	2	X	X	X	X	X	X	X						
3	LEV 13 - BG1	10/05/16	1120	Soil	8	2				X	X	X	X						
4	LEV 13 - SS3	10/05/16	1130	Soil	8	2	X	X	X	X	X	X	X						
5	LEV 13 - SS4	10/05/16	1200	Soil	8	2	X	X	X	X	X	X	X						
6	LEV 13 - SS5	10/05/16	1220	Soil	8	2	X	X	X	X	X	X	X						
7	LEV 13 - SS6	10/05/16	1235	Soil	8	2	X	X	X	X	X	X	X						
8	LEV 13 - BG2	10/05/16	1245	Soil	8	1								X					
9																			
10																			
11																			
12																			
13																			
Sampler(s): Please Print & Sign Jason McLarty		Shipment Method: FedEx		Required Turnaround Time: RSTD 10 Wk Days 05 Wk Days 02 Wk Days 024 Hour				Results Due Date:											
Relinquished by: <i>Jason McLarty</i>		Date: 10/7/16	Time: 1100	Received by: <i>MM</i>		Notes: Chevron Pricing Applies - Per Bruce Schlatter													
Relinquished by: <i>W</i>		Date: 10-7	Time: 1700	Received by (Laboratory): <i>10/11/16 0930</i>		Cooler Temp: 3.6°C	QC Package: (Check Box Below)												
Logged by (Laboratory): <i>DES</i>		Date: 10/11/16	Time: 1530	Checked by (Laboratory): <i>10/11/16 0930</i>		<input checked="" type="checkbox"/> Level II: Standard QC <input type="checkbox"/> Level III: Std QC + Raw Data <input type="checkbox"/> Level IV: SW846 CLP-Like Other:													
Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4 degrees C 9-5035																			

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

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Sample Receipt Checklist

Client Name: **OLSSON**

Date/Time Received: **11-Oct-16 09:30**

Work Order: **1610636**

Received by: **DS**

Checklist completed by Diane Shaw 11-Oct-16
eSignature Date

Reviewed by: Chad Whelton 11-Oct-16
eSignature Date

Matrices: **Soil**

Carrier name: **FedEx**

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample(s) received on ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<u>3.6/3.6 c</u>		<u>SR2</u>
Cooler(s)/Kit(s):	<u></u>		
Date/Time sample(s) sent to storage:	<u>10/11/2016 3:26:12 PM</u>		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted by:	<u>-</u>		

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:



09-Apr-2021

Tim Dobransky
Entrada Consulting Group
240 Mesa Ave.
Grand Junction, CO 81501

Re: **Levison 13 Resampling**

Work Order: **21040264**

Dear Tim,

ALS Environmental received 2 samples on 03-Apr-2021 09:30 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 11.

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "Chad Whelton".

Electronically approved by: Chad Whelton

Chad Whelton
Project Manager

Report of Laboratory Analysis

Certificate No: MN 026-999-449

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

Environmental 

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RIGHT SOLUTIONS RIGHT PARTNER

Client: Entrada Consulting Group
Project: Levison 13 Resampling
Work Order: 21040264

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>
21040264-01	LEV13-SS1	Soil		4/1/2021 09:30	4/3/2021 09:30	<input type="checkbox"/>
21040264-02	LEV13-SS4	Soil		4/1/2021 09:45	4/3/2021 09:30	<input type="checkbox"/>

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

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

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

ALS Group, USA

Date: 09-Apr-21

Client: Entrada Consulting Group
Project: Levison 13 Resampling
Sample ID: LEV13-SS1
Collection Date: 4/1/2021 09:30 AM

Work Order: 21040264
Lab ID: 21040264-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
ELECTRICAL CONDUCTIVITY (SAR)							
				Method: USDA H60 METHOD 2		Prep: USDA Method 20B / 4/8/21	Analyst: QTN
Electrical Conductivity @ Saturation	1.4		0.011	0.10	mmhos/cm @25°	20	4/8/2021 12:48

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

ALS Group, USA

Date: 09-Apr-21

Client: Entrada Consulting Group
Project: Levison 13 Resampling
Sample ID: LEV13-SS4
Collection Date: 4/1/2021 09:45 AM

Work Order: 21040264
Lab ID: 21040264-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
SOLUBLE CATIONS FOR SAR							
			Method: SW6020B		Prep: USDA Method 20B / 4/8/21		Analyst: STP
Calcium	150		2.5	5.0	mg/L	10	4/8/2021 17:14
Magnesium	24		0.50	2.0	mg/L	10	4/8/2021 17:14
Sodium	8.5		1.8	2.0	mg/L	10	4/8/2021 17:14
SODIUM ADSORPTION RATIO							
			Method: USDA H60 METHOD 2		Prep: USDA Method 20B / 4/8/21		Analyst: STP
Sodium Adsorption Ratio	0.17		0.010	0.010	none	1	4/8/2021
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS)							
			Method: SW8270E		Prep: SW3546 / 4/5/21		Analyst: EEW
Acenaphthene	U		0.0083	0.0097	mg/Kg-dry	1	4/5/2021 20:06
Anthracene	U		0.0088	0.0097	mg/Kg-dry	1	4/5/2021 20:06
Benzo(a)anthracene	U		0.0094	0.0097	mg/Kg-dry	1	4/5/2021 20:06
Benzo(a)pyrene	U		0.0078	0.0097	mg/Kg-dry	1	4/5/2021 20:06
Benzo(b)fluoranthene	U		0.0083	0.0097	mg/Kg-dry	1	4/5/2021 20:06
Benzo(k)fluoranthene	U		0.0080	0.0097	mg/Kg-dry	1	4/5/2021 20:06
Chrysene	U		0.0089	0.0097	mg/Kg-dry	1	4/5/2021 20:06
Dibenzo(a,h)anthracene	U		0.0079	0.0097	mg/Kg-dry	1	4/5/2021 20:06
Fluoranthene	U		0.0077	0.0097	mg/Kg-dry	1	4/5/2021 20:06
Fluorene	U		0.0076	0.0097	mg/Kg-dry	1	4/5/2021 20:06
Indeno(1,2,3-cd)pyrene	U		0.0085	0.0097	mg/Kg-dry	1	4/5/2021 20:06
Naphthalene	U		0.0094	0.0097	mg/Kg-dry	1	4/5/2021 20:06
Pyrene	U		0.0093	0.0097	mg/Kg-dry	1	4/5/2021 20:06
Surr: 2-Fluorobiphenyl	89.5			20-140	%REC	1	4/5/2021 20:06
Surr: 4-Terphenyl-d14	80.1			22-172	%REC	1	4/5/2021 20:06
Surr: Nitrobenzene-d5	82.7			28-140	%REC	1	4/5/2021 20:06
ELECTRICAL CONDUCTIVITY (SAR)							
			Method: USDA H60 METHOD 2		Prep: USDA Method 20B / 4/8/21		Analyst: QTN
Electrical Conductivity @ Saturation	0.95		0.011	0.10	mmhos/cm @25°	20	4/8/2021 12:48
MOISTURE							
			Method: SW3550C		Analyst: KTP		
Moisture	12		0.10	0.10	% of sample	1	4/6/2021 14:18

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

Client: Entrada Consulting Group

QC BATCH REPORT

Work Order: 21040264

Project: Levison 13 Resampling

Batch ID: 174766

Instrument ID ICPMS3

Method: SW6020B

DUP		Sample ID: 21040090-01ADUP				Units: mg/L		Analysis Date: 4/8/2021 05:01 PM		
Client ID:		Run ID: ICPMS3_210408A				SeqNo: 7288825		Prep Date: 4/8/2021		DF: 10
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Magnesium	118.7	2.0	0	0	0	0-0	120.9	1.86		
Sodium	327.4	2.0	0	0	0	0-0	323.3	1.24		

DUP		Sample ID: 21040090-01ADUP				Units: mg/L		Analysis Date: 4/8/2021 05:26 PM		
Client ID:		Run ID: ICPMS3_210408A				SeqNo: 7288840		Prep Date: 4/8/2021		DF: 100
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	2220	50	0	0	0	0-0	2207	0.559		

The following samples were analyzed in this batch: 21040264-01A 21040264-02A

Batch ID: 174766

Instrument ID SAR

Method: USDA H60 Method

DUP		Sample ID: 21040090-01ADUP				Units: none		Analysis Date: 4/8/2021		
Client ID:		Run ID: SAR_210408A				SeqNo: 7288849		Prep Date: 4/8/2021		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	1.834	0.010	0	0	0		1.543	17.3	50	

The following samples were analyzed in this batch: 21040264-01A 21040264-02A

Client: Entrada Consulting Group
 Work Order: 21040264
 Project: Levison 13 Resampling

QC BATCH REPORT

Batch ID: **174569** Instrument ID **SVMS6** Method: **SW8270E**

MBLK				Sample ID: SBLKS1-174569-174569		Units: µg/Kg		Analysis Date: 4/5/2021 04:12 PM		
Client ID:				Run ID: SVMS6_210405A		SeqNo: 7279853		Prep Date: 4/5/2021		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	2836	0	3333	0	85.1	20-140	0			
Surr: 4-Terphenyl-d14	2696	0	3333	0	80.9	22-172	0			
Surr: Nitrobenzene-d5	2538	0	3333	0	76.2	28-140	0			

LCS				Sample ID: SLCSS1-174569-174569		Units: µg/Kg		Analysis Date: 4/5/2021 05:15 PM		
Client ID:				Run ID: SVMS6_210405A		SeqNo: 7279854		Prep Date: 4/5/2021		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1235	4.2	1333	0	92.6	40-140	0			
Anthracene	1380	4.2	1333	0	104	40-140	0			
Benzo(a)anthracene	1196	4.2	1333	0	89.7	40-140	0			
Benzo(a)pyrene	1138	4.2	1333	0	85.3	40-140	0			
Benzo(b)fluoranthene	1172	4.2	1333	0	87.9	40-140	0			
Benzo(k)fluoranthene	1074	4.2	1333	0	80.6	40-140	0			
Chrysene	1177	4.2	1333	0	88.3	40-140	0			
Dibenzo(a,h)anthracene	1111	4.2	1333	0	83.4	40-140	0			
Fluoranthene	1443	4.2	1333	0	108	40-140	0			
Fluorene	1171	4.2	1333	0	87.8	40-140	0			
Indeno(1,2,3-cd)pyrene	1127	4.2	1333	0	84.6	40-140	0			
Naphthalene	1221	4.2	1333	0	91.6	40-140	0			
Pyrene	1015	4.2	1333	0	76.1	40-140	0			
Surr: 2-Fluorobiphenyl	2752	0	3333	0	82.6	20-140	0			
Surr: 4-Terphenyl-d14	2450	0	3333	0	73.5	22-172	0			
Surr: Nitrobenzene-d5	2241	0	3333	0	67.2	28-140	0			

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

Client: Entrada Consulting Group
 Work Order: 21040264
 Project: Levison 13 Resampling

QC BATCH REPORT

Batch ID: **174569** Instrument ID **SVMS6** Method: **SW8270E**

MS				Sample ID: 21040148-04B MS			Units: µg/Kg		Analysis Date: 4/5/2021 05:30 PM	
Client ID:		Run ID: SVMS6_210405A			SeqNo: 7279855		Prep Date: 4/5/2021		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1216	4.0	1294	80.66	87.8	40-140	0			
Anthracene	1327	4.0	1294	28.23	100	40-140	0			
Benzo(a)anthracene	1198	4.0	1294	7.482	92	40-140	0			
Benzo(a)pyrene	1088	4.0	1294	5.82	83.6	40-140	0			
Benzo(b)fluoranthene	1168	4.0	1294	7.678	89.7	40-140	0			
Benzo(k)fluoranthene	1071	4.0	1294	0	82.8	40-140	0			
Chrysene	1201	4.0	1294	7.906	92.2	40-140	0			
Dibenzo(a,h)anthracene	1232	4.0	1294	0	95.2	40-140	0			
Fluoranthene	1139	4.0	1294	10.37	87.2	40-140	0			
Fluorene	1320	4.0	1294	146.9	90.6	40-140	0			
Indeno(1,2,3-cd)pyrene	1273	4.0	1294	4.988	98	40-140	0			
Naphthalene	1249	4.0	1294	219.4	79.6	40-140	0			
Pyrene	1169	4.0	1294	71.16	84.8	40-140	0			
Surr: 2-Fluorobiphenyl	2874	0	3236	0	88.8	20-140	0			
Surr: 4-Terphenyl-d14	2613	0	3236	0	80.8	22-172	0			
Surr: Nitrobenzene-d5	2362	0	3236	0	73	28-140	0			

MSD				Sample ID: 21040148-04B MSD			Units: µg/Kg		Analysis Date: 4/5/2021 05:46 PM	
Client ID:		Run ID: SVMS6_210405A			SeqNo: 7279856		Prep Date: 4/5/2021		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1084	4.0	1295	80.66	77.5	40-140	1216	11.5	30	
Anthracene	1174	4.0	1295	28.23	88.5	40-140	1327	12.2	30	
Benzo(a)anthracene	1058	4.0	1295	7.482	81.1	40-140	1198	12.4	30	
Benzo(a)pyrene	925.6	4.0	1295	5.82	71.1	40-140	1088	16.1	30	
Benzo(b)fluoranthene	1029	4.0	1295	7.678	78.9	40-140	1168	12.7	30	
Benzo(k)fluoranthene	902.3	4.0	1295	0	69.7	40-140	1071	17.1	30	
Chrysene	1075	4.0	1295	7.906	82.4	40-140	1201	11.1	30	
Dibenzo(a,h)anthracene	1115	4.0	1295	0	86.1	40-140	1232	10	30	
Fluoranthene	954.1	4.0	1295	10.37	72.9	40-140	1139	17.6	30	
Fluorene	1172	4.0	1295	146.9	79.2	40-140	1320	11.9	30	
Indeno(1,2,3-cd)pyrene	1128	4.0	1295	4.988	86.8	40-140	1273	12.1	30	
Naphthalene	1197	4.0	1295	219.4	75.5	40-140	1249	4.27	30	
Pyrene	951.7	4.0	1295	71.16	68	40-140	1169	20.5	30	
Surr: 2-Fluorobiphenyl	2636	0	3237	0	81.5	20-140	2874	8.61	30	
Surr: 4-Terphenyl-d14	2198	0	3237	0	67.9	22-172	2613	17.2	30	
Surr: Nitrobenzene-d5	2253	0	3237	0	69.6	28-140	2362	4.74	30	

The following samples were analyzed in this batch:

21040264-02A

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

Client: Entrada Consulting Group
 Work Order: 21040264
 Project: Levison 13 Resampling

QC BATCH REPORT

Batch ID: **R313521** Instrument ID **MOIST** Method: **SW3550C**

MBLK		Sample ID: WBLKS-R313521				Units: % of sample		Analysis Date: 4/6/2021 02:18 PM		
Client ID:		Run ID: MOIST_210406C				SeqNo: 7282682		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-R313521				Units: % of sample		Analysis Date: 4/6/2021 02:18 PM		
Client ID:		Run ID: MOIST_210406C				SeqNo: 7282681		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: 21040154-01A DUP				Units: % of sample		Analysis Date: 4/6/2021 02:18 PM		
Client ID:		Run ID: MOIST_210406C				SeqNo: 7282661		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	3.96	0.10	0	0	0	0-0	4.5	12.8	10	R

DUP		Sample ID: 21040154-11B DUP				Units: % of sample		Analysis Date: 4/6/2021 02:18 PM		
Client ID:		Run ID: MOIST_210406C				SeqNo: 7282672		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	2.01	0.10	0	0	0	0-0	2.04	1.48	10	

The following samples were analyzed in this batch:

21040264-02A

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



Chain of Custody Form

Page 1 of 1

COC ID: 123456

☐ Cincinnati, OH
+1 513 733 5336
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+1 281 530 5656
☐ Middletown, PA
+1 717 944 5541

☐ Salt Lake City, UT
+1 801 266 7700
☐ Spring City, PA
+1 610 948 4903
☐ York, PA
+1 717 505 5280

Customer Information			Project Information				Parameter/Method Request for Analysis											
Purchase Order		Project Name	Levison 13 Resampling				A TPH (GRO & DRO)											
Work Order		Project Number	018-065				B BTEX											
Company Name	Entrada Consulting Group	Bill To Company	Entrada Consulting Group				C PAH (See Attached List) CO Table 910											
Send Report To	Tim Dobransky	Invoice Attn	Tim Dobransky				D Electrical Conductivity											
Address	330 Grand Ave, Suite C	Address					E Sodium Adsorption Ratio											
City/State/Zip	Grand Junction, CO 81501	City/State/Zip					F pH											
Phone	970.270.2986	Phone					G Metals (See Attached List) CO Table 910											
Fax		Fax					H Arsenic Only											
e-Mail Address	tdobransky@entradainc.com	e-Mail Address	tdobransky@entradainc.com				I											
							J											
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold	
1	LEV13-SS1	04/01/21	930	Soil	8	1				X								
2	LEV13-SS4	04/01/21	945	Soil	8	2			X	X	X							
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		

Sampler(s): Please Print & Sign Tim Dobransky			Shipment Method: FedEx		Required Turnaround Time: <input type="checkbox"/> STD 10 Wk Days <input type="checkbox"/> 5 Wk Days <input type="checkbox"/> 2 Wk Days <input type="checkbox"/> 24 Hour			Results Due Date:	
Relinquished by:		Date:	Time:	Received by:		Notes: 3 Day Rush			
Relinquished by:		Date: 4-2-21	Time: 1800	Received by (Laboratory):		QC Package: (Check Box Below)			
Logged by (Laboratory):		Date: 4/5/21	Time: 0900	Checked by (Laboratory):		Cooler Temp. 12/ 4.2°C	<input checked="" type="checkbox"/> Level II: Standard QC <input type="checkbox"/> Level III: Std QC + Raw Data <input type="checkbox"/> Level IV: SW846 CLP-Like Other:		
Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4 degrees C 9-5035									

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

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Sample Receipt Checklist

Client Name: **ENTRADA**

Date/Time Received: **03-Apr-21 09:30**

Work Order: **21040264**

Received by: **DS**

Checklist completed by **Diane Shaw**

05-Apr-21

Reviewed by: **Chad Whelton**

05-Apr-21

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): **4.2/4.2 c** **IR1**

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage: **4/5/2021 8:53:04 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: