

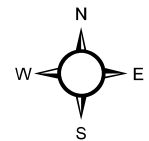


Legend

- Spill Origin
- Soil Sample Location
- Spill Path

0 50 100 200 Feet

1 inch = 94 feet



PROJECT NO:	017-031
DRAWN BY:	TPD
DATE:	08/09/18

GRAY B 5
SPILL RESPONSE
CHEVRON USA, INC
RIO BLANCO COUNTY, COLORADO
SWNW S18 T2N R102W



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

FIGURE

1

Table 1
Gray B5
Soil Data Summary

SAMPLE SUMMARY	
Location Description	Chevron Gray B5
Sample Type	Soil

LABORATORY DATA SUMMARY										
Sample ID	GB5-SS1	GB5-SS1	GB5-SS2	GB5-SS2	GB5-SS2	GB5-SS3	GB5-BG1	GB5-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	9/11/2014	10/19/2017	9/11/2014	10/19/2017	7/20/2018	9/11/2014	9/11/2014	9/11/2014		
Analytical Parameters										
TPH										
TPH Gasoline Range Organics	<4.7	NT	36	NT	NT	<2.8	NT	NT	500	mg/kg
TPH Diesel Range Organics	<2.9	NT	<2.9	NT	NT	<4.6	NT	NT		
BTEX										
Benzene	<0.034	NT	<0.035	NT	NT	<0.033	NT	NT	0.17	mg/kg
Toluene	<0.034	NT	<0.035	NT	NT	<0.033	NT	NT	85	mg/kg
Ethylbenzene	<0.034	NT	<0.035	NT	NT	<0.033	NT	NT	100	mg/kg
Total Xylene	<0.100	NT	<0.11	NT	NT	<0.100	NT	NT	175	mg/kg
Metals										
Arsenic	6.6	NT	7.1	NT	NT	7.4	6.9	8.4	0.39	mg/kg
Barium	97	NT	150	NT	NT	150	120	NT	15,000	mg/kg
Cadmium	<0.72	NT	<0.77	NT	NT	<0.65	<0.60	NT	70	mg/kg
Chromium	11	NT	14	NT	NT	12	15	NT	NA	mg/kg
Copper	12	NT	14	NT	NT	13	12	NT	3,100	mg/kg
Lead	14	NT	15	NT	NT	16	14	NT	400	mg/kg
Mercury	0.075	NT	0.026	NT	NT	0.017	<0.016	NT	23	mg/kg
Nickel	18	NT	19	NT	NT	19	18	NT	1,600	mg/kg
Selenium	2.8	NT	2.4	NT	NT	2.500	3.2	NT	390	mg/kg
Silver	<1.8	NT	<1.9	NT	NT	<1.6	<1.5	NT	390	mg/kg
Zinc	70	NT	71	NT	NT	73	69	NT	23,000	mg/kg
SAR Metals Analysis										
Calcium	670	200	660	290	NT	660	56	NT	NA	mg/L
Magnesium	88	39	84	76	NT	78	20	NT	NA	mg/L
Sodium	7100	49	7000	720	NT	180	430	NT	NA	mg/L
Sodium Adsorption Ratio	69.0	0.8	68.0	9.7	NT	1.70	13	NT	<12	ratio
Polynuclear Aromatic Hydrocarbons										
Acenaphthene	<0.0075	NT	<0.0078	NT	NT	<0.0074	NT	NT	1,000	mg/kg
Anthracene	<0.0075	NT	<0.0078	NT	NT	<0.0074	NT	NT	1,000	mg/kg
Benzo(a)anthracene	<0.0075	NT	<0.0078	NT	NT	<0.0074	NT	NT	0.22	mg/kg
Benzo(a)pyrene	<0.0075	NT	<0.0078	NT	NT	<0.0074	NT	NT	0.022	mg/kg
Benzo(b)fluoranthene	<0.0075	NT	<0.0078	NT	NT	<0.0074	NT	NT	0.22	mg/kg
Benzo(k)fluoranthene	<0.0075	NT	<0.0078	NT	NT	<0.0074	NT	NT	2.2	mg/kg
Chrysene	<0.0075	NT	<0.0078	NT	NT	<0.0074	NT	NT	22	mg/kg
Dibenzo(a,h)anthracene	<0.0075	NT	<0.0078	NT	NT	<0.0074	NT	NT	0.022	mg/kg
Fluoranthene	<0.0075	NT	<0.0078	NT	NT	<0.0074	NT	NT	1,000	mg/kg
Fluorene	<0.0075	NT	<0.0078	NT	NT	<0.0074	NT	NT	1,000	mg/kg
Indeno(1,2,3-cd)pyrene	<0.0075	NT	<0.0078	NT	NT	<0.0074	NT	NT	0.22	mg/kg
Napthalene	<0.0075	NT	<0.0078	NT	NT	<0.0074	NT	NT	23	mg/kg
Pyrene	<0.0075	NT	19	NT	NT	<0.0074	NT	NT	1,000	mg/kg
General Chemistry										
Chromium, Hexavalent	<0.57	NT	<0.59	NT	NT	<0.55	<0.55	NT	23	mg/kg
Chromium, Trivalent	11	NT	13	NT	NT	12	15	NT	120,000	mg/kg
Specific Conductivity	61	1.6	40	6.8	1.2	5	2.5	NT	<4 or 2 x the background	mmhos/cm
pH	7.8	NT	8.0	NT	NT	7.8	8.9	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



23-Sep-2014

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

Re: **Chevron Gray B5 Spill 9.11.14**

Work Order: **1409667**

Dear Tim,

ALS Environmental received 5 samples on 13-Sep-2014 10:45 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 29.

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

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: Chevron Gray B5 Spill 9.11.14
Work Order: 1409667

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>
1409667-01	GB5-SS1	Soil		9/11/2014 13:40	9/13/2014 10:45	<input type="checkbox"/>
1409667-02	GB5-SS2	Soil		9/11/2014 13:50	9/13/2014 10:45	<input type="checkbox"/>
1409667-03	GB5-BG1	Soil		9/11/2014 14:00	9/13/2014 10:45	<input type="checkbox"/>
1409667-04	GB5-SS3	Soil		9/11/2014 14:10	9/13/2014 10:45	<input type="checkbox"/>
1409667-05	GB5-BG2	Soil		9/11/2014 14:15	9/13/2014 10:45	<input type="checkbox"/>

Client: Olsson Associates
Project: Chevron Gray B5 Spill 9.11.14
Work Order: 1409667

Case Narrative

Batch 62881 samples 1409667-01 through 1409667-04 reporting limits for Metals were elevated due to dilution for high concentrations of non-target analytes. The MS/MSD data for Metals is not related to this project's samples. No data requires qualification.

Batch 62900 MS/MSD data for PAHs 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: 23-Sep-14

Client: Olsson Associates
Project: Chevron Gray B5 Spill 9.11.14
Sample ID: GB5-SS1
Collection Date: 9/11/2014 01:40 PM

Work Order: 1409667
Lab ID: 1409667-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
			SW8015M		Prep: SW3541 / 9/18/14	Analyst: IT
DRO (C10-C28)	ND		4.7	mg/Kg-dry	1	9/19/2014 01:13 AM
Surr: 4-Terphenyl-d14	75.2		39-133	%REC	1	9/19/2014 01:13 AM
GASOLINE RANGE ORGANICS BY GC-FID						
			SW8015		Prep: SW5035 / 9/15/14	Analyst: IT
GRO (C6-C10)	ND		2.9	mg/Kg-dry	1	9/17/2014 03:02 AM
Surr: Toluene-d8	112		50-150	%REC	1	9/17/2014 03:02 AM
MERCURY BY CVAA						
			SW7471		Prep: SW7471 / 9/18/14	Analyst: LR
Mercury	0.075		0.016	mg/Kg-dry	1	9/18/2014 05:49 PM
SOLUBLE CATIONS FOR SAR						
			SW846 6010C		Prep: USDA Method 20B / 9/17/14	Analyst: JEC
Calcium	670		50	mg/L	100	9/18/2014 12:26 PM
Magnesium	88		20	mg/L	100	9/18/2014 12:26 PM
Sodium	7,100		20	mg/L	100	9/18/2014 12:26 PM
METALS BY ICP-MS						
			SW6020A		Prep: SW3050B / 9/17/14	Analyst: ML
Arsenic	6.6		1.8	mg/Kg-dry	4	9/18/2014 07:26 AM
Barium	97		1.8	mg/Kg-dry	4	9/18/2014 07:26 AM
Cadmium	ND		0.72	mg/Kg-dry	4	9/18/2014 07:26 AM
Chromium	11		1.8	mg/Kg-dry	4	9/18/2014 07:26 AM
Copper	12		1.8	mg/Kg-dry	4	9/18/2014 07:26 AM
Lead	14		1.8	mg/Kg-dry	4	9/18/2014 07:26 AM
Nickel	18		1.8	mg/Kg-dry	4	9/18/2014 07:26 AM
Selenium	2.8		1.8	mg/Kg-dry	4	9/18/2014 07:26 AM
Silver	ND		1.8	mg/Kg-dry	4	9/18/2014 07:26 AM
Zinc	70		3.6	mg/Kg-dry	4	9/18/2014 07:26 AM
SODIUM ADSORPTION RATIO						
			USDA H60 METHOD		Prep: USDA Method 20B / 9/17/14	Analyst: JEC
Sodium Adsorption Ratio	69		0.010	none	1	9/18/2014
SEMI-VOLATILE ORGANIC COMPOUNDS						
			SW846 8270D		Prep: SW3541 / 9/18/14	Analyst: MK
Acenaphthene	ND		7.5	µg/Kg-dry	1	9/19/2014 11:10 PM
Anthracene	ND		7.5	µg/Kg-dry	1	9/19/2014 11:10 PM
Benzo(a)anthracene	ND		7.5	µg/Kg-dry	1	9/19/2014 11:10 PM
Benzo(a)pyrene	ND		7.5	µg/Kg-dry	1	9/19/2014 11:10 PM
Benzo(b)fluoranthene	ND		7.5	µg/Kg-dry	1	9/19/2014 11:10 PM
Benzo(k)fluoranthene	ND		7.5	µg/Kg-dry	1	9/19/2014 11:10 PM
Chrysene	ND		7.5	µg/Kg-dry	1	9/19/2014 11:10 PM
Dibenzo(a,h)anthracene	ND		7.5	µg/Kg-dry	1	9/19/2014 11:10 PM
Fluoranthene	ND		7.5	µg/Kg-dry	1	9/19/2014 11:10 PM

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

ALS Group USA, Corp

Date: 23-Sep-14

Client: Olsson Associates
Project: Chevron Gray B5 Spill 9.11.14
Sample ID: GB5-SS1
Collection Date: 9/11/2014 01:40 PM

Work Order: 1409667
Lab ID: 1409667-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	ND		7.5	µg/Kg-dry	1	9/19/2014 11:10 PM
Indeno(1,2,3-cd)pyrene	ND		7.5	µg/Kg-dry	1	9/19/2014 11:10 PM
Naphthalene	ND		7.5	µg/Kg-dry	1	9/19/2014 11:10 PM
Pyrene	ND		7.5	µg/Kg-dry	1	9/19/2014 11:10 PM
Surr: 2-Fluorobiphenyl	67.7		12-100	%REC	1	9/19/2014 11:10 PM
Surr: 4-Terphenyl-d14	81.9		25-137	%REC	1	9/19/2014 11:10 PM
Surr: Nitrobenzene-d5	44.1		37-107	%REC	1	9/19/2014 11:10 PM
VOLATILE ORGANIC COMPOUNDS			SW8260B	Prep: SW5035 / 9/15/14		Analyst: RS
Benzene	ND		34	µg/Kg-dry	1	9/20/2014 06:47 AM
Ethylbenzene	ND		34	µg/Kg-dry	1	9/20/2014 06:47 AM
m,p-Xylene	ND		69	µg/Kg-dry	1	9/20/2014 06:47 AM
o-Xylene	ND		34	µg/Kg-dry	1	9/20/2014 06:47 AM
Toluene	ND		34	µg/Kg-dry	1	9/20/2014 06:47 AM
Xylenes, Total	ND		100	µg/Kg-dry	1	9/20/2014 06:47 AM
Surr: 1,2-Dichloroethane-d4	105		70-130	%REC	1	9/20/2014 06:47 AM
Surr: 4-Bromofluorobenzene	95.8		70-130	%REC	1	9/20/2014 06:47 AM
Surr: Dibromofluoromethane	98.0		70-130	%REC	1	9/20/2014 06:47 AM
Surr: Toluene-d8	93.9		70-130	%REC	1	9/20/2014 06:47 AM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHOD	Prep: USDA Method 20B / 9/17/14		Analyst: JB
Electrical Conductivity @ Saturation	61		0.050	mmhos/cm @25	10	9/17/2014 02:00 PM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: JJG
Chromium, Trivalent	11		0.57	mg/Kg-dry	1	9/19/2014 08:34 AM
CHROMIUM, HEXAVALENT			SW7196A	Prep: SW3060A / 9/17/14		Analyst: MB
Chromium, Hexavalent	ND		0.57	mg/Kg-dry	1	9/18/2014 04:00 PM
MOISTURE			A2540 G			Analyst: RLM
Moisture	13		0.050	% of sample	1	9/18/2014 10:25 AM
PH			SW9045D	Prep: EXTRACT / 9/17/14		Analyst: STP
pH	7.8			s.u.	1	9/17/2014 01:00 PM

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

ALS Group USA, Corp

Date: 23-Sep-14

Client: Olsson Associates
Project: Chevron Gray B5 Spill 9.11.14
Sample ID: GB5-SS2
Collection Date: 9/11/2014 01:50 PM

Work Order: 1409667
Lab ID: 1409667-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
DRO (C10-C28)	36		SW8015M		Prep: SW3541 / 9/18/14	Analyst: IT
<i>Surr: 4-Terphenyl-d14</i>	69.9		4.9	mg/Kg-dry	1	9/19/2014 04:53 AM
			39-133	%REC	1	9/19/2014 04:53 AM
GASOLINE RANGE ORGANICS BY GC-FID						
GRO (C6-C10)	ND		SW8015		Prep: SW5035 / 9/15/14	Analyst: IT
<i>Surr: Toluene-d8</i>	113		2.9	mg/Kg-dry	1	9/17/2014 03:28 AM
			50-150	%REC	1	9/17/2014 03:28 AM
MERCURY BY CVAA						
Mercury	0.026		SW7471		Prep: SW7471 / 9/18/14	Analyst: LR
			0.017	mg/Kg-dry	1	9/18/2014 05:53 PM
SOLUBLE CATIONS FOR SAR						
			SW846 6010C		Prep: USDA Method 20B / 9/17/14	Analyst: JEC
Calcium	660		50	mg/L	100	9/18/2014 12:31 PM
Magnesium	84		20	mg/L	100	9/18/2014 12:31 PM
Sodium	7,000		20	mg/L	100	9/18/2014 12:31 PM
METALS BY ICP-MS						
			SW6020A		Prep: SW3050B / 9/17/14	Analyst: ML
Arsenic	7.1		1.9	mg/Kg-dry	4	9/18/2014 07:32 AM
Barium	150		1.9	mg/Kg-dry	4	9/18/2014 07:32 AM
Cadmium	ND		0.77	mg/Kg-dry	4	9/18/2014 07:32 AM
Chromium	14		1.9	mg/Kg-dry	4	9/18/2014 07:32 AM
Copper	14		1.9	mg/Kg-dry	4	9/18/2014 07:32 AM
Lead	15		1.9	mg/Kg-dry	4	9/18/2014 07:32 AM
Nickel	19		1.9	mg/Kg-dry	4	9/18/2014 07:32 AM
Selenium	2.4		1.9	mg/Kg-dry	4	9/18/2014 07:32 AM
Silver	ND		1.9	mg/Kg-dry	4	9/18/2014 07:32 AM
Zinc	71		3.8	mg/Kg-dry	4	9/18/2014 07:32 AM
SODIUM ADSORPTION RATIO						
			USDA H60 METHOD		Prep: USDA Method 20B / 9/17/14	Analyst: JEC
Sodium Adsorption Ratio	68		0.010	none	1	9/18/2014
SEMI-VOLATILE ORGANIC COMPOUNDS						
			SW846 8270D		Prep: SW3541 / 9/18/14	Analyst: MK
Acenaphthene	ND		7.8	µg/Kg-dry	1	9/19/2014 11:35 PM
Anthracene	ND		7.8	µg/Kg-dry	1	9/19/2014 11:35 PM
Benzo(a)anthracene	ND		7.8	µg/Kg-dry	1	9/19/2014 11:35 PM
Benzo(a)pyrene	ND		7.8	µg/Kg-dry	1	9/19/2014 11:35 PM
Benzo(b)fluoranthene	ND		7.8	µg/Kg-dry	1	9/19/2014 11:35 PM
Benzo(k)fluoranthene	ND		7.8	µg/Kg-dry	1	9/19/2014 11:35 PM
Chrysene	ND		7.8	µg/Kg-dry	1	9/19/2014 11:35 PM
Dibenzo(a,h)anthracene	ND		7.8	µg/Kg-dry	1	9/19/2014 11:35 PM
Fluoranthene	ND		7.8	µg/Kg-dry	1	9/19/2014 11:35 PM

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

ALS Group USA, Corp

Date: 23-Sep-14

Client: Olsson Associates
Project: Chevron Gray B5 Spill 9.11.14
Sample ID: GB5-SS2
Collection Date: 9/11/2014 01:50 PM

Work Order: 1409667
Lab ID: 1409667-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	ND		7.8	µg/Kg-dry	1	9/19/2014 11:35 PM
Indeno(1,2,3-cd)pyrene	ND		7.8	µg/Kg-dry	1	9/19/2014 11:35 PM
Naphthalene	ND		7.8	µg/Kg-dry	1	9/19/2014 11:35 PM
Pyrene	19		7.8	µg/Kg-dry	1	9/19/2014 11:35 PM
Surr: 2-Fluorobiphenyl	61.2		12-100	%REC	1	9/19/2014 11:35 PM
Surr: 4-Terphenyl-d14	79.2		25-137	%REC	1	9/19/2014 11:35 PM
Surr: Nitrobenzene-d5	40.9		37-107	%REC	1	9/19/2014 11:35 PM
VOLATILE ORGANIC COMPOUNDS			SW8260B	Prep: SW5035 / 9/15/14		Analyst: AK
Benzene	ND		35	µg/Kg-dry	1	9/18/2014 11:23 AM
Ethylbenzene	ND		35	µg/Kg-dry	1	9/18/2014 11:23 AM
m,p-Xylene	ND		70	µg/Kg-dry	1	9/18/2014 11:23 AM
o-Xylene	ND		35	µg/Kg-dry	1	9/18/2014 11:23 AM
Toluene	ND		35	µg/Kg-dry	1	9/18/2014 11:23 AM
Xylenes, Total	ND		110	µg/Kg-dry	1	9/18/2014 11:23 AM
Surr: 1,2-Dichloroethane-d4	99.0		70-130	%REC	1	9/18/2014 11:23 AM
Surr: 4-Bromofluorobenzene	95.8		70-130	%REC	1	9/18/2014 11:23 AM
Surr: Dibromofluoromethane	98.2		70-130	%REC	1	9/18/2014 11:23 AM
Surr: Toluene-d8	89.1		70-130	%REC	1	9/18/2014 11:23 AM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHOD	Prep: USDA Method 20B / 9/17/14		Analyst: JB
Electrical Conductivity @ Saturation	40		0.050	mmhos/cm @25	10	9/17/2014 02:00 PM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: JJG
Chromium, Trivalent	13		0.59	mg/Kg-dry	1	9/19/2014 08:34 AM
CHROMIUM, HEXAVALENT			SW7196A	Prep: SW3060A / 9/17/14		Analyst: MB
Chromium, Hexavalent	ND		0.59	mg/Kg-dry	1	9/18/2014 04:00 PM
MOISTURE			A2540 G			Analyst: RLM
Moisture	15		0.050	% of sample	1	9/18/2014 10:25 AM
PH			SW9045D	Prep: EXTRACT / 9/17/14		Analyst: STP
pH	8.0			s.u.	1	9/17/2014 01:00 PM

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

ALS Group USA, Corp

Date: 23-Sep-14

Client: Olsson Associates
Project: Chevron Gray B5 Spill 9.11.14
Sample ID: GB5-BG1
Collection Date: 9/11/2014 02:00 PM

Work Order: 1409667
Lab ID: 1409667-03
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA						
Mercury	ND		SW7471 0.016	mg/Kg-dry	Prep: SW7471 / 9/18/14 1	Analyst: LR 9/18/2014 05:55 PM
SOLUBLE CATIONS FOR SAR						
			SW846 6010C		Prep: USDA Method 20B / 9/17/14	Analyst: JEC
Calcium	56		5.0	mg/L	10	9/18/2014 12:41 PM
Magnesium	20		2.0	mg/L	10	9/18/2014 12:41 PM
Sodium	430		2.0	mg/L	10	9/18/2014 12:41 PM
METALS BY ICP-MS						
			SW6020A		Prep: SW3050B / 9/17/14	Analyst: ML
Arsenic	6.9		1.5	mg/Kg-dry	4	9/18/2014 07:38 AM
Barium	120		1.5	mg/Kg-dry	4	9/18/2014 07:38 AM
Cadmium	ND		0.60	mg/Kg-dry	4	9/18/2014 07:38 AM
Chromium	15		1.5	mg/Kg-dry	4	9/18/2014 07:38 AM
Copper	12		1.5	mg/Kg-dry	4	9/18/2014 07:38 AM
Lead	14		1.5	mg/Kg-dry	4	9/18/2014 07:38 AM
Nickel	18		1.5	mg/Kg-dry	4	9/18/2014 07:38 AM
Selenium	3.2		1.5	mg/Kg-dry	4	9/18/2014 07:38 AM
Silver	ND		1.5	mg/Kg-dry	4	9/18/2014 07:38 AM
Zinc	69		3.0	mg/Kg-dry	4	9/18/2014 07:38 AM
SODIUM ADSORPTION RATIO						
			USDA H60 METHOD		Prep: USDA Method 20B / 9/17/14	Analyst: JEC
Sodium Adsorption Ratio	13		0.010	none	1	9/18/2014
ELECTRICAL CONDUCTIVITY (SAR)						
			USDA H60 METHOD		Prep: USDA Method 20B / 9/17/14	Analyst: JB
Electrical Conductivity @ Saturation	2.5		0.050	mmhos/cm @25	10	9/17/2014 02:00 PM
CHROMIUM, TRIVALENT						
			CALCULATION			Analyst: JJG
Chromium, Trivalent	15		0.55	mg/Kg-dry	1	9/19/2014 08:34 AM
CHROMIUM, HEXAVALENT						
			SW7196A		Prep: SW3060A / 9/17/14	Analyst: MB
Chromium, Hexavalent	ND		0.55	mg/Kg-dry	1	9/18/2014 04:00 PM
MOISTURE						
			A2540 G			Analyst: RLM
Moisture	8.4		0.050	% of sample	1	9/18/2014 10:25 AM
PH						
			SW9045D		Prep: EXTRACT / 9/17/14	Analyst: STP
pH	8.9			s.u.	1	9/17/2014 01:00 PM

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

ALS Group USA, Corp

Date: 23-Sep-14

Client: Olsson Associates
Project: Chevron Gray B5 Spill 9.11.14
Sample ID: GB5-SS3
Collection Date: 9/11/2014 02:10 PM

Work Order: 1409667
Lab ID: 1409667-04
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
			SW8015M		Prep: SW3541 / 9/18/14	Analyst: IT
DRO (C10-C28)	ND		4.6	mg/Kg-dry	1	9/19/2014 05:21 AM
Surr: 4-Terphenyl-d14	73.2		39-133	%REC	1	9/19/2014 05:21 AM
GASOLINE RANGE ORGANICS BY GC-FID						
			SW8015		Prep: SW5035 / 9/15/14	Analyst: IT
GRO (C6-C10)	ND		2.8	mg/Kg-dry	1	9/17/2014 03:53 AM
Surr: Toluene-d8	112		50-150	%REC	1	9/17/2014 03:53 AM
MERCURY BY CVAA						
			SW7471		Prep: SW7471 / 9/18/14	Analyst: LR
Mercury	0.017		0.017	mg/Kg-dry	1	9/18/2014 05:57 PM
SOLUBLE CATIONS FOR SAR						
			SW846 6010C		Prep: USDA Method 20B / 9/17/14	Analyst: JEC
Calcium	660		5.0	mg/L	10	9/18/2014 12:46 PM
Magnesium	78		2.0	mg/L	10	9/18/2014 12:46 PM
Sodium	180		2.0	mg/L	10	9/18/2014 12:46 PM
METALS BY ICP-MS						
			SW6020A		Prep: SW3050B / 9/17/14	Analyst: ML
Arsenic	7.4		1.6	mg/Kg-dry	4	9/18/2014 07:44 AM
Barium	150		1.6	mg/Kg-dry	4	9/18/2014 07:44 AM
Cadmium	ND		0.65	mg/Kg-dry	4	9/18/2014 07:44 AM
Chromium	12		1.6	mg/Kg-dry	4	9/18/2014 07:44 AM
Copper	13		1.6	mg/Kg-dry	4	9/18/2014 07:44 AM
Lead	16		1.6	mg/Kg-dry	4	9/18/2014 07:44 AM
Nickel	19		1.6	mg/Kg-dry	4	9/18/2014 07:44 AM
Selenium	2.5		1.6	mg/Kg-dry	4	9/18/2014 07:44 AM
Silver	ND		1.6	mg/Kg-dry	4	9/18/2014 07:44 AM
Zinc	73		3.2	mg/Kg-dry	4	9/18/2014 07:44 AM
SODIUM ADSORPTION RATIO						
			USDA H60 METHOD		Prep: USDA Method 20B / 9/17/14	Analyst: JEC
Sodium Adsorption Ratio	1.7		0.010	none	1	9/18/2014
SEMI-VOLATILE ORGANIC COMPOUNDS						
			SW846 8270D		Prep: SW3541 / 9/18/14	Analyst: RM
Acenaphthene	ND		7.4	µg/Kg-dry	1	9/20/2014 05:41 PM
Anthracene	ND		7.4	µg/Kg-dry	1	9/20/2014 05:41 PM
Benzo(a)anthracene	ND		7.4	µg/Kg-dry	1	9/20/2014 05:41 PM
Benzo(a)pyrene	ND		7.4	µg/Kg-dry	1	9/20/2014 05:41 PM
Benzo(b)fluoranthene	ND		7.4	µg/Kg-dry	1	9/20/2014 05:41 PM
Benzo(k)fluoranthene	ND		7.4	µg/Kg-dry	1	9/20/2014 05:41 PM
Chrysene	ND		7.4	µg/Kg-dry	1	9/20/2014 05:41 PM
Dibenzo(a,h)anthracene	ND		7.4	µg/Kg-dry	1	9/20/2014 05:41 PM
Fluoranthene	ND		7.4	µg/Kg-dry	1	9/20/2014 05:41 PM

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

ALS Group USA, Corp

Date: 23-Sep-14

Client: Olsson Associates
Project: Chevron Gray B5 Spill 9.11.14
Sample ID: GB5-SS3
Collection Date: 9/11/2014 02:10 PM

Work Order: 1409667
Lab ID: 1409667-04
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	ND		7.4	µg/Kg-dry	1	9/20/2014 05:41 PM
Indeno(1,2,3-cd)pyrene	ND		7.4	µg/Kg-dry	1	9/20/2014 05:41 PM
Naphthalene	ND		7.4	µg/Kg-dry	1	9/20/2014 05:41 PM
Pyrene	ND		7.4	µg/Kg-dry	1	9/20/2014 05:41 PM
Surr: 2-Fluorobiphenyl	62.9		12-100	%REC	1	9/20/2014 05:41 PM
Surr: 4-Terphenyl-d14	78.4		25-137	%REC	1	9/20/2014 05:41 PM
Surr: Nitrobenzene-d5	57.3		37-107	%REC	1	9/20/2014 05:41 PM
VOLATILE ORGANIC COMPOUNDS			SW8260B	Prep: SW5035 / 9/15/14		Analyst: RS
Benzene	ND		33	µg/Kg-dry	1	9/20/2014 07:11 AM
Ethylbenzene	ND		33	µg/Kg-dry	1	9/20/2014 07:11 AM
m,p-Xylene	ND		67	µg/Kg-dry	1	9/20/2014 07:11 AM
o-Xylene	ND		33	µg/Kg-dry	1	9/20/2014 07:11 AM
Toluene	ND		33	µg/Kg-dry	1	9/20/2014 07:11 AM
Xylenes, Total	ND		100	µg/Kg-dry	1	9/20/2014 07:11 AM
Surr: 1,2-Dichloroethane-d4	106		70-130	%REC	1	9/20/2014 07:11 AM
Surr: 4-Bromofluorobenzene	95.3		70-130	%REC	1	9/20/2014 07:11 AM
Surr: Dibromofluoromethane	99.2		70-130	%REC	1	9/20/2014 07:11 AM
Surr: Toluene-d8	95.2		70-130	%REC	1	9/20/2014 07:11 AM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHOD	Prep: USDA Method 20B / 9/17/14		Analyst: JB
Electrical Conductivity @ Saturation	5.0		0.050	mmhos/cm @25	10	9/17/2014 02:00 PM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: JJG
Chromium, Trivalent	12		0.56	mg/Kg-dry	1	9/19/2014 08:34 AM
CHROMIUM, HEXAVALENT			SW7196A	Prep: SW3060A / 9/17/14		Analyst: MB
Chromium, Hexavalent	ND		0.55	mg/Kg-dry	1	9/18/2014 04:00 PM
MOISTURE			A2540 G			Analyst: RLM
Moisture	10		0.050	% of sample	1	9/18/2014 10:25 AM
PH			SW9045D	Prep: EXTRACT / 9/17/14		Analyst: STP
pH	7.8			s.u.	1	9/17/2014 01:00 PM

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

ALS Group USA, Corp

Date: 23-Sep-14

Client: Olsson Associates

Project: Chevron Gray B5 Spill 9.11.14

Sample ID: GB5-BG2

Collection Date: 9/11/2014 02:15 PM

Work Order: 1409667

Lab ID: 1409667-05

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>						
METALS BY ICP-MS			SW6020A		Prep: SW3050B / 9/17/14	Analyst: ML
Arsenic	8.4		1.6	mg/Kg-dry	4	9/18/2014 07:50 AM
MOISTURE			A2540 G			Analyst: RLM
Moisture	8.1		0.050	% of sample	1	9/17/2014 12:47 PM

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

ALS Group USA, Corp

Date: 23-Sep-14

Client: Olsson Associates

Work Order: 1409667

Project: Chevron Gray B5 Spill 9.11.14

QC BATCH REPORT

Batch ID: **62901**

Instrument ID **GC8**

Method: **SW8015C**

MBLK		Sample ID: DBLKS1-62901-62901				Units: mg/Kg		Analysis Date: 9/18/2014 06:47 PM		
Client ID:		Run ID: GC8_140918A				SeqNo: 2942820		Prep Date: 9/18/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	ND	5.0								
Surr: 4-Terphenyl-d14	1.59	0	2	0	79.5	39-133		0		

LCS		Sample ID: DLCSS1-62901-62901				Units: mg/Kg		Analysis Date: 9/18/2014 07:15 PM		
Client ID:		Run ID: GC8_140918A				SeqNo: 2942822		Prep Date: 9/18/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	162.5	5.0	200	0	81.3	61-109		0		
Surr: 4-Terphenyl-d14	1.542	0	2	0	77.1	39-133		0		

MS		Sample ID: 1409642-01B MS				Units: mg/Kg		Analysis Date: 9/18/2014 07:43 PM		
Client ID:		Run ID: GC8_140918A				SeqNo: 2942824		Prep Date: 9/18/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	253.1	8.1	325.9	6.942	75.5	48-110		0		
Surr: 4-Terphenyl-d14	2.38	0	3.259	0	73	39-133		0		

MSD		Sample ID: 1409642-01B MSD				Units: mg/Kg		Analysis Date: 9/18/2014 08:10 PM		
Client ID:		Run ID: GC8_140918A				SeqNo: 2942826		Prep Date: 9/18/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	260.7	8.1	323.6	6.942	78.4	48-110	253.1	2.98	30	
Surr: 4-Terphenyl-d14	2.403	0	3.236	0	74.3	39-133	2.38	0.976	30	

The following samples were analyzed in this batch: | 1409667-01A | 1409667-02A | 1409667-04A |

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

Client: Olsson Associates
 Work Order: 1409667
 Project: Chevron Gray B5 Spill 9.11.14

QC BATCH REPORT

Batch ID: **62789** Instrument ID **GC9** Method: **SW8015**

MBLK		Sample ID: MBLK-62789-62789				Units: µg/Kg		Analysis Date: 9/16/2014 04:03 PM		
Client ID:		Run ID: GC9_140916B				SeqNo: 2938454		Prep Date: 9/15/2014		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								
Surr: Toluene-d8	5816	0	5000	0	116	50-150	0			

LCS		Sample ID: LCS-62789-62789				Units: µg/Kg		Analysis Date: 9/16/2014 03:12 PM		
Client ID:		Run ID: GC9_140916B				SeqNo: 2938452		Prep Date: 9/15/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	524400	2,500	500000	0	105	70-130	0			
Surr: Toluene-d8	4586	0	5000	0	91.7	50-150	0			

MS		Sample ID: 1409631-02B MS				Units: µg/Kg		Analysis Date: 9/17/2014 04:37 PM		
Client ID:		Run ID: GC9_140917A				SeqNo: 2940484		Prep Date: 9/15/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	488600	2,500	500000	0	97.7	70-130	0			
Surr: Toluene-d8	5802	0	5000	0	116	50-150	0			

MSD		Sample ID: 1409631-02B MSD				Units: µg/Kg		Analysis Date: 9/17/2014 05:02 PM		
Client ID:		Run ID: GC9_140917A				SeqNo: 2940486		Prep Date: 9/15/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	489900	2,500	500000	0	98	70-130	488600	0.272	30	
Surr: Toluene-d8	5822	0	5000	0	116	50-150	5802	0.335	30	

The following samples were analyzed in this batch:

1409667-01A	1409667-02A	1409667-04A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Olsson Associates
Work Order: 1409667
Project: Chevron Gray B5 Spill 9.11.14

QC BATCH REPORT

Batch ID: **62944** Instrument ID **HG1** Method: **SW7471**

Sample ID: MBLK-62944-62944					Units: mg/Kg		Analysis Date: 9/18/2014 05:43 PM				
Client ID:			Run ID: HG1_140918A			SeqNo: 2942059		Prep Date: 9/18/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Mercury	0.001833	0.020								J	

LCS		Sample ID: LCS-62944-62944				Units:mg/Kg		Analysis Date: 9/18/2014 05:45 PM		
Client ID:		Run ID: HG1_140918A			SeqNo:2942060		Prep Date: 9/18/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1872	0.020	0.1665	0	112	80-120	0			

MS	Sample ID: 1409698-03BMS					Units:mg/Kg		Analysis Date: 9/18/2014 06:14 PM		
	Client ID:		Run ID: HG1_140918A			SeqNo:2942071		Prep Date: 9/18/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1259	0.013	0.1054	0.01173	108	75-125	0			

MSD	Sample ID: 1409698-03BMSD					Units:mg/Kg		Analysis Date: 9/18/2014 06:16 PM		
	Client ID:		Run ID: HG1_140918A			SeqNo:2942072		Prep Date: 9/18/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1272	0.013	0.1052	0.01173	110	75-125	0.1259	0.955	35	

The following samples were analyzed in this batch:

1409667-01A	1409667-02A	1409667-03A
1409667-04A		

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

Client: Olsson Associates
 Work Order: 1409667
 Project: Chevron Gray B5 Spill 9.11.14

QC BATCH REPORT

Batch ID: **62881** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK		Sample ID: MBLK-62881-62881				Units: mg/Kg		Analysis Date: 9/18/2014 07:13 AM		
Client ID:		Run ID: ICPMS1_140917A				SeqNo: 2940295		Prep Date: 9/17/2014		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	ND	0.10								
Chromium	ND	0.25								
Copper	ND	0.25								
Lead	ND	0.25								
Nickel	ND	0.25								
Selenium	0.0692	0.25								J
Silver	ND	0.25								
Zinc	0.0867	0.50								J

LCS		Sample ID: LCS-62881-62881				Units: mg/Kg		Analysis Date: 9/18/2014 07:19 AM		
Client ID:		Run ID: ICPMS1_140917A				SeqNo: 2940296		Prep Date: 9/17/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.58	0.25	5	0	91.6	80-120	0			
Barium	4.762	0.25	5	0	95.2	80-120	0			
Cadmium	4.781	0.10	5	0	95.6	80-120	0			
Chromium	5.035	0.25	5	0	101	80-120	0			
Copper	4.827	0.25	5	0	96.5	80-120	0			
Lead	4.756	0.25	5	0	95.1	80-120	0			
Nickel	5.02	0.25	5	0	100	80-120	0			
Selenium	4.56	0.25	5	0	91.2	80-120	0			
Silver	4.889	0.25	5	0	97.8	80-120	0			
Zinc	4.738	0.50	5	0	94.8	80-120	0			

MS		Sample ID: 1409698-03BMS				Units: mg/Kg		Analysis Date: 9/18/2014 11:59 AM		
Client ID:		Run ID: ICPMS1_140917A				SeqNo: 2940882		Prep Date: 9/17/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	7.452	0.35	6.906	1.281	89.4	75-125	0			
Barium	36.35	0.35	6.906	27.41	129	75-125	0			S
Cadmium	6.622	0.14	6.906	0.08936	94.6	75-125	0			
Chromium	11.82	0.35	6.906	4.349	108	75-125	0			
Copper	11.01	0.35	6.906	3.607	107	75-125	0			
Lead	21.71	0.35	6.906	13.98	112	75-125	0			
Nickel	11.47	0.35	6.906	3.86	110	75-125	0			
Selenium	6.041	0.35	6.906	0.3531	82.4	75-125	0			
Silver	6.127	0.35	6.906	0.006834	88.6	75-125	0			
Zinc	39.93	0.69	6.906	16.86	334	75-125	0			S

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

Client: Olsson Associates
Work Order: 1409667
Project: Chevron Gray B5 Spill 9.11.14

QC BATCH REPORT

Batch ID: **62881** Instrument ID **ICPMS1** Method: **SW6020A**

MSD		Sample ID: 1409698-03BMSD				Units: mg/Kg		Analysis Date: 9/18/2014 12:05 PM		
Client ID:		Run ID: ICPMS1_140917A				SeqNo: 2940883		Prep Date: 9/17/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	7.542	0.35	6.944	1.281	90.2	75-125	7.452	1.2	25	
Barium	36.17	0.35	6.944	27.41	126	75-125	36.35	0.497	25	S
Cadmium	6.708	0.14	6.944	0.08936	95.3	75-125	6.622	1.29	25	
Chromium	11.47	0.35	6.944	4.349	102	75-125	11.82	3.07	25	
Copper	9.285	0.35	6.944	3.607	81.8	75-125	11.01	17	25	
Lead	18.97	0.35	6.944	13.98	71.8	75-125	21.71	13.5	25	S
Nickel	10.34	0.35	6.944	3.86	93.3	75-125	11.47	10.4	25	
Selenium	6.05	0.35	6.944	0.3531	82	75-125	6.041	0.142	25	
Silver	6.281	0.35	6.944	0.006834	90.4	75-125	6.127	2.49	25	
Zinc	27.19	0.69	6.944	16.86	149	75-125	39.93	38	25	SR

The following samples were analyzed in this batch:

1409667-01A	1409667-02A	1409667-03A
1409667-04A	1409667-05A	

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

Client: Olsson Associates
 Work Order: 1409667
 Project: Chevron Gray B5 Spill 9.11.14

QC BATCH REPORT

Batch ID: 62900 Instrument ID SVMS4 Method: SW846 8270D

Sample ID: SBLKS1-62900-62900				Units: µg/Kg			Analysis Date: 9/19/2014 10:58 AM			
Client ID:		Run ID: SVMS4_140919A			SeqNo:2944294		Prep Date: 9/18/2014		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	6.333	6.7								J
Indeno(1,2,3-cd)pyrene	ND	6.7								
Naphthalene	ND	6.7								
Pyrene	ND	6.7								
Surr: 2-Fluorobiphenyl	1011	0	1667	0	60.7	12-100		0		
Surr: 4-Terphenyl-d14	1549	0	1667	0	93	25-137		0		
Surr: Nitrobenzene-d5	667.3	0	1667	0	40	37-107		0		

LCS		Sample ID: SLCSS1-62900-62900				Units: µg/Kg		Analysis Date: 9/19/2014 11:23 AM		
Client ID:		Run ID: SVMS4_140919A			SeqNo:2944470		Prep Date: 9/18/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	568.7	6.7	666.7	0	85.3	45-110	0			
Anthracene	686.3	6.7	666.7	0	103	55-105	0			
Benzo(a)anthracene	705.3	6.7	666.7	0	106	50-110	0			
Benzo(a)pyrene	674.7	6.7	666.7	0	101	50-110	0			
Benzo(b)fluoranthene	642	6.7	666.7	0	96.3	45-115	0			
Benzo(k)fluoranthene	655.3	6.7	666.7	0	98.3	45-115	0			
Chrysene	709.7	6.7	666.7	0	106	55-110	0			
Dibenzo(a,h)anthracene	811.7	6.7	666.7	0	122	40-125	0			
Fluoranthene	706.7	6.7	666.7	0	106	55-115	0			
Fluorene	684.7	6.7	666.7	0	103	50-110	0			
Indeno(1,2,3-cd)pyrene	778	6.7	666.7	0	117	40-120	0			
Naphthalene	536	6.7	666.7	0	80.4	40-105	0			
Pyrene	741	6.7	666.7	0	111	45-125	0			
Surr: 2-Fluorobiphenyl	1213	0	1667	0	72.8	12-100	0			
Surr: 4-Terphenyl-d14	1667	0	1667	0	100	25-137	0			
Surr: Nitrobenzene-d5	806.7	0	1667	0	48.4	37-107	0			

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

Client: Olsson Associates
 Work Order: 1409667
 Project: Chevron Gray B5 Spill 9.11.14

QC BATCH REPORT

Batch ID: 62900 Instrument ID SVMS4 Method: SW846 8270D

MS				Sample ID: 1409642-04B MS				Units: µg/Kg		Analysis Date: 9/19/2014 12:36 PM	
Client ID:			Run ID: SVMS4_140919A			SeqNo:2944296		Prep Date: 9/18/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	1067	13	1292	0	82.6	45-110	0				
Anthracene	1381	13	1292	0	107	55-105	0			S	
Benzo(a)anthracene	1292	13	1292	0	100	50-110	0				
Benzo(a)pyrene	1256	13	1292	0	97.2	50-110	0				
Benzo(b)fluoranthene	1178	13	1292	0	91.2	45-115	0				
Benzo(k)fluoranthene	1205	13	1292	0	93.2	45-115	0				
Chrysene	1440	13	1292	0	111	55-110	0			S	
Dibenzo(a,h)anthracene	1450	13	1292	0	112	40-125	0				
Fluoranthene	1271	13	1292	0	98.3	55-115	0				
Fluorene	1315	13	1292	0	102	50-110	0				
Indeno(1,2,3-cd)pyrene	1614	13	1292	0	125	40-120	0			S	
Naphthalene	1039	13	1292	0	80.4	40-105	0				
Pyrene	1294	13	1292	0	100	45-125	0				
Surr: 2-Fluorobiphenyl	2320	0	3230	0	71.8	12-100	0				
Surr: 4-Terphenyl-d14	2931	0	3230	0	90.8	25-137	0				
Surr: Nitrobenzene-d5	1508	0	3230	0	46.7	37-107	0				

MSD				Sample ID: 1409642-04B MSD				Units: µg/Kg		Analysis Date: 9/19/2014 01:01 PM	
Client ID:			Run ID: SVMS4_140919A			SeqNo:2944297		Prep Date: 9/18/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	1052	13	1309	0	80.4	45-110	1067	1.38	30		
Anthracene	1325	13	1309	0	101	55-105	1381	4.11	30		
Benzo(a)anthracene	1274	13	1309	0	97.3	50-110	1292	1.37	30		
Benzo(a)pyrene	1230	13	1309	0	93.9	50-110	1256	2.13	30		
Benzo(b)fluoranthene	1176	13	1309	0	89.8	45-115	1178	0.227	30		
Benzo(k)fluoranthene	1229	13	1309	0	93.9	45-115	1205	2.01	30		
Chrysene	1434	13	1309	0	110	55-110	1440	0.4	30		
Dibenzo(a,h)anthracene	1403	13	1309	0	107	40-125	1450	3.33	30		
Fluoranthene	1248	13	1309	0	95.3	55-115	1271	1.78	30		
Fluorene	1196	13	1309	0	91.4	50-110	1315	9.45	30		
Indeno(1,2,3-cd)pyrene	1508	13	1309	0	115	40-120	1614	6.76	30		
Naphthalene	1076	13	1309	0	82.2	40-105	1039	3.53	30		
Pyrene	1260	13	1309	0	96.2	45-125	1294	2.65	30		
Surr: 2-Fluorobiphenyl	2318	0	3273	0	70.8	12-100	2320	0.054	40		
Surr: 4-Terphenyl-d14	2837	0	3273	0	86.7	25-137	2931	3.28	40		
Surr: Nitrobenzene-d5	1537	0	3273	0	47	37-107	1508	1.92	40		

The following samples were analyzed in this batch:

1409667-01A 1409667-02A 1409667-04A

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

Client: Olsson Associates
 Work Order: 1409667
 Project: Chevron Gray B5 Spill 9.11.14

QC BATCH REPORT

Batch ID: **62791** Instrument ID **VMS8** Method: **SW8260B**

MBLK				Sample ID: MBLK-62791-62791				Units: µg/Kg			Analysis Date: 9/16/2014 05:38 AM			
Client ID:				Run ID: VMS8_140915B				SeqNo:2937095			Prep Date: 9/15/2014		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												
Surr: 1,2-Dichloroethane-d4	989	0	1000	0	98.9	70-130		0						
Surr: 4-Bromofluorobenzene	936	0	1000	0	93.6	70-130		0						
Surr: Dibromofluoromethane	997	0	1000	0	99.7	70-130		0						
Surr: Toluene-d8	913	0	1000	0	91.3	70-130		0						

LCS				Sample ID: LCS-62791-62791			Units: µg/Kg		Analysis Date: 9/16/2014 01:34 AM		
Client ID:			Run ID: VMS8_140915B			SeqNo:2937093		Prep Date: 9/15/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	1006	30	1000	0	101	75-125	0				
Ethylbenzene	1036	30	1000	0	104	75-125	0				
m,p-Xylene	2077	60	2000	0	104	80-125	0				
o-Xylene	1038	30	1000	0	104	75-125	0				
Toluene	985.5	30	1000	0	98.6	70-125	0				
Xylenes, Total	3116	90	3000	0	104	75-125	0				
Surr: 1,2-Dichloroethane-d4	975.5	0	1000	0	97.6	70-130	0				
Surr: 4-Bromofluorobenzene	1024	0	1000	0	102	70-130	0				
Surr: Dibromofluoromethane	1005	0	1000	0	100	70-130	0				
Surr: Toluene-d8	959	0	1000	0	95.9	70-130	0				

MS				Sample ID: 1409667-02A MS				Units: µg/Kg		Analysis Date: 9/18/2014 11:47 AM	
Client ID: GB5-SS2			Run ID: VMS8_140917B			SeqNo:2940997		Prep Date: 9/15/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	955.5	30	1000	0	95.6	75-125	0				
Ethylbenzene	924.5	30	1000	0	92.4	75-125	0				
m,p-Xylene	1879	60	2000	0	94	80-125	0				
o-Xylene	938	30	1000	0	93.8	75-125	0				
Toluene	870.5	30	1000	0	87	70-125	0				
Xylenes, Total	2817	90	3000	0	93.9	75-125	0				
Surr: 1,2-Dichloroethane-d4	980.5	0	1000	0	98	70-130	0				
Surr: 4-Bromofluorobenzene	984	0	1000	0	98.4	70-130	0				
Surr: Dibromofluoromethane	1025	0	1000	0	102	70-130	0				
Surr: Toluene-d8	907.5	0	1000	0	90.8	70-130	0				

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

Client: Olsson Associates
Work Order: 1409667
Project: Chevron Gray B5 Spill 9.11.14

QC BATCH REPORT

Batch ID: **62791** Instrument ID **VMS8** Method: **SW8260B**

MSD				Sample ID: 1409667-02A MSD			Units: µg/Kg		Analysis Date: 9/18/2014 12:12 PM	
Client ID: GB5-SS2				Run ID: VMS8_140917B			SeqNo: 2941000		Prep Date: 9/15/2014	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	902	30	1000	0	90.2	75-125	955.5	5.76	30	
Ethylbenzene	933	30	1000	0	93.3	75-125	924.5	0.915	30	
m,p-Xylene	1846	60	2000	0	92.3	80-125	1879	1.8	30	
o-Xylene	942	30	1000	0	94.2	75-125	938	0.426	30	
Toluene	879	30	1000	0	87.9	70-125	870.5	0.972	30	
Xylenes, Total	2788	90	3000	0	92.9	75-125	2817	1.05	30	
Surr: 1,2-Dichloroethane-d4	957	0	1000	0	95.7	70-130	980.5	2.43	30	
Surr: 4-Bromofluorobenzene	999	0	1000	0	99.9	70-130	984	1.51	30	
Surr: Dibromofluoromethane	975.5	0	1000	0	97.6	70-130	1025	4.95	30	
Surr: Toluene-d8	893.5	0	1000	0	89.4	70-130	907.5	1.55	30	

The following samples were analyzed in this batch: 1409667-01A 1409667-02A 1409667-04A

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

Client: Olsson Associates
Work Order: 1409667
Project: Chevron Gray B5 Spill 9.11.14

QC BATCH REPORT

Batch ID: **62793** Instrument ID **WETCHEM** Method: **USDA H60 Method**

DUP		Sample ID: 1409667-02B DUP				Units: mmhos/cm @25°C		Analysis Date: 9/17/2014 02:00 PM		
Client ID: GB5-SS2		Run ID: WETCHEM_1409171				SeqNo: 2939237		Prep Date: 9/17/2014		DF: 10
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	39.1	0.050	0	0	0		40.4	3.27	50	

The following samples were analyzed in this batch:

1409667-01B	1409667-02B	1409667-03B
1409667-04B		

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

Client: Olsson Associates
Work Order: 1409667
Project: Chevron Gray B5 Spill 9.11.14

QC BATCH REPORT

Batch ID: **62871** Instrument ID **WETCHEM** Method: **SW9045D**

LCS					Sample ID: LCS-R148365-62871					Units:s.u.			Analysis Date: 9/17/2014 01:00 PM		
Client ID:				Run ID: WETCHEM_140917Q				SeqNo:2939720			Prep Date: 9/17/2014			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: 1409663-03A DUP					Units:s.u.			Analysis Date: 9/17/2014 01:00 PM		
Client ID:				Run ID: WETCHEM_140917Q				SeqNo:2939724			Prep Date: 9/17/2014			DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				
pH		8.39	0	0	0	0	0-0	8.4	0.119	20					

Sample ID: 1409739-02B DUP					Units:s.u.		Analysis Date: 9/17/2014 01:00 PM				
Client ID:			Run ID: WETCHEM_140917Q			SeqNo:2939732		Prep Date: 9/17/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
pH	8.71	0	0	0	0	0-0	8.7	0.115	20		

The following samples were analyzed in this batch:

1409667-01A	1409667-02A	1409667-03A
1409667-04A		

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

Client: Olsson Associates
 Work Order: 1409667
 Project: Chevron Gray B5 Spill 9.11.14

QC BATCH REPORT

Batch ID: **62951** Instrument ID **WETCHEM** Method: **SW7196A**

MBLK		Sample ID: MBLK-62951-62951				Units: mg/Kg		Analysis Date: 9/18/2014 04:00 PM		
Client ID:		Run ID: WETCHEM_140918K				SeqNo: 2941981		Prep Date: 9/17/2014		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-62951-62951				Units: mg/Kg		Analysis Date: 9/18/2014 04:00 PM		
Client ID:		Run ID: WETCHEM_140918K				SeqNo: 2941980		Prep Date: 9/17/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.72 0.50 2 0 86 80-120 0

MS		Sample ID: 1409667-03A MS				Units: mg/Kg		Analysis Date: 9/18/2014 04:00 PM		
Client ID: GB5-BG1		Run ID: WETCHEM_140918K				SeqNo: 2941973		Prep Date: 9/17/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.765 0.50 1.992 0.164 80.4 75-125 0

MS		Sample ID: 1409667-03A MSI				Units: mg/Kg		Analysis Date: 9/18/2014 04:00 PM		
Client ID: GB5-BG1		Run ID: WETCHEM_140918K				SeqNo: 2941975		Prep Date: 9/17/2014		DF: 100
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1073 49 1018 0.164 105 75-125 0

MSD		Sample ID: 1409667-03A MSD				Units: mg/Kg		Analysis Date: 9/18/2014 04:00 PM		
Client ID: GB5-BG1		Run ID: WETCHEM_140918K				SeqNo: 2941974		Prep Date: 9/17/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.652 0.49 1.976 0.164 75.3 75-125 1.765 6.6 20

The following samples were analyzed in this batch:

1409667-01A	1409667-02A	1409667-03A
1409667-04A		

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

Client: Olsson Associates
Work Order: 1409667
Project: Chevron Gray B5 Spill 9.11.14

QC BATCH REPORT

Batch ID: **R148386** Instrument ID **MOIST** Method: **A2540 G**

MBLK		Sample ID: WBLKS-R148386				Units: % of sample		Analysis Date: 9/17/2014 12:47 PM		
Client ID:		Run ID: MOIST_140917B				SeqNo: 2940860		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-R148386				Units: % of sample		Analysis Date: 9/17/2014 12:47 PM		
Client ID:		Run ID: MOIST_140917B				SeqNo: 2940859		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: 1409687-02A DUP				Units: % of sample		Analysis Date: 9/17/2014 12:47 PM		
Client ID:		Run ID: MOIST_140917B				SeqNo: 2940848		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 54.25 0.050 0 0 0 0-0 60.02 10.1 20

DUP		Sample ID: 1409692-04A DUP				Units: % of sample		Analysis Date: 9/17/2014 12:47 PM		
Client ID:		Run ID: MOIST_140917B				SeqNo: 2940853		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 45.34 0.050 0 0 0 0-0 46.03 1.51 20

The following samples were analyzed in this batch:

1409667-05A

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

Client: Olsson Associates
Work Order: 1409667
Project: Chevron Gray B5 Spill 9.11.14

QC BATCH REPORT

Batch ID: **R148483** Instrument ID **MOIST** Method: **A2540 G**

MBLK		Sample ID: WBLKS-R148483				Units: % of sample		Analysis Date: 9/18/2014 10:25 AM		
Client ID:		Run ID: MOIST_140918A				SeqNo: 2943192		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-R148483				Units: % of sample		Analysis Date: 9/18/2014 10:25 AM		
Client ID:		Run ID: MOIST_140918A				SeqNo: 2943191		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: 1409716-03A DUP				Units: % of sample		Analysis Date: 9/18/2014 10:25 AM		
Client ID:		Run ID: MOIST_140918A				SeqNo: 2943156		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 38.44 0.050 0 0 0 0-0 39.21 1.98 20

DUP		Sample ID: 1409718-01A DUP				Units: % of sample		Analysis Date: 9/18/2014 10:25 AM		
Client ID:		Run ID: MOIST_140918A				SeqNo: 2943168		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 40.32 0.050 0 0 0 0-0 40.35 0.0744 20

The following samples were analyzed in this batch:

1409667-01A	1409667-02A	1409667-03A
1409667-04A		

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



Chain of Custody Form

Page 1 of 1

COC ID: 123456

- | | | |
|--|--|--|
| <input type="checkbox"/> Cincinnati, OH
+1 513 733 5336 | <input checked="" type="checkbox"/> Holland, MI
+1 616 399 6070 | <input type="checkbox"/> Salt Lake City, UT
+1 801 266 7700 |
| <input type="checkbox"/> Everett, WA
+1 425 356 2600 | <input type="checkbox"/> Houston, TX
+1 281 530 5656 | <input type="checkbox"/> Spring City, PA
+1 610 948 4903 |
| <input type="checkbox"/> Fort Collins, CO
+1 970 490 1511 | <input type="checkbox"/> Middletown, PA
+1 717 944 5541 | <input type="checkbox"/> York, PA
+1 717 505 5280 |

Customer Information						Project Information							Parameter/Method Request for Analysis									
Purchase Order		Project Name	Chevron Gray B5 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														
Sand 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														
City/State/Zip	Grand Junction, CO 81506	City/State/Zip	Grand Junction, CO 81506				F	pH														
Phone	970.263.7800	Phone	970.263.7800				G	Metals (See Attached List) CO Table 910														
Fax	970.263.7456	Fax	970.263.7456				H	Arsenic Only														
e-Mail Address	tobransky@olsonassoc.com	e-Mail Address					I															
							J															
No.	Sample Description	Date	Time	Matrix	Pres.	# Boildes	A	B	C	D	E	F	G	H	I	J	Hold					
1	GB5-SS1	09/11/14	1340	Soil	8	2	X	X	X	X	X	X	X									
2	GB5-SS2	09/11/14	1350	Soil	8	2	X	X	X	X	X	X	X									
3	GB5-BG1	09/11/14	1400	Soil	8	2				X	X	X	X									
4	GB5-SS3	09/11/14	1410	Soil	8	2	X	X	X	X	X	X	X									
5	GB5-BG2	09/11/14	1415	Soil	8	1								X								
6																						
7																						
Sampler(s): Please Print & Sign Tim Dobransky			Shipment Method: FedEx			Required Turnaround Time: <input checked="" type="checkbox"/> STD 10 Wk Days <input type="checkbox"/> 5 Wk Days <input type="checkbox"/> 2 Wk Days <input type="checkbox"/> 24 Hour			<input type="checkbox"/> Other _____			Results Due Date:										
Relinquished by:		Date:	Time:	Received by:		Notes: Chevron Pricing Applies - Per Bruce Schlatter																
[Signature]		9/12/14	1600	FED EX																		
Relinquished by:		Date:	Time:	Received by (Laboratory):		Cooler Temp.																
[Signature] FED EX		9/13/14	1045	O. [Signature]		x Level II: Standard QC																
Logged by (Laboratory):		Date:	Time:	Checked by (Laboratory):		Level III: Std QC + Raw Data																
[Signature]		9/15/14	9:40	[Signature]		Level IV: SW846 CLP-Like																
Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4 Degrees C 9-SU35						Other: _____																

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: **13-Sep-14 10:45**

Work Order: **1409667**

Received by: **DS**

Checklist completed by <u>Andrea Gitchell</u>	15-Sep-14	Reviewed by: <u>Ann Preston</u>	16-Sep-14
eSignature	Date	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>3.0 c</u>		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	<u>9/15/2014 9:57:13 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:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

ALS Environmental

Houston, Texas 77099

Phone: 281-530-5656

Client: Oleson

Project: C

Sample ID:

Date:

Time:

Analysis:

BO Prep'd on: 9/12/14

Preparative: Neat

ORIGIN
TIM DOB
OL960N
788 HOR

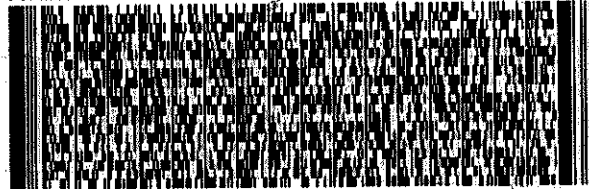
GRAND JUNCTION, CO 81506
UNITED STATES US

BILL SENDER

TO SAMPLE RECEIVING
ALS ENVIRONMENTAL
3352 128TH AVE

HOLLAND MI 49424
(616) 399-6870
PO: 13.3287.100004

NOT POSTAGE NECESSARY IF MAILED IN THE UNITED STATES



FedEx
Express



31412145388612

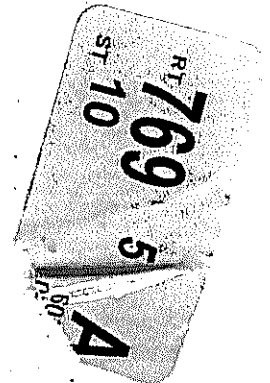
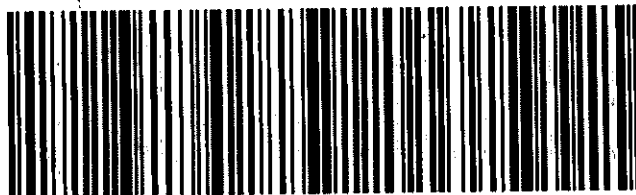
TRK# 5632 6808 6050
0201

SATURDAY 12:00P
PRIORITY OVERNIGHT

X0 HLMA

49424
MI-US GRR

Part # 156148-134 NPIT 06-07





30-Oct-2017

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

Re: **Gray B5 Spill Resampling**

Work Order: **17101504**

Dear Tim,

ALS Environmental received 2 samples on 23-Oct-2017 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 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 8.

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

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: Gray B5 Spill Resampling
Work Order: 17101504

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>
17101504-01	GB5-SS1	Soil		10/19/2017 07:45	10/23/2017 09:00	<input type="checkbox"/>
17101504-02	GB5-SS2	Soil		10/19/2017 07:55	10/23/2017 09:00	<input type="checkbox"/>

Client: Olsson Associates
Project: Gray B5 Spill Resampling
WorkOrder: 17101504

QUALIFIERS, ACRONYMS, UNITS

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

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

Units Reported	Description
mg/L	Milligrams per Liter
mmhos/cm @25°C	Millimhos-Centimeter at 25 Degrees Celcius
none	

ALS Group, USA**Date:** 30-Oct-17

Client: Olsson Associates
Project: Gray B5 Spill Resampling
Sample ID: GB5-SS1
Collection Date: 10/19/2017 07:45 AM

Work Order: 17101504
Lab ID: 17101504-01
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 / 10/27/17		Analyst: RH
Sodium Adsorption Ratio	0.84		0.010	0.010	none	1	10/27/2017
SOLUBLE CATIONS FOR SAR							
			Method: SW6020A		Prep: USDA Method 20B / 10/27/17		Analyst: JF
Calcium	200		0.86	5.0	mg/L	10	10/27/2017 15:51
Magnesium	39		0.068	2.0	mg/L	10	10/27/2017 15:51
Sodium	49		0.34	2.0	mg/L	10	10/27/2017 15:51
ELECTRICAL CONDUCTIVITY (SAR)							
			Method: USDA H60 METHOD 2		Prep: USDA Method 20B / 10/27/17		Analyst: ED
Electrical Conductivity @ Saturation	1.6		0.011	0.10	mmhos/cm @25°	20	10/28/2017 17:10

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

ALS Group, USA**Date:** 30-Oct-17

Client: Olsson Associates
Project: Gray B5 Spill Resampling
Sample ID: GB5-SS2
Collection Date: 10/19/2017 07:55 AM

Work Order: 17101504
Lab ID: 17101504-02
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 / 10/27/17		Analyst: RH
Sodium Adsorption Ratio	9.7		0.010	0.010	none	1	10/27/2017
SOLUBLE CATIONS FOR SAR							
			Method: SW6020A		Prep: USDA Method 20B / 10/27/17		Analyst: JF
Calcium	290		0.86	5.0	mg/L	10	10/27/2017 15:53
Magnesium	76		0.068	2.0	mg/L	10	10/27/2017 15:53
Sodium	720		0.34	2.0	mg/L	10	10/27/2017 15:53
ELECTRICAL CONDUCTIVITY (SAR)							
			Method: USDA H60 METHOD 2		Prep: USDA Method 20B / 10/27/17		Analyst: ED
Electrical Conductivity @ Saturation	6.8		0.011	0.10	mmhos/cm @25°	20	10/28/2017 17:10

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

ALS Group, USA

Date: 30-Oct-17

Client: Olsson Associates
Work Order: 17101504
Project: Gray B5 Spill Resampling

QC BATCH REPORT

Batch ID: **109683** Instrument ID **SAR** Method: **USDA H60 Metho**

DUP	Sample ID: 17101506-01ADUP					Units: none	Analysis Date: 10/27/2017			
Client ID:	Run ID: SAR_171027A				SeqNo: 4729221		Prep Date: 10/27/2017		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	0.3844	0.010	0	0	0		0.3682	4.29	50	

The following samples were analyzed in this batch:

17101504-01A	17101504-02A
--------------	--------------

Batch ID: **109683** Instrument ID **ICPMS3** Method: **SW6020A**

DUP	Sample ID: 17101506-01ADUP					Units: mg/L	Analysis Date: 10/27/2017 04:11 PM			
Client ID:	Run ID: ICPMS3_171027A				SeqNo: 4727270		Prep Date: 10/27/2017		DF: 10	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	194.8	5.0	0	0	0	0-0	197	1.08		
Magnesium	32.48	2.0	0	0	0	0-0	32.48	0.00702		
Sodium	22	2.0	0	0	0	0-0	21.16	3.87		

The following samples were analyzed in this batch:

17101504-01A	17101504-02A
--------------	--------------

Batch ID: **109683** Instrument ID **WETCHEM** Method: **USDA H60 Metho**

DUP	Sample ID: 17101506-01ADUP					Units: mmhos/cm @25°	Analysis Date: 10/28/2017 05:10 PM			
Client ID:	Run ID: WETCHEM_171028E				SeqNo: 4726791		Prep Date: 10/27/2017		DF: 20	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	1.544	0.10	0	0	0		1.542	0.13	50	

The following samples were analyzed in this batch:

17101504-01A	17101504-02A
--------------	--------------

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

☐ Everett, WA
+1 425 356 2600

☐ Fort Collins, CO
+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

17101504

Customer Information		Project Information						Parameter/Method Request for Analysis											
Purchase Order		Project Name	Gray B5 Spill Resampling					A TPH (GRO & DRO)											
Work Order		Project Number	013.3287.400.400004					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											
City/State/Zip	Grand Junction, CO 81506	City/State/Zip	Grand Junction, CO 81506					F pH											
Phone	970.263.7800	Phone	970.263.7800					G Metals (See Attached List) CO Table 910											
Fax	970.263.7456	Fax	970.263.7456					H Arsenic Only											
e-Mail Address	tdobransky@olssonassociates.com	e-Mail Address	tdobransky@olssonassociates.com					I											
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold		
1	GB5-SS1	10/19/17	745	Soil	8	1				X	X								
2	GB5-SS2	10/19/17	755	Soil	8	1				X	X								
3																			
4																			
5																			
6																			
Sampler(s): Please Print & Sign Tim Dobransky		Shipment Method: FedEx		Required Turnaround Time: <input checked="" 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: Chevron Pricing Applies - Per Bruce Schlatter												
Relinquished by:		Date:	Time:	Received by:			QC Package: (Check Box Below)												
		10-27-17	0900				<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:												

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: **23-Oct-17 09:00**

Work Order: **17101504**

Received by: **NCF**

Checklist completed by Nicole Fredericks
eSignature

23-Oct-17
Date

Reviewed by: Chad Whelton
eSignature

24-Oct-17
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>5.2/5.2</u>		<u>SR2</u>
Cooler(s)/Kit(s):	<u></u>		
Date/Time sample(s) sent to storage:	<u>10/23/2017 11:45:18 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 checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	N/A <input type="checkbox"/>
pH adjusted by:	<u>-</u>		

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:



09-Aug-2018

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

Re: **Gray B5 Spill Resampling**

Work Order: **18071596**

Dear Tim,

ALS Environmental received 1 sample on 25-Jul-2018 03:00 PM 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 7.

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 998501

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

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RIGHT SOLUTIONS RIGHT PARTNER

Client: Olsson Associates
Project: Gray B5 Spill Resampling
Work Order: 18071596

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>
18071596-01	GB5-SS2	Soil		7/20/2018 11:05	7/25/2018 15:00	<input type="checkbox"/>

Client: Olsson Associates
Project: Gray B5 Spill Resampling
WorkOrder: 18071596

QUALIFIERS, ACRONYMS, UNITS

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
**	Estimated Value
a	Analyte is non-accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
Hr	BOD/CBOD - Sample was reset outside Hold Time, value should be considered estimated.
J	Analyte is present at an estimated concentration between the MDL and Report Limit
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>
mmhos/cm @25°C	Millimhos-Centimeter at 25 Degrees Celcius

ALS Group, USA

Date: 09-Aug-18

Client: Olsson Associates
Project: Gray B5 Spill Resampling
Sample ID: GB5-SS2
Collection Date: 7/20/2018 11:05 AM

Work Order: 18071596
Lab ID: 18071596-01
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 / 7/31/18	Analyst: JB
Electrical Conductivity @ Saturation	1.2		0.011	0.10	mmhos/cm @25°	20	8/6/2018 13:00

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

Client: Olsson Associates

Work Order: 18071596

Project: Gray B5 Spill Resampling

QC BATCH REPORT

Batch ID: 122101

Instrument ID WETCHEM

Method: USDA H60 Metho

DUP		Sample ID: 18071597-03A DUP				Units: mmhos/cm @25°		Analysis Date: 8/6/2018 01:00 PM		
Client ID:		Run ID: WETCHEM_180806C				SeqNo: 5186405		Prep Date: 7/31/2018		DF: 20
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	1.936	0.10	0	0	0		2.03	4.74	50	

The following samples were analyzed in this batch:

18071596-01A



Environmental

Chain of Custody Form

Page 1 of 1

COC ID: 123456

☐ Cincinnati, OH
+1 513 733 5336

☐ Everett, WA
+1 425 356 2600

☐ Fort Collins, CO
+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 #: 18071596																
Customer Information		Project Information																
Purchase Order	Project Name: Gray B5 Spill Resampling	Parameter/Method Request for Analysis																
Work Order	Project Number: 013.3287.400.400004	A TPH (GRO & DRO)																
Company Name: Olsson Associates	Bill To Company: Olsson Associates	B BTEX																
Send Report To: Tim Dobransky	Invoice Attn: Tim Dobransky	C PAH (See Attached List) CO Table 910																
Address: 760 Horizon Drive, Ste. 102	Address: 760 Horizon Drive, Ste. 102	D Electrical Conductivity																
City/State/Zip: Grand Junction, CO 81506	City/State/Zip: Grand Junction, CO 81506	E Sodium Adsorption Ratio																
Phone: 970.263.7800	Phone: 970.263.7800	F pH																
Fax: 970.263.7456	Fax: 970.263.7456	G Metals (See Attached List) CO Table 910																
e-Mail Address: tdobransky@entradainc.com	e-Mail Address: dmack@olssonassociates.com	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	GB5-SS2	07/20/18	1105	Soil	8	1				X								
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
Sampler(s): Please Print & Sign Tim Dobransky		Shipment Method: FedEx		Required Turnaround Time: <input checked="" type="checkbox"/> STD 10 Wk <input type="checkbox"/> 5 Wk Days <input type="checkbox"/> 2 Wk Days <input type="checkbox"/> 24 Hour		Results Due Date:												
Relinquished to:		Date: 7/23/18	Time: 1545	Received by:		Notes: Chevron Pricing Applies - Per Bruce Schlatter												
Relinquished by:		Date: 7/25/18	Time: 1500	Received by (Laboratory):		Cooler Temp. 5.0°C												
Logged by (Laboratory):		Date: 7/25/18	Time: 1630	Checked by (Laboratory):		QC Package: (Check Box Below)												
Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHCO3 7-Other 8-4 degree						<input checked="" type="checkbox"/> Level II: Standard QC <input type="checkbox"/> Level III: Std QC + Raw <input type="checkbox"/> Level IV: SW846 CLP- Other:												

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: **25-Jul-18 15:00**

Work Order: **18071596**

Received by: **DS**

Checklist completed by Diane Shaw
eSignature

25-Jul-18
Date

Reviewed by: Chad Whelton
eSignature

26-Jul-18
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>5.0/5.0 c</u>		<u>SR2</u>
Cooler(s)/Kit(s):	<u></u>		
Date/Time sample(s) sent to storage:	<u>7/25/2018 4:37:43 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: