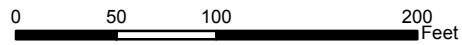


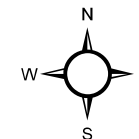


Legend

- Spill Origin
- Soil Sample Location
- Spill Path



1 inch = 96 feet



PROJECT NO:	017-031
DRAWN BY:	TPD
DATE:	08/07/18

FEE 99X
 SPILL RESPONSE
 CHEVRON USA, INC
 RIO BLANCO COUNTY, COLORADO
 NWNW & NENW S19 & SWSW & SESW S18 T2N



240 MESA AVENUE
 GRAND JUNCTION, CO 81501
 TEL 970.270.2986
 www.entradainc.com

FIGURE

1

**Table 1
FEE 99X
Soil Data Summary**

SAMPLE SUMMARY	
Location Description	FEE 99X
Sample Type	Soil

LABORATORY DATA SUMMARY										
Sample ID	FEE99X-SS1	FEE99X-SS1	FEE99X-SS1	FEE99X-SS2	FEE99X-SS3	FEE99X-SS3	FEE99X-BG1	FEE99X-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"		
Sample Date	3/19/2014	11/2/2016	10/6/2017	3/19/2014	3/19/2014	11/2/2016	3/19/2014	3/19/2014		
Analytical Parameters										
TPH										
TPH Gasoline Range Organics	260	<3.8	NT	27	460	<3.9	NT	NT	500	mg/kg
TPH Diesel Range Organics	1700	14	NT	310	5700	12	NT	NT		
BTEX										
Benzene	0.042	NT	NT	<0.034	<3.3	NT	NT	NT	0.17	mg/kg
Toluene	0.1	NT	NT	<0.034	<3.3	NT	NT	NT	85	mg/kg
Ethylbenzene	0.11	NT	NT	<0.034	<3.3	NT	NT	NT	100	mg/kg
Total Xylene	0.92	NT	NT	<0.100	25	NT	NT	NT	175	mg/kg
Metals										
Arsenic	6.5	NT	NT	6.70	6.6	NT	6.2	6.8	0.39	mg/kg
Barium	140	NT	NT	210	220	NT	150	NT	15,000	mg/kg
Cadmium	0.91	NT	NT	<0.90	<0.89	NT	0.86	NT	70	mg/kg
Chromium	11	NT	NT	12	14	NT	12	NT	NA	mg/kg
Copper	18	NT	NT	16	16	NT	18	NT	3,100	mg/kg
Lead	18	NT	NT	20	17	NT	20	NT	400	mg/kg
Mercury	0.042	NT	NT	0.029	0.024	NT	0.041	NT	23	mg/kg
Nickel	21	NT	NT	20	22	NT	22	NT	1,600	mg/kg
Selenium	3	NT	NT	2.6	2.9	NT	3	NT	390	mg/kg
Silver	<2.2	NT	NT	<2.2	<2.2	NT	<1.9	NT	390	mg/kg
Zinc	85	NT	NT	80	78	NT	91	NT	23,000	mg/kg
SAR Metals Analysis										
Calcium	520	350	120	570	240	NT	460	NT	NA	mg/L
Magnesium	170	40	19	64	26	NT	43	NT	NA	mg/L
Sodium	1400	980	130	170	140	NT	34	NT	NA	mg/L
Sodium Adsorption Ratio	14	13	2.9	1.8	2.3	NT	0.4	NT	<12	ratio
Polynuclear Aromatic Hydrocarbons										
Acenaphthene	0.042	NT	NT	<0.0074	<0.290	NT	NT	NT	1,000	mg/kg
Anthracene	0.082	NT	NT	<0.0074	2.6	NT	NT	NT	1,000	mg/kg
Benzo(a)anthracene	<0.0076	NT	NT	<0.0074	1.7	<0.0085	NT	NT	0.22	mg/kg
Benzo(a)pyrene	<0.0076	NT	NT	<0.0074	<0.290	NT	NT	NT	0.022	mg/kg
Benzo(b)fluoranthene	<0.0076	NT	NT	<0.0074	<0.290	NT	NT	NT	0.22	mg/kg
Benzo(k)fluoranthene	<0.0076	NT	NT	<0.0074	<0.290	NT	NT	NT	2.2	mg/kg
Chrysene	<0.0076	NT	NT	<0.0074	1.2	NT	NT	NT	22	mg/kg
Dibenzo(a,h)anthracene	<0.0076	NT	NT	<0.0074	<0.290	NT	NT	NT	0.022	mg/kg
Fluoranthene	0.066	NT	NT	0.05	1.2	NT	NT	NT	1,000	mg/kg
Fluorene	0.16	NT	NT	0.023	3.7	NT	NT	NT	1,000	mg/kg
Indeno(1,2,3-cd)pyrene	<0.0076	NT	NT	<0.0074	<0.290	NT	NT	NT	0.22	mg/kg
Napthalene	0.1	NT	NT	<0.0074	10	NT	NT	NT	23	mg/kg
Pyrene	0.07	NT	NT	0.038	1.1	NT	NT	NT	1,000	mg/kg
General Chemistry										
Chromium, Hexavalent	<0.58	NT	NT	<0.55	<0.54	NT	<0.56	NT	23	mg/kg
Chromium, Trivalent	11	NT	NT	12	14	NT	12	NT	120,000	mg/kg
Specific Conductivity	12	9.4	1.4	4.8	2.3	NT	3.2	NT	<4 or 2 x the background	mmhos/cm
pH	7.6	NT	NT	7.8	7.7	NT	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



01-Apr-2014

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

Re: **Chevron FEE 99X 3.19.14**

Work Order: **1403949**

Dear Tim,

ALS Environmental received 5 samples on 21-Mar-2014 09:00 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 34.

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

Sincerely,

A handwritten signature in cursive script that reads "Ann Preston".

Electronically approved by: Ann Preston

Ann Preston
Project Manager



Certificate No: MN 532786

Report of Laboratory Analysis

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

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Environmental

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RIGHT SOLUTIONS RIGHT PARTNER

Client: Olsson Associates
Project: Chevron FEE 99X 3.19.14
Work Order: 1403949

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>
1403949-01	FEE99X-SS1	Soil		3/19/2014 10:05	3/21/2014 09:00	<input type="checkbox"/>
1403949-02	FEE99X-BG1	Soil		3/19/2014 10:20	3/21/2014 09:00	<input type="checkbox"/>
1403949-03	FEE99X-SS2	Soil		3/19/2014 10:15	3/21/2014 09:00	<input type="checkbox"/>
1403949-04	FEE99X-BG2	Soil		3/19/2014 10:40	3/21/2014 09:00	<input type="checkbox"/>
1403949-05	FEE99X-SS3	Soil		3/19/2014 10:35	3/21/2014 09:00	<input type="checkbox"/>

Client: Olsson Associates
Project: Chevron FEE 99X 3.19.14
Work Order: 1403949

Case Narrative

Batch 56820 sample 1403949-01 and 1403949-05 DRO surrogate recoveries were high due to matrix interference. No data requires qualification. The MS/MSD data for DRO is not related to this project's samples. No data requires qualification.

Batch 56881 MS/MSD data for Metals is not related to this project's samples. No data requires qualification.

Batch 56895 MS/MSD data for Hexavalent Chromium is not related to this project's samples. No data requires qualification.

<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

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

<u>Units Reported</u>	<u>Description</u>
% of sample	Percent of Sample
µg/Kg-dry	Micrograms per Kilogram Dry Weight
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: 01-Apr-14

Client: Olsson Associates
Project: Chevron FEE 99X 3.19.14
Sample ID: FEE99X-SS1
Collection Date: 3/19/2014 10:05 AM

Work Order: 1403949
Lab ID: 1403949-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
DRO (C10-C28)	1,700		SW8015M		Prep: SW3541 / 3/24/14	Analyst: IT
<i>Surr: 4-Terphenyl-d14</i>	403	S	4.8	mg/Kg-dry	1	3/25/2014 01:39 PM
			39-115	%REC	1	3/25/2014 01:39 PM
GASOLINE RANGE ORGANICS BY GC-FID						
GRO (C6-C10)	260		SW8015		Prep: SW5035 / 3/24/14	Analyst: IT
<i>Surr: Toluene-d8</i>	102		2.9	mg/Kg-dry	1	3/26/2014 05:57 AM
			50-150	%REC	1	3/26/2014 05:57 AM
MERCURY BY CVAA						
Mercury	0.042		SW7471		Prep: SW7471 / 3/26/14	Analyst: LR
			0.018	mg/Kg-dry	1	3/26/2014 02:06 PM
METALS BY ICP-MS						
Arsenic	6.5		SW6020A		Prep: SW3050B / 3/25/14	Analyst: ML
Barium	140		2.2	mg/Kg-dry	5	3/25/2014 09:09 PM
Cadmium	0.91		2.2	mg/Kg-dry	5	3/25/2014 09:09 PM
Chromium	11		0.90	mg/Kg-dry	5	3/25/2014 09:09 PM
Copper	18		2.2	mg/Kg-dry	5	3/25/2014 09:09 PM
Lead	18		2.2	mg/Kg-dry	5	3/25/2014 09:09 PM
Nickel	21		2.2	mg/Kg-dry	5	3/25/2014 09:09 PM
Selenium	3.0		2.2	mg/Kg-dry	5	3/25/2014 09:09 PM
Silver	ND		2.2	mg/Kg-dry	5	3/25/2014 09:09 PM
Zinc	85		4.5	mg/Kg-dry	5	3/25/2014 09:09 PM
SOLUBLE CATIONS FOR SAR						
			SW6020A		Prep: USDA Method 20B / 3/25/14	Analyst: RH
Calcium	520		10	mg/L	20	3/25/2014 03:08 PM
Magnesium	170		4.0	mg/L	20	3/25/2014 03:08 PM
Sodium	1,400		4.0	mg/L	20	3/25/2014 03:08 PM
SODIUM ADSORPTION RATIO						
			USDA H60 METHO		Prep: USDA Method 20B / 3/25/14	Analyst: RH
Sodium Adsorption Ratio	14		0.010	none	1	3/25/2014
SEMI-VOLATILE ORGANIC COMPOUNDS						
			SW8270		Prep: SW3541 / 3/24/14	Analyst: RM
Acenaphthene	42		7.6	µg/Kg-dry	1	3/25/2014 10:53 PM
Anthracene	82		7.6	µg/Kg-dry	1	3/25/2014 10:53 PM
Benzo(a)anthracene	ND		7.6	µg/Kg-dry	1	3/25/2014 10:53 PM
Benzo(a)pyrene	ND		7.6	µg/Kg-dry	1	3/25/2014 10:53 PM
Benzo(b)fluoranthene	ND		7.6	µg/Kg-dry	1	3/25/2014 10:53 PM
Benzo(k)fluoranthene	ND		7.6	µg/Kg-dry	1	3/25/2014 10:53 PM
Chrysene	ND		7.6	µg/Kg-dry	1	3/25/2014 10:53 PM
Dibenzo(a,h)anthracene	ND		7.6	µg/Kg-dry	1	3/25/2014 10:53 PM
Fluoranthene	66		7.6	µg/Kg-dry	1	3/25/2014 10:53 PM

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

ALS Group USA, Corp

Date: 01-Apr-14

Client: Olsson Associates
Project: Chevron FEE 99X 3.19.14
Sample ID: FEE99X-SS1
Collection Date: 3/19/2014 10:05 AM

Work Order: 1403949
Lab ID: 1403949-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	160		7.6	µg/Kg-dry	1	3/25/2014 10:53 PM
Indeno(1,2,3-cd)pyrene	ND		7.6	µg/Kg-dry	1	3/25/2014 10:53 PM
Naphthalene	100		7.6	µg/Kg-dry	1	3/25/2014 10:53 PM
Pyrene	70		7.6	µg/Kg-dry	1	3/25/2014 10:53 PM
Surr: 2-Fluorobiphenyl	83.0		12-100	%REC	1	3/25/2014 10:53 PM
Surr: 4-Terphenyl-d14	86.0		25-137	%REC	1	3/25/2014 10:53 PM
Surr: Nitrobenzene-d5	95.6		37-107	%REC	1	3/25/2014 10:53 PM
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 3/21/14	Analyst: RS
Benzene	42		35	µg/Kg-dry	1	3/26/2014 07:56 AM
Ethylbenzene	110		35	µg/Kg-dry	1	3/26/2014 07:56 AM
m,p-Xylene	700		69	µg/Kg-dry	1	3/26/2014 07:56 AM
o-Xylene	230		35	µg/Kg-dry	1	3/26/2014 07:56 AM
Toluene	100		35	µg/Kg-dry	1	3/26/2014 07:56 AM
Xylenes, Total	920		100	µg/Kg-dry	1	3/26/2014 07:56 AM
Surr: 1,2-Dichloroethane-d4	101		70-130	%REC	1	3/26/2014 07:56 AM
Surr: 4-Bromofluorobenzene	95.9		70-130	%REC	1	3/26/2014 07:56 AM
Surr: Dibromofluoromethane	91.2		70-130	%REC	1	3/26/2014 07:56 AM
Surr: Toluene-d8	103		70-130	%REC	1	3/26/2014 07:56 AM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO		Prep: USDA Method 20B / 3/25/14	Analyst: JB
Electrical Conductivity @ Saturation	12		0.050	mmhos/cm @25	10	3/25/2014 04:00 PM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: JJG
Chromium, Trivalent	11		0.58	mg/Kg-dry	1	3/27/2014 07:56 AM
CHROMIUM, HEXAVALENT			SW7196A		Prep: SW3060A / 3/24/14	Analyst: MB
Chromium, Hexavalent	ND		0.58	mg/Kg-dry	1	3/25/2014 03:00 PM
MOISTURE			A2540 G			Analyst: AT
Moisture	13		0.050	% of sample	1	3/24/2014 11:12 AM
PH			SW9045D		Prep: EXTRACT / 3/24/14	Analyst: AT
pH	7.6			s.u.	1	3/24/2014 03:00 PM

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

ALS Group USA, Corp

Date: 01-Apr-14

Client: Olsson Associates
 Project: Chevron FEE 99X 3.19.14
 Sample ID: FEE99X-BG1
 Collection Date: 3/19/2014 10:20 AM

Work Order: 1403949
 Lab ID: 1403949-02
 Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA			SW7471		Prep: SW7471 / 3/26/14	Analyst: LR
Mercury	0.041		0.017	mg/Kg-dry	1	3/26/2014 02:08 PM
METALS BY ICP-MS			SW6020A		Prep: SW3050B / 3/25/14	Analyst: ML
Arsenic	6.2		1.9	mg/Kg-dry	5	3/25/2014 09:15 PM
Barium	150		1.9	mg/Kg-dry	5	3/25/2014 09:15 PM
Cadmium	0.86		0.77	mg/Kg-dry	5	3/25/2014 09:15 PM
Chromium	12		1.9	mg/Kg-dry	5	3/25/2014 09:15 PM
Copper	18		1.9	mg/Kg-dry	5	3/25/2014 09:15 PM
Lead	20		1.9	mg/Kg-dry	5	3/25/2014 09:15 PM
Nickel	22		1.9	mg/Kg-dry	5	3/25/2014 09:15 PM
Selenium	3.0		1.9	mg/Kg-dry	5	3/25/2014 09:15 PM
Silver	ND		1.9	mg/Kg-dry	5	3/25/2014 09:15 PM
Zinc	91		3.8	mg/Kg-dry	5	3/25/2014 09:15 PM
SOLUBLE CATIONS FOR SAR			SW6020A		Prep: USDA Method 20B / 3/25/14	Analyst: RH
Calcium	460		10	mg/L	20	3/25/2014 03:14 PM
Magnesium	43		4.0	mg/L	20	3/25/2014 03:14 PM
Sodium	34		4.0	mg/L	20	3/25/2014 03:14 PM
SODIUM ADSORPTION RATIO			USDA H60 METHO		Prep: USDA Method 20B / 3/25/14	Analyst: RH
Sodium Adsorption Ratio	0.40		0.010	none	1	3/25/2014
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO		Prep: USDA Method 20B / 3/25/14	Analyst: JB
Electrical Conductivity @ Saturation	3.2		0.050	mmhos/cm @25	10	3/25/2014 04:00 PM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: JJG
Chromium, Trivalent	12		0.57	mg/Kg-dry	1	3/27/2014 07:56 AM
CHROMIUM, HEXAVALENT			SW7196A		Prep: SW3060A / 3/24/14	Analyst: MB
Chromium, Hexavalent	ND		0.56	mg/Kg-dry	1	3/25/2014 03:00 PM
MOISTURE			A2540 G			Analyst: AT
Moisture	12		0.050	% of sample	1	3/24/2014 11:12 AM
PH			SW9045D		Prep: EXTRACT / 3/24/14	Analyst: AT
pH	7.8			s.u.	1	3/24/2014 03:00 PM

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

ALS Group USA, Corp

Date: 01-Apr-14

Client: Olsson Associates
Project: Chevron FEE 99X 3.19.14
Sample ID: FEE99X-SS2
Collection Date: 3/19/2014 10:15 AM

Work Order: 1403949
Lab ID: 1403949-03
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
			SW8015M		Prep: SW3541 / 3/24/14	Analyst: IT
DRO (C10-C28)	310		4.7	mg/Kg-dry	1	3/25/2014 02:09 PM
<i>Surr: 4-Terphenyl-d14</i>	73.3		39-115	%REC	1	3/25/2014 02:09 PM
GASOLINE RANGE ORGANICS BY GC-FID						
			SW8015		Prep: SW5035 / 3/24/14	Analyst: IT
GRO (C6-C10)	27		2.8	mg/Kg-dry	1	3/26/2014 06:22 AM
<i>Surr: Toluene-d8</i>	116		50-150	%REC	1	3/26/2014 06:22 AM
MERCURY BY CVAA						
			SW7471		Prep: SW7471 / 3/26/14	Analyst: LR
Mercury	0.029		0.015	mg/Kg-dry	1	3/26/2014 02:10 PM
METALS BY ICP-MS						
			SW6020A		Prep: SW3050B / 3/25/14	Analyst: ML
Arsenic	6.7		2.2	mg/Kg-dry	5	3/25/2014 09:21 PM
Barium	210		2.2	mg/Kg-dry	5	3/25/2014 09:21 PM
Cadmium	ND		0.90	mg/Kg-dry	5	3/25/2014 09:21 PM
Chromium	12		2.2	mg/Kg-dry	5	3/25/2014 09:21 PM
Copper	16		2.2	mg/Kg-dry	5	3/25/2014 09:21 PM
Lead	20		2.2	mg/Kg-dry	5	3/25/2014 09:21 PM
Nickel	20		2.2	mg/Kg-dry	5	3/25/2014 09:21 PM
Selenium	2.6		2.2	mg/Kg-dry	5	3/25/2014 09:21 PM
Silver	ND		2.2	mg/Kg-dry	5	3/25/2014 09:21 PM
Zinc	80		4.5	mg/Kg-dry	5	3/25/2014 09:21 PM
SOLUBLE CATIONS FOR SAR						
			SW6020A		Prep: USDA Method 20B / 3/25/14	Analyst: RH
Calcium	570		10	mg/L	20	3/25/2014 03:19 PM
Magnesium	64		4.0	mg/L	20	3/25/2014 03:19 PM
Sodium	170		4.0	mg/L	20	3/25/2014 03:19 PM
SODIUM ADSORPTION RATIO						
			USDA H60 METHO		Prep: USDA Method 20B / 3/25/14	Analyst: RH
Sodium Adsorption Ratio	1.8		0.010	none	1	3/25/2014
SEMI-VOLATILE ORGANIC COMPOUNDS						
			SW8270		Prep: SW3541 / 3/24/14	Analyst: RM
Acenaphthene	ND		7.4	µg/Kg-dry	1	3/25/2014 11:13 PM
Anthracene	ND		7.4	µg/Kg-dry	1	3/25/2014 11:13 PM
Benzo(a)anthracene	ND		7.4	µg/Kg-dry	1	3/25/2014 11:13 PM
Benzo(a)pyrene	ND		7.4	µg/Kg-dry	1	3/25/2014 11:13 PM
Benzo(b)fluoranthene	ND		7.4	µg/Kg-dry	1	3/25/2014 11:13 PM
Benzo(k)fluoranthene	ND		7.4	µg/Kg-dry	1	3/25/2014 11:13 PM
Chrysene	ND		7.4	µg/Kg-dry	1	3/25/2014 11:13 PM
Dibenzo(a,h)anthracene	ND		7.4	µg/Kg-dry	1	3/25/2014 11:13 PM
Fluoranthene	50		7.4	µg/Kg-dry	1	3/25/2014 11:13 PM

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

ALS Group USA, Corp

Date: 01-Apr-14

Client: Olsson Associates
Project: Chevron FEE 99X 3.19.14
Sample ID: FEE99X-SS2
Collection Date: 3/19/2014 10:15 AM

Work Order: 1403949
Lab ID: 1403949-03
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	23		7.4	µg/Kg-dry	1	3/25/2014 11:13 PM
Indeno(1,2,3-cd)pyrene	ND		7.4	µg/Kg-dry	1	3/25/2014 11:13 PM
Naphthalene	ND		7.4	µg/Kg-dry	1	3/25/2014 11:13 PM
Pyrene	38		7.4	µg/Kg-dry	1	3/25/2014 11:13 PM
Surr: 2-Fluorobiphenyl	41.4		12-100	%REC	1	3/25/2014 11:13 PM
Surr: 4-Terphenyl-d14	50.0		25-137	%REC	1	3/25/2014 11:13 PM
Surr: Nitrobenzene-d5	38.6		37-107	%REC	1	3/25/2014 11:13 PM
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 3/24/14	Analyst: RS
Benzene	ND		34	µg/Kg-dry	1	3/25/2014 10:06 AM
Ethylbenzene	ND		34	µg/Kg-dry	1	3/25/2014 10:06 AM
m,p-Xylene	ND		68	µg/Kg-dry	1	3/25/2014 10:06 AM
o-Xylene	ND		34	µg/Kg-dry	1	3/25/2014 10:06 AM
Toluene	ND		34	µg/Kg-dry	1	3/25/2014 10:06 AM
Xylenes, Total	ND		100	µg/Kg-dry	1	3/25/2014 10:06 AM
Surr: 1,2-Dichloroethane-d4	100		70-130	%REC	1	3/25/2014 10:06 AM
Surr: 4-Bromofluorobenzene	102		70-130	%REC	1	3/25/2014 10:06 AM
Surr: Dibromofluoromethane	91.8		70-130	%REC	1	3/25/2014 10:06 AM
Surr: Toluene-d8	95.2		70-130	%REC	1	3/25/2014 10:06 AM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO		Prep: USDA Method 20B / 3/25/14	Analyst: JB
Electrical Conductivity @ Saturation	4.8		0.050	mmhos/cm @25	10	3/25/2014 04:00 PM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: JJG
Chromium, Trivalent	12		0.56	mg/Kg-dry	1	3/27/2014 07:56 AM
CHROMIUM, HEXAVALENT			SW7196A		Prep: SW3060A / 3/24/14	Analyst: MB
Chromium, Hexavalent	ND		0.55	mg/Kg-dry	1	3/25/2014 03:00 PM
MOISTURE			A2540 G			Analyst: AT
Moisture	11		0.050	% of sample	1	3/24/2014 11:12 AM
PH			SW9045D		Prep: EXTRACT / 3/24/14	Analyst: AT
pH	7.8			s.u.	1	3/24/2014 03:00 PM

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

ALS Group USA, Corp

Date: 01-Apr-14

Client: Olsson Associates
Project: Chevron FEE 99X 3.19.14
Sample ID: FEE99X-BG2
Collection Date: 3/19/2014 10:40 AM

Work Order: 1403949
Lab ID: 1403949-04
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			SW6020A		Prep: SW3050B / 3/25/14	Analyst: ML
Arsenic	6.8		2.2	mg/Kg-dry	5	3/25/2014 11:22 PM
MOISTURE			A2540 G			Analyst: AT
Moisture	13		0.050	% of sample	1	3/24/2014 09:30 AM

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

ALS Group USA, Corp

Date: 01-Apr-14

Client: Olsson Associates
Project: Chevron FEE 99X 3.19.14
Sample ID: FEE99X-SS3
Collection Date: 3/19/2014 10:35 AM

Work Order: 1403949
Lab ID: 1403949-05
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M		Prep: SW3541 / 3/24/14	Analyst: IT
DRO (C10-C28)	5,700		18	mg/Kg-dry	4	3/25/2014 02:39 PM
<i>Surr: 4-Terphenyl-d14</i>	1,210	S	39-115	%REC	4	3/25/2014 02:39 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015		Prep: SW5035 / 3/24/14	Analyst: IT
GRO (C6-C10)	460		2.7	mg/Kg-dry	1	3/26/2014 06:48 AM
<i>Surr: Toluene-d8</i>	105		50-150	%REC	1	3/26/2014 06:48 AM
MERCURY BY CVAA			SW7471		Prep: SW7471 / 3/26/14	Analyst: LR
Mercury	0.024		0.017	mg/Kg-dry	1	3/26/2014 02:12 PM
METALS BY ICP-MS			SW6020A		Prep: SW3050B / 3/25/14	Analyst: ML
Arsenic	6.6		2.2	mg/Kg-dry	5	3/25/2014 11:28 PM
Barium	220		2.2	mg/Kg-dry	5	3/25/2014 11:28 PM
Cadmium	ND		0.89	mg/Kg-dry	5	3/25/2014 11:28 PM
Chromium	14		2.2	mg/Kg-dry	5	3/25/2014 11:28 PM
Copper	16		2.2	mg/Kg-dry	5	3/25/2014 11:28 PM
Lead	17		2.2	mg/Kg-dry	5	3/25/2014 11:28 PM
Nickel	22		2.2	mg/Kg-dry	5	3/25/2014 11:28 PM
Selenium	2.9		2.2	mg/Kg-dry	5	3/25/2014 11:28 PM
Silver	ND		2.2	mg/Kg-dry	5	3/25/2014 11:28 PM
Zinc	78		4.5	mg/Kg-dry	5	3/25/2014 11:28 PM
SOLUBLE CATIONS FOR SAR			SW6020A		Prep: USDA Method 20B / 3/25/14	Analyst: RH
Calcium	240		10	mg/L	20	3/25/2014 03:25 PM
Magnesium	26		4.0	mg/L	20	3/25/2014 03:25 PM
Sodium	140		4.0	mg/L	20	3/25/2014 03:25 PM
SODIUM ADSORPTION RATIO			USDA H60 METHO		Prep: USDA Method 20B / 3/25/14	Analyst: RH
Sodium Adsorption Ratio	2.3		0.010	none	1	3/25/2014
SEMI-VOLATILE ORGANIC COMPOUNDS			SW8270		Prep: SW3541 / 3/26/14	Analyst: RM
Acenaphthene	ND		290	µg/Kg-dry	5	3/26/2014 07:16 PM
Anthracene	2,600		290	µg/Kg-dry	5	3/26/2014 07:16 PM
Benzo(a)anthracene	1,700		290	µg/Kg-dry	5	3/26/2014 07:16 PM
Benzo(a)pyrene	ND		290	µg/Kg-dry	5	3/26/2014 07:16 PM
Benzo(b)fluoranthene	ND		290	µg/Kg-dry	5	3/26/2014 07:16 PM
Benzo(k)fluoranthene	ND		290	µg/Kg-dry	5	3/26/2014 07:16 PM
Chrysene	1,200		290	µg/Kg-dry	5	3/26/2014 07:16 PM
Dibenzo(a,h)anthracene	ND		290	µg/Kg-dry	5	3/26/2014 07:16 PM
Fluoranthene	1,200		290	µg/Kg-dry	5	3/26/2014 07:16 PM

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

ALS Group USA, Corp

Date: 01-Apr-14

Client: Olsson Associates
Project: Chevron FEE 99X 3.19.14
Sample ID: FEE99X-SS3
Collection Date: 3/19/2014 10:35 AM

Work Order: 1403949
Lab ID: 1403949-05
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	3,700		290	µg/Kg-dry	5	3/26/2014 07:16 PM
Indeno(1,2,3-cd)pyrene	ND		290	µg/Kg-dry	5	3/26/2014 07:16 PM
Naphthalene	10,000		290	µg/Kg-dry	5	3/26/2014 07:16 PM
Pyrene	1,100		290	µg/Kg-dry	5	3/26/2014 07:16 PM
Surr: 2-Fluorobiphenyl	91.2		12-100	%REC	5	3/26/2014 07:16 PM
Surr: 4-Terphenyl-d14	108		25-137	%REC	5	3/26/2014 07:16 PM
Surr: Nitrobenzene-d5	83.2		37-107	%REC	5	3/26/2014 07:16 PM
VOLATILE ORGANIC COMPOUNDS			SW8260B		Prep: SW5035 / 3/24/14	Analyst: BG
Benzene	ND		3,300	µg/Kg-dry	100	3/25/2014 04:07 AM
Ethylbenzene	ND		3,300	µg/Kg-dry	100	3/25/2014 04:07 AM
m,p-Xylene	16,000		6,600	µg/Kg-dry	100	3/25/2014 04:07 AM
o-Xylene	8,500		3,300	µg/Kg-dry	100	3/25/2014 04:07 AM
Toluene	ND		3,300	µg/Kg-dry	100	3/25/2014 04:07 AM
Xylenes, Total	25,000		9,900	µg/Kg-dry	100	3/25/2014 04:07 AM
Surr: 1,2-Dichloroethane-d4	99.8		70-130	%REC	100	3/25/2014 04:07 AM
Surr: 4-Bromofluorobenzene	99.4		70-130	%REC	100	3/25/2014 04:07 AM
Surr: Dibromofluoromethane	101		70-130	%REC	100	3/25/2014 04:07 AM
Surr: Toluene-d8	97.6		70-130	%REC	100	3/25/2014 04:07 AM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO		Prep: USDA Method 20B / 3/25/14	Analyst: JB
Electrical Conductivity @ Saturation	2.3		0.050	mmhos/cm @25	10	3/25/2014 04:00 PM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: JJG
Chromium, Trivalent	14		0.55	mg/Kg-dry	1	3/27/2014 07:56 AM
CHROMIUM, HEXAVALENT			SW7196A		Prep: SW3060A / 3/24/14	Analyst: MB
Chromium, Hexavalent	ND		0.54	mg/Kg-dry	1	3/25/2014 03:00 PM
MOISTURE			A2540 G			Analyst: AT
Moisture	8.8		0.050	% of sample	1	3/24/2014 11:12 AM
PH			SW9045D		Prep: EXTRACT / 3/24/14	Analyst: AT
pH	7.7			s.u.	1	3/24/2014 03:00 PM

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

Client: Olsson Associates

QC BATCH REPORT

Work Order: 1403949

Project: Chevron FEE 99X 3.19.14

Batch ID: **56820**

Instrument ID **GC8**

Method: **SW8015M**

MBLK		Sample ID: DBLKS1-56820-56820				Units: mg/Kg		Analysis Date: 3/25/2014 01:51 AM			
Client ID:		Run ID: GC8_140324A		SeqNo: 2683337		Prep Date: 3/24/2014		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
DRO (C10-C28)	ND	4.2									
<i>Surr: 4-Terphenyl-d14</i>	1.238	0	1.667	0	74.3	39-115	0				

LCS		Sample ID: DLCSS1-56820-56820				Units: mg/Kg		Analysis Date: 3/25/2014 02:21 AM			
Client ID:		Run ID: GC8_140324A		SeqNo: 2683341		Prep Date: 3/24/2014		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
DRO (C10-C28)	148.6	4.2	166.7	0	89.1	49-124	0				
<i>Surr: 4-Terphenyl-d14</i>	1.224	0	1.667	0	73.5	39-115	0				

MS		Sample ID: 1403950-07A MS				Units: mg/Kg		Analysis Date: 3/25/2014 02:51 AM			
Client ID:		Run ID: GC8_140324A		SeqNo: 2683342		Prep Date: 3/24/2014		DF: 10			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
DRO (C10-C28)	585.2	82	328.8	188.2	121	49-130	0				
<i>Surr: 4-Terphenyl-d14</i>	2.677	0	3.288	0	81.4	39-115	0				

MSD		Sample ID: 1403950-07A MSD				Units: mg/Kg		Analysis Date: 3/25/2014 03:21 AM			
Client ID:		Run ID: GC8_140324A		SeqNo: 2683343		Prep Date: 3/24/2014		DF: 10			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
DRO (C10-C28)	797.6	83	330.3	188.2	185	49-130	585.2	30.7	30	SR	
<i>Surr: 4-Terphenyl-d14</i>	2.285	0	3.303	0	69.2	39-115	2.677	15.8	30		

The following samples were analyzed in this batch: | 1403949-01A | 1403949-03A | 1403949-05A |

Client: Olsson Associates
 Work Order: 1403949
 Project: Chevron FEE 99X 3.19.14

QC BATCH REPORT

Batch ID: **56824** Instrument ID **GC9** Method: **SW8015**

MBLK		Sample ID: MBLK-56824-56824				Units: µg/Kg		Analysis Date: 3/24/2014 08:20 PM		
Client ID:		Run ID: GC9_140324B				SeqNo: 2683447		Prep Date: 3/24/2014		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								
<i>Surr: Toluene-d8</i>	5778	0	5000	0	116	50-150	0			

LCS		Sample ID: LCS-56824-56824				Units: µg/Kg		Analysis Date: 3/24/2014 07:54 PM		
Client ID:		Run ID: GC9_140324B				SeqNo: 2683446		Prep Date: 3/24/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	531400	2,500	500000	0	106	70-130	0			
<i>Surr: Toluene-d8</i>	4124	0	5000	0	82.5	50-150	0			

MS		Sample ID: 14031002-02B MS				Units: µg/Kg		Analysis Date: 3/25/2014 05:57 AM		
Client ID:		Run ID: GC9_140324B				SeqNo: 2683477		Prep Date: 3/24/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	550200	2,500	500000	0	110	70-130	0			
<i>Surr: Toluene-d8</i>	5148	0	5000	0	103	50-150	0			

MSD		Sample ID: 14031002-02B MSD				Units: µg/Kg		Analysis Date: 3/25/2014 06:22 AM		
Client ID:		Run ID: GC9_140324B				SeqNo: 2683479		Prep Date: 3/24/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	544900	2,500	500000	0	109	70-130	550200	0.952	30	
<i>Surr: Toluene-d8</i>	4870	0	5000	0	97.4	50-150	5148	5.53	30	

The following samples were analyzed in this batch: 1403949-01A 1403949-03A 1403949-05A

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

Client: Olsson Associates
 Work Order: 1403949
 Project: Chevron FEE 99X 3.19.14

QC BATCH REPORT

Batch ID: **56901** Instrument ID **HG1** Method: **SW7471**

MBLK		Sample ID: MBLK-56901-56901				Units: mg/Kg		Analysis Date: 3/26/2014 12:59 PM		
Client ID:		Run ID: HG1_140326A				SeqNo: 2686114		Prep Date: 3/26/2014		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-56901-56901				Units: mg/Kg		Analysis Date: 3/26/2014 01:01 PM		
Client ID:		Run ID: HG1_140326A				SeqNo: 2686115		Prep Date: 3/26/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1868 0.020 0.1665 0 112 80-120 0

MS		Sample ID: 1403950-01AMS				Units: mg/Kg		Analysis Date: 3/26/2014 02:24 PM		
Client ID:		Run ID: HG1_140326A				SeqNo: 2686141		Prep Date: 3/26/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1582 0.013 0.1085 0.03591 113 75-125 0

MSD		Sample ID: 1403950-01AMSD				Units: mg/Kg		Analysis Date: 3/26/2014 02:26 PM		
Client ID:		Run ID: HG1_140326A				SeqNo: 2686142		Prep Date: 3/26/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1607 0.013 0.1061 0.03591 118 75-125 0.1582 1.55 35

The following samples were analyzed in this batch:

1403949-01A	1403949-02A	1403949-03A
1403949-05A		

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

Client: Olsson Associates
Work Order: 1403949
Project: Chevron FEE 99X 3.19.14

QC BATCH REPORT

Batch ID: **56802** Instrument ID **ICPMS2** Method: **SW6020A**

DUP		Sample ID: 1403947-02BDUP				Units: mg/L		Analysis Date: 3/25/2014 02:34 PM		
Client ID:		Run ID: ICPMS2_140325A			SeqNo: 2684164		Prep Date:		DF: 20	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	542.4	10	0	0	0	0-0	540.6	0.332		
Magnesium	37.62	4.0	0	0	0	0-0	38.08	1.22		
Sodium	7.598	4.0	0	0	0	0-0	7.104	6.72		

DUP		Sample ID: 1403947-02BDUP				Units: none		Analysis Date: 3/25/2014		
Client ID:		Run ID: SAR_140325A			SeqNo: 2684170		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	0.0851	0.010	0	0	0		0.07968	6.58	50	

The following samples were analyzed in this batch:

1403949-01B	1403949-02B	1403949-03B
1403949-05B		

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

Client: Olsson Associates
 Work Order: 1403949
 Project: Chevron FEE 99X 3.19.14

QC BATCH REPORT

Batch ID: **56881** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK		Sample ID: MBLK-56881-56881				Units: mg/Kg		Analysis Date: 3/25/2014 04:46 PM		
Client ID:		Run ID: ICPMS1_140325A			SeqNo: 2684989		Prep Date: 3/25/2014		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	0.006355	0.10								J
Chromium	ND	0.25								
Copper	ND	0.25								
Lead	ND	0.25								
Nickel	ND	0.25								
Selenium	0.03872	0.25								J
Silver	0.00593	0.25								J
Zinc	ND	0.50								

LCS		Sample ID: LCS-56881-56881				Units: mg/Kg		Analysis Date: 3/25/2014 04:53 PM		
Client ID:		Run ID: ICPMS1_140325A			SeqNo: 2684990		Prep Date: 3/25/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.678	0.25	5	0	93.6	80-120	0			
Barium	4.905	0.25	5	0	98.1	80-120	0			
Cadmium	4.856	0.10	5	0	97.1	80-120	0			
Chromium	4.843	0.25	5	0	96.9	80-120	0			
Copper	4.817	0.25	5	0	96.3	80-120	0			
Lead	4.92	0.25	5	0	98.4	80-120	0			
Nickel	4.725	0.25	5	0	94.5	80-120	0			
Selenium	4.568	0.25	5	0	91.4	80-120	0			
Silver	4.726	0.25	5	0	94.5	80-120	0			
Zinc	4.702	0.50	5	0	94	80-120	0			

MS		Sample ID: 14031043-02BMS				Units: mg/Kg		Analysis Date: 3/25/2014 05:40 PM		
Client ID:		Run ID: ICPMS1_140325A			SeqNo: 2684997		Prep Date: 3/25/2014		DF: 5	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	13.93	1.9	7.716	5.503	109	75-125	0			
Barium	181	1.9	7.716	168.1	167	75-125	0			SO
Cadmium	8.183	0.77	7.716	0.5047	99.5	75-125	0			
Lead	19.23	1.9	7.716	10.5	113	75-125	0			

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

Client: Olsson Associates
 Work Order: 1403949
 Project: Chevron FEE 99X 3.19.14

QC BATCH REPORT

Batch ID: 56881 Instrument ID ICPMS1 Method: SW6020A

MS		Sample ID: 14031043-02BMS				Units: mg/Kg		Analysis Date: 3/26/2014 02:47 PM		
Client ID:		Run ID: ICPMS1_140326A			SeqNo: 2686417		Prep Date: 3/25/2014		DF: 5	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium	20.87	1.9	7.716	10.61	133	75-125	0			S
Copper	18.71	1.9	7.716	11.87	88.6	75-125	0			
Nickel	24.25	1.9	7.716	16.53	100	75-125	0			
Selenium	8.198	1.9	7.716	1.353	88.7	75-125	0			
Silver	6.914	1.9	7.716	0.04758	89	75-125	0			
Zinc	67.52	3.9	7.716	58.5	117	75-125	0			O

MSD		Sample ID: 14031043-02BMSD				Units: mg/Kg		Analysis Date: 3/25/2014 05:47 PM		
Client ID:		Run ID: ICPMS1_140325A			SeqNo: 2684998		Prep Date: 3/25/2014		DF: 5	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	12.64	1.9	7.764	5.503	92	75-125	13.93	9.69	25	
Barium	182.5	1.9	7.764	168.1	186	75-125	181	0.853	25	SO
Cadmium	7.943	0.78	7.764	0.5047	95.8	75-125	8.183	2.98	25	
Lead	17.9	1.9	7.764	10.5	95.3	75-125	19.23	7.18	25	

MSD		Sample ID: 14031043-02BMSD				Units: mg/Kg		Analysis Date: 3/26/2014 02:54 PM		
Client ID:		Run ID: ICPMS1_140326A			SeqNo: 2686418		Prep Date: 3/25/2014		DF: 5	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium	20.26	1.9	7.764	10.61	124	75-125	20.87	2.99	25	
Copper	18.22	1.9	7.764	11.87	81.7	75-125	18.71	2.65	25	
Nickel	23.71	1.9	7.764	16.53	92.4	75-125	24.25	2.27	25	
Selenium	8.494	1.9	7.764	1.353	92	75-125	8.198	3.54	25	
Silver	6.949	1.9	7.764	0.04758	88.9	75-125	6.914	0.508	25	
Zinc	65.41	3.9	7.764	58.5	89	75-125	67.52	3.17	25	O

The following samples were analyzed in this batch:

1403949-01A	1403949-02A	1403949-03A
1403949-04A	1403949-05A	

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

Client: Olsson Associates
 Work Order: 1403949
 Project: Chevron FEE 99X 3.19.14

QC BATCH REPORT

Batch ID: 56819 Instrument ID SVMS8 Method: SW8270

MBLK		Sample ID: SBLKS1-56819-56819				Units: µg/Kg		Analysis Date: 3/24/2014 11:56 PM		
Client ID:		Run ID: SVMS8_140324B		SeqNo: 2684409		Prep Date: 3/24/2014		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	1300	0	1667	0	78	12-100	0			
Surr: 4-Terphenyl-d14	1458	0	1667	0	87.5	25-137	0			
Surr: Nitrobenzene-d5	1242	0	1667	0	74.5	37-107	0			

LCS		Sample ID: SLCSS1-56819-56819				Units: µg/Kg		Analysis Date: 3/25/2014 12:16 AM		
Client ID:		Run ID: SVMS8_140324B		SeqNo: 2684410		Prep Date: 3/24/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	404.7	6.7	666.7	0	60.7	45-110	0			
Anthracene	593.3	6.7	666.7	0	89	55-105	0			
Benzo(a)anthracene	619	6.7	666.7	0	92.8	50-110	0			
Benzo(a)pyrene	657	6.7	666.7	0	98.5	50-110	0			
Benzo(b)fluoranthene	620.3	6.7	666.7	0	93	45-115	0			
Benzo(k)fluoranthene	583	6.7	666.7	0	87.4	45-115	0			
Chrysene	577	6.7	666.7	0	86.5	55-110	0			
Dibenzo(a,h)anthracene	637.7	6.7	666.7	0	95.6	40-125	0			
Fluoranthene	611	6.7	666.7	0	91.6	55-115	0			
Fluorene	472.3	6.7	666.7	0	70.8	50-110	0			
Indeno(1,2,3-cd)pyrene	677	6.7	666.7	0	102	40-120	0			
Naphthalene	376.3	6.7	666.7	0	56.4	40-105	0			
Pyrene	559	6.7	666.7	0	83.8	45-125	0			
Surr: 2-Fluorobiphenyl	1012	0	1667	0	60.7	12-100	0			
Surr: 4-Terphenyl-d14	1456	0	1667	0	87.3	25-137	0			
Surr: Nitrobenzene-d5	975.3	0	1667	0	58.5	37-107	0			

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

Client: Olsson Associates
 Work Order: 1403949
 Project: Chevron FEE 99X 3.19.14

QC BATCH REPORT

Batch ID: 56819 Instrument ID SVMS8 Method: SW8270

MS				Sample ID: 1403950-07A MS			Units: µg/Kg		Analysis Date: 3/25/2014 12:37 AM		
Client ID:				Run ID: SVMS8_140324B			SeqNo: 2684411		Prep Date: 3/24/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	999.7	13	1293	0	77.3	45-110	0				
Anthracene	1201	13	1293	0	92.8	55-105	0				
Benzo(a)anthracene	1225	13	1293	0	94.7	50-110	0				
Benzo(a)pyrene	1261	13	1293	0	97.5	50-110	0				
Benzo(b)fluoranthene	1195	13	1293	0	92.4	45-115	0				
Benzo(k)fluoranthene	1140	13	1293	0	88.1	45-115	0				
Chrysene	1121	13	1293	0	86.6	55-110	0				
Dibenzo(a,h)anthracene	1250	13	1293	0	96.6	40-125	0				
Fluoranthene	1222	13	1293	0	94.5	55-115	0				
Fluorene	1121	13	1293	0	86.6	50-110	0				
Indeno(1,2,3-cd)pyrene	1335	13	1293	0	103	40-120	0				
Naphthalene	862	13	1293	0	66.6	40-105	0				
Pyrene	1108	13	1293	0	85.7	45-125	0				
Surr: 2-Fluorobiphenyl	2544	0	3233	0	78.7	12-100	0				
Surr: 4-Terphenyl-d14	2890	0	3233	0	89.4	25-137	0				
Surr: Nitrobenzene-d5	2217	0	3233	0	68.6	37-107	0				

MSD				Sample ID: 1403950-07A MSD			Units: µg/Kg		Analysis Date: 3/25/2014 12:57 AM		
Client ID:				Run ID: SVMS8_140324B			SeqNo: 2684412		Prep Date: 3/24/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	1042	13	1315	0	79.2	45-110	999.7	4.11	30		
Anthracene	1242	13	1315	0	94.5	55-105	1201	3.38	30		
Benzo(a)anthracene	1240	13	1315	0	94.3	50-110	1225	1.2	30		
Benzo(a)pyrene	1283	13	1315	0	97.6	50-110	1261	1.73	30		
Benzo(b)fluoranthene	1214	13	1315	0	92.3	45-115	1195	1.57	30		
Benzo(k)fluoranthene	1156	13	1315	0	87.9	45-115	1140	1.4	30		
Chrysene	1140	13	1315	0	86.7	55-110	1121	1.74	30		
Dibenzo(a,h)anthracene	1242	13	1315	0	94.4	40-125	1250	0.679	30		
Fluoranthene	1256	13	1315	0	95.5	55-115	1222	2.73	30		
Fluorene	1136	13	1315	0	86.4	50-110	1121	1.39	30		
Indeno(1,2,3-cd)pyrene	1334	13	1315	0	101	40-120	1335	0.135	30		
Naphthalene	878.1	13	1315	0	66.8	40-105	862	1.85	30		
Pyrene	1140	13	1315	0	86.7	45-125	1108	2.78	30		
Surr: 2-Fluorobiphenyl	2588	0	3286	0	78.8	12-100	2544	1.72	40		
Surr: 4-Terphenyl-d14	2959	0	3286	0	90	25-137	2890	2.36	40		
Surr: Nitrobenzene-d5	2294	0	3286	0	69.8	37-107	2217	3.41	40		

The following samples were analyzed in this batch:

1403949-01A	1403949-03A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates
 Work Order: 1403949
 Project: Chevron FEE 99X 3.19.14

QC BATCH REPORT

Batch ID: 56915 Instrument ID SVMS8 Method: SW8270

MBLK		Sample ID: SBLKS1-56915-56915				Units: µg/Kg		Analysis Date: 3/26/2014 05:34 PM		
Client ID:		Run ID: SVMS8_140326A		SeqNo: 2687752		Prep Date: 3/26/2014		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	1190	0	1667	0	71.4	12-100	0			
Surr: 4-Terphenyl-d14	1726	0	1667	0	104	25-137	0			
Surr: Nitrobenzene-d5	1246	0	1667	0	74.8	37-107	0			

LCS		Sample ID: SLCSS1-56915-56915				Units: µg/Kg		Analysis Date: 3/26/2014 05:55 PM		
Client ID:		Run ID: SVMS8_140326A		SeqNo: 2687712		Prep Date: 3/26/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	497.3	6.7	666.7	0	74.6	45-110	0			
Anthracene	600	6.7	666.7	0	90	55-105	0			
Benzo(a)anthracene	602.3	6.7	666.7	0	90.3	50-110	0			
Benzo(a)pyrene	620.7	6.7	666.7	0	93.1	50-110	0			
Benzo(b)fluoranthene	601	6.7	666.7	0	90.1	45-115	0			
Benzo(k)fluoranthene	587	6.7	666.7	0	88	45-115	0			
Chrysene	582.3	6.7	666.7	0	87.3	55-110	0			
Dibenzo(a,h)anthracene	644.3	6.7	666.7	0	96.6	40-125	0			
Fluoranthene	566	6.7	666.7	0	84.9	55-115	0			
Fluorene	519.3	6.7	666.7	0	77.9	50-110	0			
Indeno(1,2,3-cd)pyrene	641.7	6.7	666.7	0	96.2	40-120	0			
Naphthalene	451.7	6.7	666.7	0	67.7	40-105	0			
Pyrene	637	6.7	666.7	0	95.5	45-125	0			
Surr: 2-Fluorobiphenyl	1147	0	1667	0	68.8	12-100	0			
Surr: 4-Terphenyl-d14	1740	0	1667	0	104	25-137	0			
Surr: Nitrobenzene-d5	1248	0	1667	0	74.9	37-107	0			

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

Client: Olsson Associates
 Work Order: 1403949
 Project: Chevron FEE 99X 3.19.14

QC BATCH REPORT

Batch ID: 56915 Instrument ID SVMS8 Method: SW8270

MS				Sample ID: 14031137-04B MS			Units: µg/Kg		Analysis Date: 3/26/2014 06:15 PM		
Client ID:				Run ID: SVMS8_140326A			SeqNo: 2687715		Prep Date: 3/26/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	994.5	13	1285	0	77.4	45-110	0				
Anthracene	1144	13	1285	0	89	55-105	0				
Benzo(a)anthracene	1144	13	1285	0	89	50-110	0				
Benzo(a)pyrene	1153	13	1285	0	89.7	50-110	0				
Benzo(b)fluoranthene	1126	13	1285	0	87.6	45-115	0				
Benzo(k)fluoranthene	1081	13	1285	0	84.1	45-115	0				
Chrysene	1053	13	1285	0	81.9	55-110	0				
Dibenzo(a,h)anthracene	1216	13	1285	0	94.6	40-125	0				
Fluoranthene	1055	13	1285	0	82.1	55-115	0				
Fluorene	1020	13	1285	0	79.4	50-110	0				
Indeno(1,2,3-cd)pyrene	1206	13	1285	0	93.9	40-120	0				
Naphthalene	909.7	13	1285	0	70.8	40-105	0				
Pyrene	1199	13	1285	0	93.3	45-125	0				
Surr: 2-Fluorobiphenyl	2381	0	3212	0	74.1	12-100	0				
Surr: 4-Terphenyl-d14	3264	0	3212	0	102	25-137	0				
Surr: Nitrobenzene-d5	2576	0	3212	0	80.2	37-107	0				

MSD				Sample ID: 14031137-04B MSD			Units: µg/Kg		Analysis Date: 3/26/2014 06:35 PM		
Client ID:				Run ID: SVMS8_140326A			SeqNo: 2687717		Prep Date: 3/26/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	1024	13	1298	0	78.9	45-110	994.5	2.93	30		
Anthracene	1156	13	1298	0	89.1	55-105	1144	1.13	30		
Benzo(a)anthracene	1151	13	1298	0	88.6	50-110	1144	0.62	30		
Benzo(a)pyrene	1169	13	1298	0	90	50-110	1153	1.4	30		
Benzo(b)fluoranthene	1143	13	1298	0	88.1	45-115	1126	1.53	30		
Benzo(k)fluoranthene	1083	13	1298	0	83.4	45-115	1081	0.238	30		
Chrysene	1070	13	1298	0	82.4	55-110	1053	1.56	30		
Dibenzo(a,h)anthracene	1231	13	1298	0	94.8	40-125	1216	1.22	30		
Fluoranthene	1094	13	1298	0	84.3	55-115	1055	3.66	30		
Fluorene	1045	13	1298	0	80.5	50-110	1020	2.39	30		
Indeno(1,2,3-cd)pyrene	1275	13	1298	0	98.2	40-120	1206	5.54	30		
Naphthalene	937.8	13	1298	0	72.2	40-105	909.7	3.04	30		
Pyrene	1190	13	1298	0	91.7	45-125	1199	0.77	30		
Surr: 2-Fluorobiphenyl	2398	0	3245	0	73.9	12-100	2381	0.716	40		
Surr: 4-Terphenyl-d14	3240	0	3245	0	99.8	25-137	3264	0.753	40		
Surr: Nitrobenzene-d5	2590	0	3245	0	79.8	37-107	2576	0.539	40		

The following samples were analyzed in this batch:

1403949-05A

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

Client: Olsson Associates
 Work Order: 1403949
 Project: Chevron FEE 99X 3.19.14

QC BATCH REPORT

Batch ID: **56765** Instrument ID **VMS6** Method: **SW8260B**

MBLK		Sample ID: MBLK-56765-56765				Units: µg/Kg		Analysis Date: 3/21/2014 03:01 PM		
Client ID:		Run ID: VMS6_140321A				SeqNo: 2681744		Prep Date: 3/21/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	17	30								J
Ethylbenzene	14	30								J
m,p-Xylene	27.5	60								J
o-Xylene	ND	30								
Toluene	15	30								J
Xylenes, Total	ND	90								
<i>Surr: 1,2-Dichloroethane-d4</i>	972	0	1000	0	97.2	70-130	0			
<i>Surr: 4-Bromofluorobenzene</i>	988.5	0	1000	0	98.8	70-130	0			
<i>Surr: Dibromofluoromethane</i>	949.5	0	1000	0	95	70-130	0			
<i>Surr: Toluene-d8</i>	970	0	1000	0	97	70-130	0			

LCS		Sample ID: LCS-56765-56765				Units: µg/Kg		Analysis Date: 3/21/2014 01:14 PM		
Client ID:		Run ID: VMS6_140321A				SeqNo: 2681743		Prep Date: 3/21/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1018	30	1000	0	102	75-125	0			
Ethylbenzene	962.5	30	1000	0	96.2	75-125	0			
m,p-Xylene	1914	60	2000	0	95.7	80-125	0			
o-Xylene	964.5	30	1000	0	96.4	75-125	0			
Toluene	963	30	1000	0	96.3	70-125	0			
Xylenes, Total	2878	90	3000	0	95.9	75-125	0			
<i>Surr: 1,2-Dichloroethane-d4</i>	985.5	0	1000	0	98.6	70-130	0			
<i>Surr: 4-Bromofluorobenzene</i>	1012	0	1000	0	101	70-130	0			
<i>Surr: Dibromofluoromethane</i>	988.5	0	1000	0	98.8	70-130	0			
<i>Surr: Toluene-d8</i>	966	0	1000	0	96.6	70-130	0			

MS		Sample ID: 1403953-01A MS				Units: µg/Kg		Analysis Date: 3/27/2014 12:26 PM		
Client ID:		Run ID: VMS9_140326A				SeqNo: 2686776		Prep Date: 3/21/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1011	30	1000	0	101	75-125	0			
Ethylbenzene	1040	30	1000	0	104	75-125	0			
m,p-Xylene	2140	60	2000	0	107	80-125	0			
o-Xylene	1075	30	1000	0	108	75-125	0			
Toluene	1008	30	1000	0	101	70-125	0			
Xylenes, Total	3216	90	3000	0	107	75-125	0			
<i>Surr: 1,2-Dichloroethane-d4</i>	967.5	0	1000	0	96.8	70-130	0			
<i>Surr: 4-Bromofluorobenzene</i>	1038	0	1000	0	104	70-130	0			
<i>Surr: Dibromofluoromethane</i>	971	0	1000	0	97.1	70-130	0			
<i>Surr: Toluene-d8</i>	1026	0	1000	0	103	70-130	0			

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

Client: Olsson Associates
 Work Order: 1403949
 Project: Chevron FEE 99X 3.19.14

QC BATCH REPORT

Batch ID: **56765** Instrument ID **VMS6** Method: **SW8260B**

MSD		Sample ID: 1403953-01A MSD				Units: µg/Kg		Analysis Date: 3/27/2014 12:51 PM		
Client ID:		Run ID: VMS9_140326A			SeqNo: 2686777		Prep Date: 3/21/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	972.5	30	1000	0	97.2	75-125	1011	3.88	30	
Ethylbenzene	1004	30	1000	0	100	75-125	1040	3.42	30	
m,p-Xylene	2064	60	2000	0	103	80-125	2140	3.61	30	
o-Xylene	1026	30	1000	0	103	75-125	1075	4.71	30	
Toluene	962	30	1000	0	96.2	70-125	1008	4.72	30	
Xylenes, Total	3090	90	3000	0	103	75-125	3216	3.98	30	
<i>Surr: 1,2-Dichloroethane-d4</i>	972	0	1000	0	97.2	70-130	967.5	0.464	30	
<i>Surr: 4-Bromofluorobenzene</i>	1018	0	1000	0	102	70-130	1038	1.9	30	
<i>Surr: Dibromofluoromethane</i>	941.5	0	1000	0	94.2	70-130	971	3.08	30	
<i>Surr: Toluene-d8</i>	988	0	1000	0	98.8	70-130	1026	3.77	30	

The following samples were analyzed in this batch: | 1403949-01A |

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

Client: Olsson Associates
 Work Order: 1403949
 Project: Chevron FEE 99X 3.19.14

QC BATCH REPORT

Batch ID: **56823** Instrument ID **VMS5** Method: **SW8260B**

MBLK		Sample ID: MBLK-56823-56823				Units: µg/Kg		Analysis Date: 3/24/2014 01:31 PM		
Client ID:		Run ID: VMS5_140324A			SeqNo: 2682420		Prep Date: 3/24/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	30								
Ethylbenzene	ND	30								
m,p-Xylene	ND	60								
o-Xylene	ND	30								
Toluene	ND	30								
Xylenes, Total	ND	90								
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>1012</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>101</i>	<i>70-130</i>	<i>0</i>			
<i>Surr: 4-Bromofluorobenzene</i>	<i>980.5</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>98</i>	<i>70-130</i>	<i>0</i>			
<i>Surr: Dibromofluoromethane</i>	<i>1003</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>100</i>	<i>70-130</i>	<i>0</i>			
<i>Surr: Toluene-d8</i>	<i>996.5</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>99.6</i>	<i>70-130</i>	<i>0</i>			

LCS		Sample ID: LCS-56823-56823				Units: µg/Kg		Analysis Date: 3/24/2014 12:12 PM		
Client ID:		Run ID: VMS5_140324A			SeqNo: 2682416		Prep Date: 3/24/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	958.5	30	1000	0	95.8	75-125	0			
Ethylbenzene	975	30	1000	0	97.5	75-125	0			
m,p-Xylene	1919	60	2000	0	96	80-125	0			
o-Xylene	979	30	1000	0	97.9	75-125	0			
Toluene	942	30	1000	0	94.2	70-125	0			
Xylenes, Total	2898	90	3000	0	96.6	75-125	0			
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>1001</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>100</i>	<i>70-130</i>	<i>0</i>			
<i>Surr: 4-Bromofluorobenzene</i>	<i>996</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>99.6</i>	<i>70-130</i>	<i>0</i>			
<i>Surr: Dibromofluoromethane</i>	<i>1004</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>100</i>	<i>70-130</i>	<i>0</i>			
<i>Surr: Toluene-d8</i>	<i>982</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>98.2</i>	<i>70-130</i>	<i>0</i>			

MS		Sample ID: 1403976-08A MS				Units: µg/Kg		Analysis Date: 3/25/2014 11:00 AM		
Client ID:		Run ID: VMS6_140324B			SeqNo: 2683860		Prep Date: 3/24/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1238	33	1095	0	113	75-125	0			
Ethylbenzene	1173	33	1095	0	107	75-125	0			
m,p-Xylene	2340	66	2191	0	107	80-125	0			
o-Xylene	1169	33	1095	0	107	75-125	0			
Toluene	1154	33	1095	0	105	70-125	0			
Xylenes, Total	3508	99	3286	0	107	75-125	0			
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>1084</i>	<i>0</i>	<i>1095</i>	<i>0</i>	<i>99</i>	<i>70-130</i>	<i>0</i>			
<i>Surr: 4-Bromofluorobenzene</i>	<i>1152</i>	<i>0</i>	<i>1095</i>	<i>0</i>	<i>105</i>	<i>70-130</i>	<i>0</i>			
<i>Surr: Dibromofluoromethane</i>	<i>1082</i>	<i>0</i>	<i>1095</i>	<i>0</i>	<i>98.8</i>	<i>70-130</i>	<i>0</i>			
<i>Surr: Toluene-d8</i>	<i>1068</i>	<i>0</i>	<i>1095</i>	<i>0</i>	<i>97.6</i>	<i>70-130</i>	<i>0</i>			

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

Client: Olsson Associates
Work Order: 1403949
Project: Chevron FEE 99X 3.19.14

QC BATCH REPORT

Batch ID: **56823** Instrument ID **VMS5** Method: **SW8260B**

MSD		Sample ID: 1403976-08A MSD				Units: µg/Kg		Analysis Date: 3/25/2014 11:26 AM		
Client ID:		Run ID: VMS6_140324B			SeqNo: 2683861		Prep Date: 3/24/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1170	33	1095	0	107	75-125	1238	5.69	30	
Ethylbenzene	1116	33	1095	0	102	75-125	1173	5.03	30	
m,p-Xylene	2215	66	2191	0	101	80-125	2340	5.48	30	
o-Xylene	1100	33	1095	0	100	75-125	1169	6.03	30	
Toluene	1084	33	1095	0	99	70-125	1154	6.31	30	
Xylenes, Total	3315	99	3286	0	101	75-125	3508	5.67	30	
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>1071</i>	<i>0</i>	<i>1095</i>	<i>0</i>	<i>97.8</i>	<i>70-130</i>	<i>1084</i>	<i>1.22</i>	<i>30</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>1145</i>	<i>0</i>	<i>1095</i>	<i>0</i>	<i>105</i>	<i>70-130</i>	<i>1152</i>	<i>0.62</i>	<i>30</i>	
<i>Surr: Dibromofluoromethane</i>	<i>1087</i>	<i>0</i>	<i>1095</i>	<i>0</i>	<i>99.2</i>	<i>70-130</i>	<i>1082</i>	<i>0.505</i>	<i>30</i>	
<i>Surr: Toluene-d8</i>	<i>1041</i>	<i>0</i>	<i>1095</i>	<i>0</i>	<i>95</i>	<i>70-130</i>	<i>1068</i>	<i>2.65</i>	<i>30</i>	

The following samples were analyzed in this batch: | 1403949-03A 1403949-05A |

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

Client: Olsson Associates
Work Order: 1403949
Project: Chevron FEE 99X 3.19.14

QC BATCH REPORT

Batch ID: **56802** Instrument ID **WETCHEM** Method: **USDA H60 Method**

DUP	Sample ID: 1403947-02B DUP		Units: mmhos/cm @25°C		Analysis Date: 3/25/2014 04:00 PM					
Client ID:	Run ID: WETCHEM_140325I		SeqNo: 2684481		Prep Date: 3/25/2014 DF: 10					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	3.43	0.050	0	0	0		3.62	5.39	50	

The following samples were analyzed in this batch:

1403949-01B	1403949-02B	1403949-03B
1403949-05B		

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

Client: Olsson Associates
 Work Order: 1403949
 Project: Chevron FEE 99X 3.19.14

QC BATCH REPORT

Batch ID: **56851** Instrument ID **WETCHEM** Method: **SW9045D**

LCS	Sample ID: LCS-56851-56851		Units: s.u.		Analysis Date: 3/24/2014 03:00 PM					
Client ID:	Run ID: WETCHEM_140324P		SeqNo: 2682822		Prep Date: 3/24/2014		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH 3.98 0 4 0 99.5 90-110 0

DUP	Sample ID: 1403950-03A DUP		Units: s.u.		Analysis Date: 3/24/2014 03:00 PM					
Client ID:	Run ID: WETCHEM_140324P		SeqNo: 2682836		Prep Date: 3/24/2014		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH 8.68 0 0 0 0 0-0 8.66 0.231 20

DUP	Sample ID: 1403947-02A DUP		Units: s.u.		Analysis Date: 3/24/2014 03:00 PM					
Client ID:	Run ID: WETCHEM_140324P		SeqNo: 2682847		Prep Date: 3/24/2014		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 7.62 0.784 20

The following samples were analyzed in this batch:

1403949-01A	1403949-02A	1403949-03A
1403949-05A		

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

Client: Olsson Associates
 Work Order: 1403949
 Project: Chevron FEE 99X 3.19.14

QC BATCH REPORT

Batch ID: **56895** Instrument ID **WETCHEM** Method: **SW7196A**

MBLK	Sample ID: MBLK-56895-56895		Units: mg/Kg		Analysis Date: 3/25/2014 03:00 PM					
Client ID:	Run ID: WETCHEM_140325Q		SeqNo: 2684660		Prep Date: 3/24/2014 DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent ND 0.50

LCS	Sample ID: LCS-56895-56895		Units: mg/Kg		Analysis Date: 3/25/2014 03:00 PM					
Client ID:	Run ID: WETCHEM_140325Q		SeqNo: 2684659		Prep Date: 3/24/2014 DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.76 0.50 2 0 88 80-120 0

MS	Sample ID: 1403950-07A MS		Units: mg/Kg		Analysis Date: 3/25/2014 03:00 PM					
Client ID:	Run ID: WETCHEM_140325Q		SeqNo: 2684655		Prep Date: 3/24/2014 DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent ND 0.50 1.992 0 0 75-125 0 S

MS	Sample ID: 1403950-07A MSI		Units: mg/Kg		Analysis Date: 3/25/2014 03:00 PM					
Client ID:	Run ID: WETCHEM_140325Q		SeqNo: 2684657		Prep Date: 3/24/2014 DF: 100					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 835.3 49 1186 0 70.4 75-125 0 S

MSD	Sample ID: 1403950-07A MSD		Units: mg/Kg		Analysis Date: 3/25/2014 03:00 PM					
Client ID:	Run ID: WETCHEM_140325Q		SeqNo: 2684656		Prep Date: 3/24/2014 DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent ND 0.50 2 0 0 75-125 0.1195 0 20 S

The following samples were analyzed in this batch:

1403949-01A	1403949-02A	1403949-03A
1403949-05A		

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

Client: Olsson Associates
 Work Order: 1403949
 Project: Chevron FEE 99X 3.19.14

QC BATCH REPORT

Batch ID: **R137684** Instrument ID **MOIST** Method: **A2540 G**

MBLK		Sample ID: WBLKS-R137684				Units: % of sample			Analysis Date: 3/24/2014 09:30 AM		
Client ID:		Run ID: MOIST_140324A				SeqNo: 2683747		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-R137684				Units: % of sample			Analysis Date: 3/24/2014 09:30 AM		
Client ID:		Run ID: MOIST_140324A				SeqNo: 2683746		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: 1403934-01A DUP				Units: % of sample			Analysis Date: 3/24/2014 09:30 AM		
Client ID:		Run ID: MOIST_140324A				SeqNo: 2683726		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Moisture 15.09 0.050 0 0 0 0-0 14.09 6.85 20

DUP		Sample ID: 1403953-11A DUP				Units: % of sample			Analysis Date: 3/24/2014 09:30 AM		
Client ID:		Run ID: MOIST_140324A				SeqNo: 2683736		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Moisture 10.35 0.050 0 0 0 0-0 10.19 1.56 20

The following samples were analyzed in this batch:

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

Client: Olsson Associates
 Work Order: 1403949
 Project: Chevron FEE 99X 3.19.14

QC BATCH REPORT

Batch ID: **R137685** Instrument ID **MOIST** Method: **A2540 G**

MBLK		Sample ID: WBLKS-R137685				Units: % of sample			Analysis Date: 3/24/2014 11:12 AM		
Client ID:		Run ID: MOIST_140324B				SeqNo: 2683778		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Moisture	0.03	0.050								J	

LCS		Sample ID: LCS-R137685				Units: % of sample			Analysis Date: 3/24/2014 11:12 AM		
Client ID:		Run ID: MOIST_140324B				SeqNo: 2683777		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: 1403976-09B DUP				Units: % of sample			Analysis Date: 3/24/2014 11:12 AM		
Client ID:		Run ID: MOIST_140324B				SeqNo: 2683770		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Moisture	5.29	0.050	0		0	0	0-0	5.05	4.64	20	

DUP		Sample ID: 1403976-10B DUP				Units: % of sample			Analysis Date: 3/24/2014 11:12 AM		
Client ID:		Run ID: MOIST_140324B				SeqNo: 2683772		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Moisture	4.46	0.050	0		0	0	0-0	4.6	3.09	20	

The following samples were analyzed in this batch:

1403949-01A	1403949-02A	1403949-03A
1403949-05A		

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



Environmental

Chain of Custody Form

Page 1 of 1

COC ID: 123456

- Location selection checkboxes: Cincinnati, OH; Everett, WA; Fort Collins, CO; Holland, MI; Houston, TX; Middletown, PA; Salt Lake City, UT; Spring City, PA; York, PA.

Main form containing Customer Information, Project Information, Parameter/Method Request for Analysis, Sample Description table, and Signatures/Notes sections.

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: **21-Mar-14 09:00**

Work Order: **1403949**

Received by: **JR**

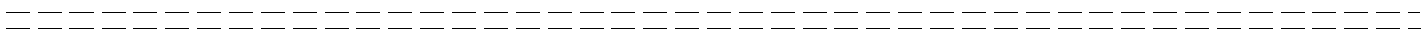
Checklist completed by Joseph Ribar 21-Mar-14
eSignature Date

Reviewed by: Ann Preston 24-Mar-14
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 checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input 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>4.6 c</u>		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	<u>3/21/2014 12:02:13 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:			

Login Notes:



Client Contacted: _____ Date Contacted: _____ Person Contacted: _____

Contacted By: _____ Regarding: _____

Comments:

CorrectiveAction:



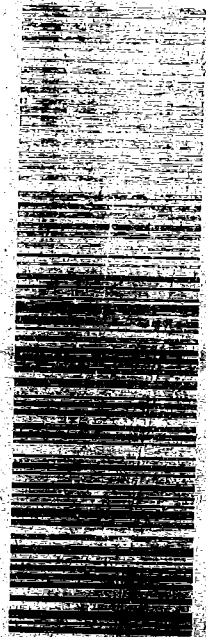
ALS Environmental

10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel: +1 281 530 5667
Fax: +1 281 530 5887

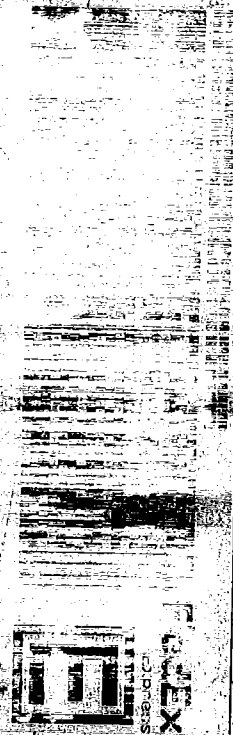
CUSTODY SEAL

Date: 3/20/14 Time: 16:30
Name: V. B. 12
Company: Olsen & Associates

Part # 156140-434 NRIT 06-01



TRK
020
MAY 10 2014
10:31:24
CPR



SHIP ORDER
MAY 10 2014
10:31:24
CPR





17-Nov-2016

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

Re: **Chevron FEE 99X**

Work Order: **1611391**

Dear Tim,

ALS Environmental received 2 samples on 04-Nov-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 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 13.

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 Ave Holland, Michigan 49424 | PHONE (616) 399-6070 | FAX (616) 399-6185

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Environmental 

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: Olsson Associates
Project: Chevron FEE 99X
Work Order: 1611391

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>
1611391-01	FEE99X-SS1	Soil		11/2/2016 14:20	11/4/2016 09:30	<input type="checkbox"/>
1611391-02	FEE99X-SS3	Soil		11/2/2016 14:30	11/4/2016 09:30	<input type="checkbox"/>

Client: Olsson Associates
Project: Chevron FEE 99X
WorkOrder: 1611391

**QUALIFIERS,
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
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
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: 17-Nov-16

Client: Olsson Associates
Project: Chevron FEE 99X
Sample ID: FEE99X-SS1
Collection Date: 11/2/2016 02:20 PM

Work Order: 1611391
Lab ID: 1611391-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M		Prep: SW3546 / 11/11/16	Analyst: IT
DRO (C10-C28)	14		6.2	mg/Kg-dry	1	11/11/2016 09:34 PM
Surr: 4-Terphenyl-d14	58.6		39-133	%REC	1	11/11/2016 09:34 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015D		Prep: SW5035 / 11/10/16	Analyst: IT
GRO (C6-C10)	ND		3.8	mg/Kg-dry	1	11/10/2016 09:30 PM
Surr: Toluene-d8	96.3		50-150	%REC	1	11/10/2016 09:30 PM
SOLUBLE CATIONS FOR SAR			SW846 6010C		Prep: USDA Method 20B / 11/9/16	Analyst: RH
Calcium	350		5.0	mg/L	10	11/10/2016 01:20 AM
Magnesium	40		2.0	mg/L	10	11/10/2016 01:20 AM
Sodium	980		2.0	mg/L	10	11/10/2016 01:20 AM
SODIUM ADSORPTION RATIO			USDA H60 METHO		Prep: USDA Method 20B / 11/9/16	Analyst: RH
Sodium Adsorption Ratio	13		0.010	none	1	11/9/2016
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO		Prep: USDA Method 20B / 11/9/16	Analyst: JB
Electrical Conductivity @ Saturation	9.4		0.25	mmhos/cm @2	50	11/9/2016 04:00 PM
MOISTURE			SW3550C			Analyst: EDL
Moisture	21		0.050	% of sample	1	11/10/2016 01:37 PM

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

Client: Olsson Associates
 Project: Chevron FEE 99X
 Sample ID: FEE99X-SS3
 Collection Date: 11/2/2016 02:30 PM

Work Order: 1611391
 Lab ID: 1611391-02
 Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			SW8015M		Prep: SW3546 / 11/11/16	Analyst: IT
DRO (C10-C28)	12		6.4	mg/Kg-dry	1	11/11/2016 11:02 PM
<i>Surr: 4-Terphenyl-d14</i>	<i>54.3</i>		<i>39-133</i>	<i>%REC</i>	1	11/11/2016 11:02 PM
GASOLINE RANGE ORGANICS BY GC-FID			SW8015D		Prep: SW5035 / 11/10/16	Analyst: IT
GRO (C6-C10)	ND		3.9	mg/Kg-dry	1	11/10/2016 09:55 PM
<i>Surr: Toluene-d8</i>	<i>103</i>		<i>50-150</i>	<i>%REC</i>	1	11/10/2016 09:55 PM
SEMI-VOLATILE ORGANIC COMPOUNDS			SW846 8270D		Prep: SW3546 / 11/11/16	Analyst: RS
Benzo(a)anthracene	ND		0.0085	mg/Kg-dry	1	11/12/2016 01:23 AM
<i>Surr: 2-Fluorobiphenyl</i>	<i>87.9</i>		<i>12-100</i>	<i>%REC</i>	1	11/12/2016 01:23 AM
<i>Surr: 4-Terphenyl-d14</i>	<i>99.4</i>		<i>25-137</i>	<i>%REC</i>	1	11/12/2016 01:23 AM
<i>Surr: Nitrobenzene-d5</i>	<i>71.0</i>		<i>37-107</i>	<i>%REC</i>	1	11/12/2016 01:23 AM
MOISTURE			SW3550C			Analyst: EDL
Moisture	22		0.050	% of sample	1	11/10/2016 01:37 PM

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

Client: Olsson Associates
Work Order: 1611391
Project: Chevron FEE 99X

QC BATCH REPORT

Batch ID: **94410** Instrument ID **GC8** Method: **SW8015M**

MBLK		Sample ID: DBLKS1-94410-94410				Units: mg/Kg		Analysis Date: 11/11/2016 05:39 PM			
Client ID:		Run ID: GC8_161111B		SeqNo: 4150501		Prep Date: 11/11/2016		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>	2.139	0	3.33	0	64.2	39-133	0				

LCS		Sample ID: DLCSS1-94410-94410				Units: mg/Kg		Analysis Date: 11/11/2016 06:08 PM			
Client ID:		Run ID: GC8_161111B		SeqNo: 4150502		Prep Date: 11/11/2016		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
DRO (C10-C28)	253.5	5.0	333	0	76.1	61-109	0				
<i>Surr: 4-Terphenyl-d14</i>	1.88	0	3.33	0	56.5	39-133	0				

MS		Sample ID: 1611542-09B MS				Units: mg/Kg		Analysis Date: 11/11/2016 06:38 PM			
Client ID:		Run ID: GC8_161111B		SeqNo: 4150503		Prep Date: 11/11/2016		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
DRO (C10-C28)	250.2	4.8	318.7	17.34	73.1	48-110	0				
<i>Surr: 4-Terphenyl-d14</i>	1.841	0	3.187	0	57.8	39-133	0				

MSD		Sample ID: 1611542-09B MSD				Units: mg/Kg		Analysis Date: 11/11/2016 07:07 PM			
Client ID:		Run ID: GC8_161111B		SeqNo: 4150504		Prep Date: 11/11/2016		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
DRO (C10-C28)	278.4	5.0	332.1	17.34	78.6	48-110	250.2	10.6	30		
<i>Surr: 4-Terphenyl-d14</i>	1.874	0	3.321	0	56.4	39-133	1.841	1.77	30		

The following samples were analyzed in this batch: 1611391-01A 1611391-02A

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

Client: Olsson Associates
 Work Order: 1611391
 Project: Chevron FEE 99X

QC BATCH REPORT

Batch ID: **94344** Instrument ID **GC9** Method: **SW8015D**

MBLK		Sample ID: MBLK-94344-94344				Units: µg/Kg-dry		Analysis Date: 11/10/2016 12:48 PM		
Client ID:		Run ID: GC9_161110A		SeqNo: 4147106		Prep Date: 11/10/2016		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								
<i>Surr: Toluene-d8</i>	4330	0	5000	0	86.6	50-150	0			

LCS		Sample ID: LCS-94344-94344				Units: µg/Kg-dry		Analysis Date: 11/10/2016 12:23 PM		
Client ID:		Run ID: GC9_161110A		SeqNo: 4147105		Prep Date: 11/10/2016		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	450100	2,500	500000	0	90	70-130	0			
<i>Surr: Toluene-d8</i>	5025	0	5000	0	100	50-150	0			

MS		Sample ID: 1611449-04A MS				Units: µg/Kg-dry		Analysis Date: 11/10/2016 03:42 PM		
Client ID:		Run ID: GC9_161110A		SeqNo: 4147113		Prep Date: 11/10/2016		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	799800	3,900	782100	0	102	70-130	0			
<i>Surr: Toluene-d8</i>	8648	0	7821	0	111	50-150	0			

MSD		Sample ID: 1611449-04A MSD				Units: µg/Kg-dry		Analysis Date: 11/10/2016 04:07 PM		
Client ID:		Run ID: GC9_161110A		SeqNo: 4147114		Prep Date: 11/10/2016		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	830000	3,900	782100	0	106	70-130	799800	3.7	30	
<i>Surr: Toluene-d8</i>	8728	0	7821	0	112	50-150	8648	0.927	30	

The following samples were analyzed in this batch: 1611391-01A 1611391-02A

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

Client: Olsson Associates
Work Order: 1611391
Project: Chevron FEE 99X

QC BATCH REPORT

Batch ID: **94292** Instrument ID **ICP2** Method: **SW846 6010C**

DUP		Sample ID: 1611387-02CDUP				Units: mg/L		Analysis Date: 11/10/2016 12:41 A		
Client ID:		Run ID: ICP2_161109A			SeqNo: 4144324		Prep Date: 11/9/2016		DF: 10	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	250.3	5.0	0	0	0	0-0	0		0	
Magnesium	53.03	2.0	0	0	0	0-0	0		0	
Sodium	1312	2.0	0	0	0	0-0	0		0	

The following samples were analyzed in this batch:

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

Client: Olsson Associates
 Work Order: 1611391
 Project: Chevron FEE 99X

QC BATCH REPORT

Batch ID: **94409** Instrument ID **SVMS5** Method: **SW846 8270D**

MBLK		Sample ID: SBLKS1-94409-94409				Units: µg/Kg		Analysis Date: 11/13/2016 12:45 PM		
Client ID:		Run ID: SVMS5_161113A		SeqNo: 4150862		Prep Date: 11/11/2016		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzo(a)anthracene	ND	6.7								
<i>Surr: 2-Fluorobiphenyl</i>	2733	0	3333	0	82	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	2845	0	3333	0	85.3	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	2095	0	3333	0	62.9	37-107	0			

LCS		Sample ID: SLCSS1-94409-94409				Units: µg/Kg		Analysis Date: 11/13/2016 01:08 PM		
Client ID:		Run ID: SVMS5_161113A		SeqNo: 4150864		Prep Date: 11/11/2016		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzo(a)anthracene	1148	6.7	1333	0	86.1	50-110	0			
<i>Surr: 2-Fluorobiphenyl</i>	2799	0	3333	0	84	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	2879	0	3333	0	86.4	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	2109	0	3333	0	63.3	37-107	0			

MS		Sample ID: 1611393-04A MS				Units: µg/Kg		Analysis Date: 11/13/2016 02:05 PM		
Client ID:		Run ID: SVMS5_161113A		SeqNo: 4150867		Prep Date: 11/11/2016		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzo(a)anthracene	1063	6.6	1320	0	80.6	50-110	0			
<i>Surr: 2-Fluorobiphenyl</i>	2650	0	3300	0	80.3	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	2597	0	3300	0	78.7	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	2089	0	3300	0	63.3	37-107	0			

MSD		Sample ID: 1611393-04A MSD				Units: µg/Kg		Analysis Date: 11/13/2016 02:28 PM		
Client ID:		Run ID: SVMS5_161113A		SeqNo: 4150868		Prep Date: 11/11/2016		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzo(a)anthracene	1063	6.7	1331	0	79.9	50-110	1063	0.0377	30	
<i>Surr: 2-Fluorobiphenyl</i>	2557	0	3327	0	76.8	12-100	2650	3.57	40	
<i>Surr: 4-Terphenyl-d14</i>	2970	0	3327	0	89.2	25-137	2597	13.4	40	
<i>Surr: Nitrobenzene-d5</i>	2091	0	3327	0	62.8	37-107	2089	0.0739	40	

The following samples were analyzed in this batch: 1611391-02A

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

Client: Olsson Associates
Work Order: 1611391
Project: Chevron FEE 99X

QC BATCH REPORT

Batch ID: **94292** Instrument ID **WETCHEM** Method: **USDA H60 Metho**

DUP	Sample ID: 1611387-02C DUP	Units: mmhos/cm @25°	Analysis Date: 11/9/2016 04:00 PM							
Client ID:	Run ID: WETCHEM_1611090	SeqNo: 4143384	Prep Date: 11/9/2016	DF: 50						
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	12.3	0.25	0	0	0		11.45	7.16	50	

The following samples were analyzed in this batch:

Client: Olsson Associates
 Work Order: 1611391
 Project: Chevron FEE 99X

QC BATCH REPORT

Batch ID: **R200352** Instrument ID **MOIST** Method: **SW3550C**

MBLK		Sample ID: WBLKS-R200352				Units: % of sample			Analysis Date: 11/10/2016 01:37 PM		
Client ID:		Run ID: MOIST_161110A				SeqNo: 4147178		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-R200352				Units: % of sample			Analysis Date: 11/10/2016 01:37 PM		
Client ID:		Run ID: MOIST_161110A				SeqNo: 4147177		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: 1611391-01A DUP				Units: % of sample			Analysis Date: 11/10/2016 01:37 PM		
Client ID: FEE99X-SS1		Run ID: MOIST_161110A				SeqNo: 4147147		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Moisture 21.02 0.050 0 0 0 20.8 1.05 20

DUP		Sample ID: 1611393-03A DUP				Units: % of sample			Analysis Date: 11/10/2016 01:37 PM		
Client ID:		Run ID: MOIST_161110A				SeqNo: 4147161		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Moisture 25.65 0.050 0 0 0 27.54 7.11 20

The following samples were analyzed in this batch: 1611391-01A 1611391-02A

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

Sample Receipt Checklist

Client Name: **OLSSON**

Date/Time Received: **04-Nov-16 09:30**

Work Order: **1611391**

Received by: **KRW**

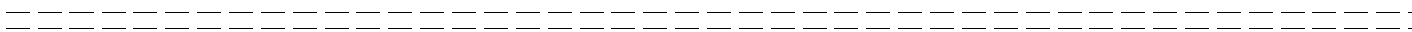
Checklist completed by Keith Wierenga 04-Nov-16
eSignature Date

Reviewed by: Chad Whelton 06-Nov-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>3.4/3.4 C</u>		<u>SR2</u>
Cooler(s)/Kit(s):	<u> </u>		
Date/Time sample(s) sent to storage:	<u>11/4/2016 5:28:37 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:



18-Oct-2017

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

Re: **FEE 99X Resample**

Work Order: **1710598**

Dear Tim,

ALS Environmental received 1 sample on 10-Oct-2017 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 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 7.

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", is written over a white background.

Electronically approved by: Chad Whelton

Chad Whelton
Project Manager

Certificate No: MN 998501

Report of Laboratory Analysis

ADDRESS 3352 128th Ave Holland, Michigan 49424 | 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: FEE 99X Resample
Work Order: 1710598

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>
1710598-01	FEE99X-SS1	Soil		10/6/2017 13:30	10/10/2017 09:30	<input type="checkbox"/>

Client: Olsson Associates
Project: FEE 99X Resample
WorkOrder: 1710598

**QUALIFIERS,
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
**	Estimated Value
a	Analyte is non-accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
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>
mg/L	Milligrams per Liter
mmhos/cm @25°C	Millimhos-Centimeter at 25 Degrees Celcius
none	

ALS Group, USA

Date: 18-Oct-17

Client: Olsson Associates
Project: FEE 99X Resample
Sample ID: FEE99X-SS1
Collection Date: 10/6/2017 01:30 PM

Work Order: 1710598
Lab ID: 1710598-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
SODIUM ADSORPTION RATIO							
			Method: USDA H60 METHOD 2		Prep: USDA Method 20B / 10/13/17		Analyst: RH
Sodium Adsorption Ratio	2.9		0.010	0.010	none	1	10/16/2017
SOLUBLE CATIONS FOR SAR							
			Method: SW6020A		Prep: USDA Method 20B / 10/13/17		Analyst: JF
Calcium	120		0.86	5.0	mg/L	10	10/17/2017 19:00
Magnesium	19		0.068	2.0	mg/L	10	10/17/2017 19:00
Sodium	130		0.34	2.0	mg/L	10	10/17/2017 19:00
ELECTRICAL CONDUCTIVITY (SAR)							
			Method: USDA H60 METHOD 2		Prep: USDA Method 20B / 10/13/17		Analyst: JB
Electrical Conductivity @ Saturation	1.4		0.028	0.25	mmhos/cm @25°	50	10/16/2017 12:30

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

Client: Olsson Associates
Work Order: 1710598
Project: FEE 99X Resample

QC BATCH REPORT

Batch ID: **108993** Instrument ID **SAR** Method: **USDA H60 Metho**

DUP		Sample ID: 1710598-01ADUP				Units: none		Analysis Date: 10/16/2017		
Client ID: FEE99X-SS1		Run ID: SAR_171016C			SeqNo: 4707940		Prep Date: 10/13/2017		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	3.271	0.010	0	0	0		2.919	11.4	50	

The following samples were analyzed in this batch:

Batch ID: **108993** Instrument ID **ICPMS3** Method: **SW6020A**

DUP		Sample ID: 1710598-01ADUP				Units: mg/L		Analysis Date: 10/17/2017 07:01 PM		
Client ID: FEE99X-SS1		Run ID: ICPMS3_171017A			SeqNo: 4706738		Prep Date: 10/13/2017		DF: 10	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	123.8	5.0	0	0	0	0-0	123.9	0.034		
Magnesium	18.46	2.0	0	0	0	0-0	19.12	3.52		
Sodium	147.5	2.0	0	0	0	0-0	132.1	11		

The following samples were analyzed in this batch:

Batch ID: **108993** Instrument ID **WETCHEM** Method: **USDA H60 Metho**

DUP		Sample ID: 1710598-01A DUP				Units: mmhos/cm @25°		Analysis Date: 10/16/2017 12:30 PM		
Client ID: FEE99X-SS1		Run ID: WETCHEM_171016F			SeqNo: 4702093		Prep Date: 10/13/2017		DF: 50	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	1.39	0.25	0	0	0		1.39	0	50	

The following samples were analyzed in this batch:

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 5336

Holland, MI +1 616 399 6070

Salt Lake City, UT +1 801 266 7700

Everett, WA +1 425 356 2600

Houston, TX +1 281 530 5656

Spring City, PA +1 610 948 4903

Fort Collins, CO +1 970 490 1511

Middletown, PA +1 717 944 5541

York, PA +1 717 505 5280

ALS Project Manager:		Work Order #: 1710598	
Customer Information		Project Information	
Purchase Order		Project Name	FEE 99X Resample
Work Order		Project Number	013.3287.400.400004
Company Name	Oleson Associates	Bill To Company	Oleson Associates
Send Report To	Tim Dobransky	Invoice Attn.	Tim Dobransky
Address	760 Horizon Drive, Ste. 102	Address	760 Horizon Drive, Ste. 102
City/State/Zip	Grand Junction, CO 81506	City/State/Zip	Grand Junction, CO 81506
Phone	970.263.7800	Phone	970.263.7800
Fax	970.263.7456	Fax	970.263.7456
e-Mail Address	tdobransky@oaconsulting.com	e-Mail Address	
		Parameter/Method Request for Analysis	
		A	TPH (GRO & DRO)
		B	BTEX
		C	PAH (See Attached List) CO Table 910
		D	Electrical Conductivity
		E	Sodium Adsorption Ratio
		F	pH
		G	Metals (See Attached List) CO Table 910
		H	Arsenic Only
		I	
		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	FEE99X-SS1	10/06/17	1330	Soil	8	1				X	X						
2																	
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 checked="" type="checkbox"/> 5 Wk Days <input type="checkbox"/> 2 Wk Days <input type="checkbox"/> 24 Hour				Results Due Date:	
Relinquished by: T.D.	Date: 10-9-17	Time: 11:30	Received by: W.M.	Notes: Chevron Pricing Applies - Per Bruce Schlatter					
Relinquished by: [Signature]	Date: 10-9-17	Time: 1830	Received by (Laboratory): [Signature]	Cooler Temp.:	QC Package: (Check Box Below)				
Logged by (Laboratory): DFS	Date: 10/10/17	Time: 1100	Checked by (Laboratory): [Signature]	50.2 3.6c	<input checked="" type="checkbox"/>	Level II: Standard QC			
Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4 degrees C 9-5035				<input type="checkbox"/>				Level III: Std QC + Raw Data	
				<input type="checkbox"/>				Level IV: SW846 CLP-Like	
				<input type="checkbox"/>				Other:	

Sample Receipt Checklist

Client Name: **OLSSON**

Date/Time Received: **10-Oct-17 09:30**

Work Order: **1710598**

Received by: **DS**

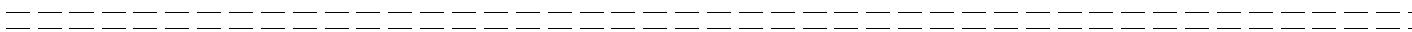
Checklist completed by Diane Shaw 10-Oct-17
eSignature Date

Reviewed by: Chad Whilton 11-Oct-17
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>10/10/2017 11:06:22 AM</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: