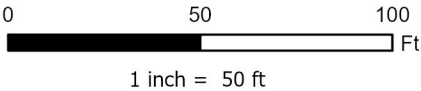




Legend

- Soil Sample Location
- Spill Origin
- ▨ Spill Area



Project No: 018-065	Fee 90X Spill Chevron USA, Inc. Rio Blanco County, Colorado NESE / NWSE Section 28 T2S R102W	 ENTRADA CONSULTING GROUP	330 Grand Avenue, Unit C Grand Junction, CO 81501 970-549-1015	Figure
Map By: NDB				1
Date: 3/24/2021				

Table 1
Fee 90X Spill
Soil Data Summary

SAMPLE SUMMARY	
Location Description	Fee 90X Spill
Sample Type	Soil

LABORATORY DATA SUMMARY					
Sample ID	Fee 90X	FEE90X-SS1	FEE90X-BG2	COGCC TABLE 910-1 CONCENTRATION LEVELS	UNITS
Depth	5.5'	0-6"	0-6"		
Sample Date	10/7/2019	10/17/2019	10/17/2019		
Analytical Parameters					
TPH					
TPH Gasoline Range Organics	<2.4	<2.0	NT	500	mg/kg
TPH Diesel Range Organics	130	23	NT		
BTEX					
Benzene	<0.0058	<0.0049	NT	0.17	mg/kg
Toluene	<0.0092	<0.028 J	NT	85	mg/kg
Ethylbenzene	<0.0071	0.0072 J	NT	100	mg/kg
Total Xylene	<0.045	0.077 J	NT	175	mg/kg
Metals					
Arsenic	7.9	5.7	7.1	0.39	mg/kg
Barium	310	190	280	15,000	mg/kg
Cadmium	0.33 J	0.17	11	70	mg/kg
Chromium	12	11 B	0.3	NA	mg/kg
Copper	16	9.6	12 B	3,100	mg/kg
Lead	22	12	14	400	mg/kg
Mercury	0.027	0.015 J	0.022	23	mg/kg
Nickel	20	14 B	20 B	1,600	mg/kg
Selenium	1.8	0.96	0.94	390	mg/kg
Silver	<0.14	<0.052	0.069 J	390	mg/kg
Zinc	88	46 B	71 B	23,000	mg/kg
SAR Metals Analysis					
Calcium	1200	1200	70	NA	mg/L
Magnesium	830	120	5.6	NA	mg/L
Sodium	8200	580	51	NA	mg/L
Sodium Adsorption Ratio	44	4.2	1.6	<12	ratio
Polynuclear Aromatic Hydrocarbons					
Acenaphthene	<0.0039	<0.0025	NT	1,000	mg/kg
Anthracene	<0.0067	<0.0043	NT	1,000	mg/kg
Benzo(a)anthracene	<0.0082	<0.0052	NT	0.22	mg/kg
Benzo(a)pyrene	<0.0055	<0.0035	NT	0.022	mg/kg
Benzo(b)fluoranthene	<0.0048	<0.0030	NT	0.22	mg/kg
Benzo(k)fluoranthene	<0.0059	<0.0037	NT	2.2	mg/kg
Chrysene	<0.0041	<0.0026	NT	22	mg/kg
Dibenzo(a,h)anthracene	<0.0047	<0.0030	NT	0.022	mg/kg
Fluoranthene	<0.0037	<0.0023	NT	1,000	mg/kg
Fluorene	<0.0066	<0.0042	NT	1,000	mg/kg
Indeno(1,2,3-cd)pyrene	<0.0072	<0.0046	NT	0.22	mg/kg
Napthalene	<0.0087	<0.0055	NT	23	mg/kg
Pyrene	<0.0033	<0.0021	NT	1,000	mg/kg
General Chemistry					
Chromium, Hexavalent	NT	<0.87	<0.88	23	mg/kg
Chromium, Trivalent	NT	11	12	120,000	mg/kg
Specific Conductivity	52	10	0.69	<4 or 2 x the background	mmhos/cm
pH	8.06	7.73	7.44	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



22-Oct-2019

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

Re: **FEE 90 X Spill**

Work Order: **19101046**

Dear Tim,

ALS Environmental received 1 sample on 12-Oct-2019 10:00 AM for the analyses presented in the following report.

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

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 20.

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

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

Sincerely,

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

Electronically approved by: Chad Whelton

Chad Whelton
Project Manager

Report of Laboratory Analysis

Certificate No: MN 026-999-449

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

Environmental 

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: Entrada Consulting Group
Project: FEE 90 X Spill
Work Order: 19101046

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>
19101046-01	Fee 90X (5.5 ft bgs)	Soil		10/7/2019 12:20	10/12/2019 10:00	<input type="checkbox"/>

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

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

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

s.u. Standard Units

ALS Group, USA

Date: 22-Oct-19

Client: Entrada Consulting Group
Project: FEE 90 X Spill
Sample ID: Fee 90X (5.5 ft bgs)
Collection Date: 10/7/2019 12:20 PM

Work Order: 19101046
Lab ID: 19101046-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015M		Prep: SW3550 / 10/15/19		Analyst: KB
DRO (C10-C28)	130		3.0	5.2	mg/Kg-dry	1	10/18/2019 02:00
Surr: 4-Terphenyl-d14	84.2			33-111	%REC	1	10/18/2019 02:00
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW5035 / 10/14/19		Analyst: KB
GRO (C6-C10)	U		2.4	5.6	mg/Kg	1	10/15/2019 06:29
Surr: Toluene-d8	84.6			71-123	%REC	1	10/15/2019 06:29
MERCURY BY CVAA							
			Method: SW7471B		Prep: SW7471 / 10/16/19		Analyst: RSB
Mercury	0.027		0.0018	0.018	mg/Kg-dry	1	10/16/2019 13:25
METALS BY ICP-MS							
			Method: SW6020A		Prep: SW3050B / 10/16/19		Analyst: STP
Arsenic	7.9		0.13	1.1	mg/Kg-dry	1	10/17/2019 02:49
Barium	310		0.97	1.1	mg/Kg-dry	1	10/17/2019 02:49
Cadmium	0.33	J	0.063	0.42	mg/Kg-dry	1	10/17/2019 02:49
Chromium	12		0.46	1.1	mg/Kg-dry	1	10/17/2019 02:49
Copper	16		1.1	1.1	mg/Kg-dry	1	10/17/2019 02:49
Lead	22		0.51	1.1	mg/Kg-dry	1	10/17/2019 02:49
Nickel	20		0.55	1.1	mg/Kg-dry	1	10/17/2019 02:49
Selenium	1.8		0.97	1.1	mg/Kg-dry	1	10/17/2019 02:49
Silver	U		0.14	1.1	mg/Kg-dry	1	10/17/2019 02:49
Zinc	88		2.1	2.1	mg/Kg-dry	1	10/17/2019 02:49
SOLUBLE CATIONS FOR SAR							
			Method: SW6020A		Prep: USDA Method 20B / 10/18/19		Analyst: STP
Calcium	1,200		2.5	5.0	mg/L	10	10/18/2019 13:34
Magnesium	830		0.50	2.0	mg/L	10	10/18/2019 13:34
Sodium	8,200		4.5	20	mg/L	100	10/18/2019 14:49
SODIUM ADSORPTION RATIO							
			Method: USDA H60 METHOD 2		Prep: USDA Method 20B / 10/18/19		Analyst: STP
Sodium Adsorption Ratio	44		0.010	0.010	none	1	10/18/2019
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS)							
			Method: SW846 8270D		Prep: SW3546 / 10/16/19		Analyst: EEW
Acenaphthene	U		0.0039	0.020	mg/Kg-dry	1	10/17/2019 15:40
Anthracene	U		0.0067	0.020	mg/Kg-dry	1	10/17/2019 15:40
Benzo(a)anthracene	U		0.0082	0.020	mg/Kg-dry	1	10/17/2019 15:40
Benzo(a)pyrene	U		0.0055	0.020	mg/Kg-dry	1	10/17/2019 15:40
Benzo(b)fluoranthene	U		0.0048	0.020	mg/Kg-dry	1	10/17/2019 15:40
Benzo(k)fluoranthene	U		0.0059	0.020	mg/Kg-dry	1	10/17/2019 15:40
Chrysene	U		0.0041	0.020	mg/Kg-dry	1	10/17/2019 15:40
Dibenzo(a,h)anthracene	U		0.0047	0.020	mg/Kg-dry	1	10/17/2019 15:40
Fluoranthene	U		0.0037	0.020	mg/Kg-dry	1	10/17/2019 15:40

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

ALS Group, USA

Date: 22-Oct-19

Client: Entrada Consulting Group
Project: FEE 90 X Spill
Sample ID: Fee 90X (5.5 ft bgs)
Collection Date: 10/7/2019 12:20 PM

Work Order: 19101046
Lab ID: 19101046-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	U		0.0066	0.020	mg/Kg-dry	1	10/17/2019 15:40
Indeno(1,2,3-cd)pyrene	U		0.0072	0.020	mg/Kg-dry	1	10/17/2019 15:40
Naphthalene	U		0.0087	0.020	mg/Kg-dry	1	10/17/2019 15:40
Pyrene	U		0.0033	0.020	mg/Kg-dry	1	10/17/2019 15:40
Surr: 2-Fluorobiphenyl	88.1			20-140	%REC	1	10/17/2019 15:40
Surr: 4-Terphenyl-d14	70.6			22-172	%REC	1	10/17/2019 15:40
Surr: Nitrobenzene-d5	83.2			28-140	%REC	1	10/17/2019 15:40
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C		Prep: SW5035 / 10/14/19		Analyst: WH
Benzene	U		0.0058	0.034	mg/Kg-dry	1	10/17/2019 12:31
Ethylbenzene	U		0.0071	0.034	mg/Kg-dry	1	10/17/2019 12:31
m,p-Xylene	U		0.045	0.067	mg/Kg-dry	1	10/17/2019 12:31
o-Xylene	U		0.013	0.034	mg/Kg-dry	1	10/17/2019 12:31
Toluene	U		0.0092	0.034	mg/Kg-dry	1	10/17/2019 12:31
Xylenes, Total	U		0.045	0.10	mg/Kg-dry	1	10/17/2019 12:31
Surr: 1,2-Dichloroethane-d4	99.1			70-130	%REC	1	10/17/2019 12:31
Surr: 4-Bromofluorobenzene	104			70-130	%REC	1	10/17/2019 12:31
Surr: Dibromofluoromethane	87.4			70-130	%REC	1	10/17/2019 12:31
Surr: Toluene-d8	96.7			70-130	%REC	1	10/17/2019 12:31
ELECTRICAL CONDUCTIVITY (SAR)			Method: USDA H60 METHOD 2		Prep: USDA Method 20B / 10/18/19		Analyst: QTN
Electrical Conductivity @ Saturation	52		0.017	0.15	mmhos/cm @25°	30	10/18/2019 09:52
MOISTURE			Method: SW3550C				Analyst: MMO
Moisture	4.9		0.10	0.10	% of sample	1	10/15/2019 09:43
PH			Method: SW9045D		Prep: EXTRACT / 10/14/19		Analyst: ERW
pH	8.06		0.10	0.100	s.u.	1	10/14/2019 14:45
Temperature	21.4		0.10	0.100	°C	1	10/14/2019 14:45

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

Client: Entrada Consulting Group
Work Order: 19101046
Project: FEE 90 X Spill

QC BATCH REPORT

Batch ID: **143991** Instrument ID **GC8** Method: **SW8015M**

MBLK		Sample ID: DBLKS1-143991-143991				Units: mg/Kg		Analysis Date: 10/17/2019 10:36 P		
Client ID:		Run ID: GC8_191017A				SeqNo: 5998813		Prep Date: 10/15/2019		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28)	U	5.0								
<i>Surr: 4-Terphenyl-d14</i>	2.444	0	3.33	0	73.4	33-111	0			

LCS		Sample ID: DLCSS1-143991-143991				Units: mg/Kg		Analysis Date: 10/17/2019 11:06 P		
Client ID:		Run ID: GC8_191017A				SeqNo: 5998814		Prep Date: 10/15/2019		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28)	325.3	5.0	333	0	97.7	58-111	0			
<i>Surr: 4-Terphenyl-d14</i>	2.253	0	3.33	0	67.6	33-111	0			

MS		Sample ID: 19101071-01A MS				Units: mg/Kg		Analysis Date: 10/18/2019 12:04 P		
Client ID:		Run ID: GC8_191017A				SeqNo: 5998842		Prep Date: 10/15/2019		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28)	328.9	5.0	331.3	2.989	98.4	58-111	0			
<i>Surr: 4-Terphenyl-d14</i>	2.037	0	3.313	0	61.5	33-111	0			

MSD		Sample ID: 19101071-01A MSD				Units: mg/Kg		Analysis Date: 10/18/2019 12:33 P		
Client ID:		Run ID: GC8_191017A				SeqNo: 5998843		Prep Date: 10/15/2019		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28)	333.6	4.9	325	2.989	102	58-111	328.9	1.42	30	
<i>Surr: 4-Terphenyl-d14</i>	2.15	0	3.25	0	66.1	33-111	2.037	5.41	30	

The following samples were analyzed in this batch:

19101046-01A

Client: Entrada Consulting Group
Work Order: 19101046
Project: FEE 90 X Spill

QC BATCH REPORT

Batch ID: **143954** Instrument ID **GC9** Method: **SW8015D**

MBLK		Sample ID: MBLK-143954-143954				Units: µg/Kg-dry		Analysis Date: 10/14/2019 09:38 P		
Client ID:		Run ID: GC9_191014B				SeqNo: 5989288		Prep Date: 10/14/2019		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

GRO (C6-C10)	U	5,000								
Surr: Toluene-d8	4359	0	5000	0	87.2	71-123	0			

LCS		Sample ID: LCS-143954-143954				Units: µg/Kg-dry		Analysis Date: 10/14/2019 09:08 P		
Client ID:		Run ID: GC9_191014B				SeqNo: 5989287		Prep Date: 10/14/2019		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

GRO (C6-C10)	492000	5,000	500000	0	98.4	71-123	0			
Surr: Toluene-d8	5489	0	5000	0	110	71-123	0			

MS		Sample ID: 19101042-01A MS				Units: µg/Kg-dry		Analysis Date: 10/15/2019 06:58 A		
Client ID:		Run ID: GC9_191014B				SeqNo: 5989304		Prep Date: 10/14/2019		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

GRO (C6-C10)	726200	6,000	601900	0	121	71-123	0			
Surr: Toluene-d8	7896	0	6019	0	131	71-123	0			S

MSD		Sample ID: 19101042-01A MSD				Units: µg/Kg-dry		Analysis Date: 10/15/2019 07:27 A		
Client ID:		Run ID: GC9_191014B				SeqNo: 5989305		Prep Date: 10/14/2019		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

GRO (C6-C10)	653300	5,700	565600	0	116	71-123	726200	10.6	30	
Surr: Toluene-d8	6572	0	5656	0	116	71-123	7896	18.3	30	

The following samples were analyzed in this batch:

19101046-01A

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

Client: Entrada Consulting Group
 Work Order: 19101046
 Project: FEE 90 X Spill

QC BATCH REPORT

Batch ID: **144063** Instrument ID **HG4** Method: **SW7471B**

MBLK		Sample ID: MBLK-144063-144063					Units: mg/Kg		Analysis Date: 10/16/2019 11:31 A		
Client ID:			Run ID: HG4_191016A				SeqNo: 5992173		Prep Date: 10/16/2019		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Mercury U 0.020

LCS		Sample ID: LCS-144063-144063					Units: mg/Kg		Analysis Date: 10/16/2019 11:33 A		
Client ID:			Run ID: HG4_191016A			SeqNo: 5992174		Prep Date: 10/16/2019		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Mercury 0.1798 0.020 0.1665 0 108 80-120 0

MS		Sample ID: 19100811-12BMS					Units: mg/Kg		Analysis Date: 10/16/2019 11:46 A		
Client ID:			Run ID: HG4_191016A			SeqNo: 5992180		Prep Date: 10/16/2019		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Mercury 0.1686 0.019 0.1561 0.01405 99 75-125 0

MSD		Sample ID: 19100811-12BMSD					Units: mg/Kg		Analysis Date: 10/16/2019 11:48 A	
Client ID:			Run ID: HG4_191016A			SeqNo: 5992181		Prep Date: 10/16/2019		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1734 0.018 0.1539 0.01405 104 75-125 0.1686 2.82 35

The following samples were analyzed in this batch:

19101046-01A

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

Client: Entrada Consulting Group
Work Order: 19101046
Project: FEE 90 X Spill

QC BATCH REPORT

Batch ID: **144095** Instrument ID **ICPMS4** Method: **SW6020A**

MBLK				Sample ID: MBLK-144095-144095				Units: mg/Kg		Analysis Date: 10/17/2019 02:10 A	
Client ID:			Run ID: ICPMS4_191016B			SeqNo: 5994148		Prep Date: 10/16/2019		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Arsenic	U	0.25									
Barium	U	0.25									
Cadmium	U	0.10									
Chromium	U	0.25									
Copper	U	0.25									
Lead	U	0.25									
Nickel	U	0.25									
Selenium	U	0.25									
Silver	U	0.25									
Zinc	U	0.50									

LCS					Sample ID: LCS-144095-144095			Units: mg/Kg		Analysis Date: 10/17/2019 02:43 A	
Client ID:			Run ID: ICPMS4_191016B			SeqNo: 5994168		Prep Date: 10/16/2019		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Arsenic	5.209	0.25	5	0	104	80-120	0				
Barium	5.441	0.25	5	0	109	80-120	0				
Cadmium	5.331	0.10	5	0	107	80-120	0				
Chromium	5.283	0.25	5	0	106	80-120	0				
Copper	5.275	0.25	5	0	106	80-120	0				
Lead	5.422	0.25	5	0	108	80-120	0				
Nickel	5.203	0.25	5	0	104	80-120	0				
Selenium	5.274	0.25	5	0	105	80-120	0				
Silver	5.275	0.25	5	0	106	80-120	0				
Zinc	5.486	0.50	5	0	110	80-120	0				

MS				Sample ID: 19101094-02C MS			Units: mg/Kg		Analysis Date: 10/17/2019 02:54 A		
Client ID:			Run ID: ICPMS4_191016B			SeqNo: 5994174		Prep Date: 10/16/2019		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Arsenic	16.45	0.37	7.463	9.489	93.3	75-125	0				
Barium	129.5	0.37	7.463	114.2	205	75-125	0			SO	
Cadmium	6.985	0.15	7.463	0.1805	91.2	75-125	0				
Chromium	17.4	0.37	7.463	9.354	108	75-125	0				
Copper	17.77	0.37	7.463	12.02	77.1	75-125	0				
Lead	20.99	0.37	7.463	12.28	117	75-125	0				
Selenium	7.209	0.37	7.463	0.375	91.6	75-125	0				
Silver	6.844	0.37	7.463	0.03154	91.3	75-125	0				
Zinc	60.83	0.75	7.463	49.56	151	75-125	0			SO	

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

Client: Entrada Consulting Group
Work Order: 19101046
Project: FEE 90 X Spill

QC BATCH REPORT

Batch ID: **144095** Instrument ID **ICPMS4** Method: **SW6020A**

MS				Sample ID: 19101094-02C MS			Units: mg/Kg		Analysis Date: 10/17/2019 05:13 P		
Client ID:			Run ID: ICPMS3_191017B			SeqNo: 5997063		Prep Date: 10/16/2019		DF: 10	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Nickel	29.13	3.7	7.463	19.6	128	75-125	0			S	

MSD					Sample ID: 19101094-02C MSD		Units: mg/Kg		Analysis Date: 10/17/2019 02:56 A		
Client ID:			Run ID: ICPMS4_191016B			SeqNo: 5994175		Prep Date: 10/16/2019		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Arsenic	16.78	0.37	7.474	9.489	97.5	75-125	16.45	1.95	20		
Barium	129.9	0.37	7.474	114.2	210	75-125	129.5	0.309	20	SO	
Cadmium	6.893	0.15	7.474	0.1805	89.8	75-125	6.985	1.33	20		
Chromium	17.43	0.37	7.474	9.354	108	75-125	17.4	0.167	20		
Copper	17.85	0.37	7.474	12.02	78	75-125	17.77	0.454	20		
Lead	21.1	0.37	7.474	12.28	118	75-125	20.99	0.54	20		
Selenium	7.198	0.37	7.474	0.375	91.3	75-125	7.209	0.145	20		
Silver	6.809	0.37	7.474	0.03154	90.7	75-125	6.844	0.504	20		
Zinc	60.94	0.75	7.474	49.56	152	75-125	60.83	0.19	20	SO	

MSD				Sample ID: 19101094-02C MSD				Units: mg/Kg			Analysis Date: 10/17/2019 05:15 P			
Client ID:				Run ID: ICPMS3_191017B				SeqNo: 5997064			Prep Date: 10/16/2019		DF: 10	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual			
Nickel		29.28	3.7	7.474	19.6	130	75-125	29.13	0.526	20	S			

The following samples were analyzed in this batch:

19101046-01A

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

Client: Entrada Consulting Group
Work Order: 19101046
Project: FEE 90 X Spill

QC BATCH REPORT

Batch ID: **144205** Instrument ID **ICPMS4** Method: **SW6020A**

DUP				Sample ID: 19101046-01ADUP				Units: mg/L			Analysis Date: 10/18/2019 01:35 P			
Client ID: Fee 90X (5.5 ft bgs)				Run ID: ICPMS4_191018A				SeqNo: 5998454			Prep Date: 10/18/2019		DF: 10	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				
Calcium	1221	5.0	0	0	0	0-0	1250	2.33						
Magnesium	802.9	2.0	0	0	0	0-0	832.3	3.6						

DUP				Sample ID: 19101046-01ADUP				Units: mg/L		Analysis Date: 10/18/2019 02:51 P			
Client ID: Fee 90X (5.5 ft bgs)				Run ID: ICPMS4_191018A				SeqNo: 5998782		Prep Date: 10/18/2019		DF: 100	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual			
Sodium	7972	20	0	0	0	0-0	8242	3.33					

The following samples were analyzed in this batch:

19101046-01A

Batch ID: **144205** Instrument ID **SAR** Method: **USDA H60 Metho**

DUP				Sample ID: 19101046-01ADUP				Units: none		Analysis Date: 10/18/2019			
Client ID: Fee 90X (5.5 ft bgs)				Run ID: SAR_191018A				SeqNo: 5998848		Prep Date: 10/18/2019		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual			
Sodium Adsorption Ratio	43.52	0.010	0	0	0		44.32	1.83	50				

The following samples were analyzed in this batch:

19101046-01A

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

Client: Entrada Consulting Group
Work Order: 19101046
Project: FEE 90 X Spill

QC BATCH REPORT

Batch ID: **144070** Instrument ID **SVMS6** Method: **SW846 8270D**

MBLK		Sample ID: SBLKS1-144070-144070				Units: µg/Kg		Analysis Date: 10/18/2019 10:28 A		
Client ID:		Run ID: SVMS6_191018A				SeqNo: 5997881		Prep Date: 10/16/2019		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	U	4.2								
Anthracene	U	4.2								
Benzo(a)anthracene	U	4.2								
Benzo(a)pyrene	U	4.2								
Benzo(b)fluoranthene	U	4.2								
Benzo(k)fluoranthene	U	4.2								
Chrysene	U	4.2								
Dibenzo(a,h)anthracene	U	4.2								
Fluoranthene	U	4.2								
Fluorene	U	4.2								
Indeno(1,2,3-cd)pyrene	U	4.2								
Naphthalene	U	4.2								
Pyrene	U	4.2								
Surr: 2-Fluorobiphenyl	2841	0	3333	0	85.2	20-140	0			
Surr: 4-Terphenyl-d14	2142	0	3333	0	64.3	22-172	0			
Surr: Nitrobenzene-d5	2516	0	3333	0	75.5	28-140	0			

LCS		Sample ID: SLCSS1-144070-144070				Units: µg/Kg		Analysis Date: 10/17/2019 01:21 P		
Client ID:		Run ID: SVMS6_191017A				SeqNo: 5997883		Prep Date: 10/16/2019		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	980	4.2	1333	0	73.5	40-140	0			
Anthracene	1047	4.2	1333	0	78.5	40-140	0			
Benzo(a)anthracene	1118	4.2	1333	0	83.8	40-140	0			
Benzo(a)pyrene	1100	4.2	1333	0	82.5	40-140	0			
Benzo(b)fluoranthene	1062	4.2	1333	0	79.7	40-140	0			
Benzo(k)fluoranthene	1048	4.2	1333	0	78.6	40-140	0			
Chrysene	999	4.2	1333	0	74.9	40-140	0			
Dibenzo(a,h)anthracene	1230	4.2	1333	0	92.3	40-140	0			
Fluoranthene	922.7	4.2	1333	0	69.2	40-140	0			
Fluorene	1071	4.2	1333	0	80.3	40-140	0			
Indeno(1,2,3-cd)pyrene	1338	4.2	1333	0	100	40-140	0			
Naphthalene	1006	4.2	1333	0	75.4	40-140	0			
Pyrene	1082	4.2	1333	0	81.1	40-140	0			
Surr: 2-Fluorobiphenyl	2572	0	3333	0	77.2	20-140	0			
Surr: 4-Terphenyl-d14	2064	0	3333	0	61.9	22-172	0			
Surr: Nitrobenzene-d5	2085	0	3333	0	62.6	28-140	0			

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

Client: Entrada Consulting Group
 Work Order: 19101046
 Project: FEE 90 X Spill

QC BATCH REPORT

Batch ID: 144070 Instrument ID SVMS6 Method: SW846 8270D

MS				Sample ID: 19100985-03B MS		Units: µg/Kg		Analysis Date: 10/17/2019 01:52 P		
Client ID:			Run ID: SVMS6_191017A		SeqNo: 5997884		Prep Date: 10/16/2019		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1102	3.9	1260	0	87.4	40-140	0			
Anthracene	1160	3.9	1260	5.416	91.6	40-140	0			
Benzo(a)anthracene	1252	3.9	1260	12.4	98.4	40-140	0			
Benzo(a)pyrene	1232	3.9	1260	9.934	97	40-140	0			
Benzo(b)fluoranthene	1205	3.9	1260	14.71	94.5	40-140	0			
Benzo(k)fluoranthene	1191	3.9	1260	13.88	93.4	40-140	0			
Chrysene	1109	3.9	1260	20.27	86.4	40-140	0			
Dibenzo(a,h)anthracene	1322	3.9	1260	0	105	40-140	0			
Fluoranthene	1052	3.9	1260	11.76	82.6	40-140	0			
Fluorene	1182	3.9	1260	0	93.8	40-140	0			
Indeno(1,2,3-cd)pyrene	1309	3.9	1260	0	104	40-140	0			
Naphthalene	1145	3.9	1260	0	90.8	40-140	0			
Pyrene	1271	3.9	1260	14.74	99.7	40-140	0			
Surr: 2-Fluorobiphenyl	3010	0	3151	0	95.5	20-140	0			
Surr: 4-Terphenyl-d14	2345	0	3151	0	74.4	22-172	0			
Surr: Nitrobenzene-d5	2630	0	3151	0	83.5	28-140	0			

MSD				Sample ID: 19100985-03B MSD				Units: µg/Kg		Analysis Date: 10/17/2019 02:07 P	
Client ID:			Run ID: SVMS6_191017A			SeqNo: 5997885		Prep Date: 10/16/2019		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	1141	4.1	1312	0	86.9	40-140	1102	3.49	30		
Anthracene	1172	4.1	1312	5.416	88.9	40-140	1160	1.07	30		
Benzo(a)anthracene	1258	4.1	1312	12.4	94.9	40-140	1252	0.447	30		
Benzo(a)pyrene	1226	4.1	1312	9.934	92.7	40-140	1232	0.52	30		
Benzo(b)fluoranthene	1197	4.1	1312	14.71	90.1	40-140	1205	0.678	30		
Benzo(k)fluoranthene	1199	4.1	1312	13.88	90.3	40-140	1191	0.69	30		
Chrysene	1132	4.1	1312	20.27	84.8	40-140	1109	2.1	30		
Dibenzo(a,h)anthracene	1259	4.1	1312	0	95.9	40-140	1322	4.89	30		
Fluoranthene	1091	4.1	1312	11.76	82.3	40-140	1052	3.64	30		
Fluorene	1207	4.1	1312	0	92	40-140	1182	2.09	30		
Indeno(1,2,3-cd)pyrene	1277	4.1	1312	0	97.3	40-140	1309	2.47	30		
Naphthalene	1177	4.1	1312	0	89.7	40-140	1145	2.83	30		
Pyrene	1225	4.1	1312	14.74	92.2	40-140	1271	3.73	30		
Surr: 2-Fluorobiphenyl	3100	0	3281	0	94.5	20-140	3010	2.94	0		
Surr: 4-Terphenyl-d14	2251	0	3281	0	68.6	22-172	2345	4.1	0		
Surr: Nitrobenzene-d5	2713	0	3281	0	82.7	28-140	2630	3.13	0		

The following samples were analyzed in this batch:

19101046-01A

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

Client: Entrada Consulting Group
Work Order: 19101046
Project: FEE 90 X Spill

QC BATCH REPORT

Batch ID: **143953** Instrument ID **VMS8** Method: **SW8260C**

MBLK		Sample ID: MBLK-143953-143953				Units: µg/Kg-dry		Analysis Date: 10/14/2019 09:59 P		
Client ID:		Run ID: VMS8_191014B				SeqNo: 5989144		Prep Date: 10/14/2019		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	U	30								
Ethylbenzene	U	30								
m,p-Xylene	U	60								
o-Xylene	U	30								
Toluene	U	30								
Xylenes, Total	U	90								
Surr: 1,2-Dichloroethane-d4	954.5	0	1000	0	95.4	70-130	0			
Surr: 4-Bromofluorobenzene	1067	0	1000	0	107	70-130	0			
Surr: Dibromofluoromethane	981.5	0	1000	0	98.2	70-130	0			
Surr: Toluene-d8	816	0	1000	0	81.6	70-130	0			

LCS		Sample ID: LCS-143953-143953				Units: µg/Kg-dry		Analysis Date: 10/14/2019 08:51 P		
Client ID:		Run ID: VMS8_191014B				SeqNo: 5989142		Prep Date: 10/14/2019		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1002	30	1000	0	100	75-125	0			
Ethylbenzene	955	30	1000	0	95.5	75-125	0			
m,p-Xylene	2210	60	2000	0	110	80-125	0			
o-Xylene	1125	30	1000	0	112	75-125	0			
Toluene	1050	30	1000	0	105	70-125	0			
Xylenes, Total	3335	90	3000	0	111	75-125	0			
Surr: 1,2-Dichloroethane-d4	974	0	1000	0	97.4	70-130	0			
Surr: 4-Bromofluorobenzene	1121	0	1000	0	112	70-130	0			
Surr: Dibromofluoromethane	1070	0	1000	0	107	70-130	0			
Surr: Toluene-d8	1020	0	1000	0	102	70-130	0			

MS		Sample ID: 19101042-01A MS				Units: µg/Kg-dry		Analysis Date: 10/15/2019 04:31 A		
Client ID:		Run ID: VMS8_191014B				SeqNo: 5989158		Prep Date: 10/14/2019		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1511	36	1204	247.9	105	75-125	0			
Ethylbenzene	1280	36	1204	70.65	100	75-125	0			
m,p-Xylene	2840	72	2408	375.3	102	80-125	0			
o-Xylene	1327	36	1204	85.71	103	75-125	0			
Toluene	1673	36	1204	436.7	103	70-125	0			
Xylenes, Total	4168	110	3611	466	102	75-125	0			
Surr: 1,2-Dichloroethane-d4	1138	0	1204	0	94.6	70-130	0			
Surr: 4-Bromofluorobenzene	1277	0	1204	0	106	70-130	0			
Surr: Dibromofluoromethane	1145	0	1204	0	95.2	70-130	0			
Surr: Toluene-d8	1123	0	1204	0	93.2	70-130	0			

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

Client: Entrada Consulting Group
Work Order: 19101046
Project: FEE 90 X Spill

QC BATCH REPORT

Batch ID: **143953** Instrument ID **VMS8** Method: **SW8260C**

MSD				Sample ID: 19101042-01A MSD			Units: µg/Kg-dry		Analysis Date: 10/15/2019 04:48 A	
Client ID:		Run ID: VMS8_191014B			SeqNo: 5989159		Prep Date: 10/14/2019		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1424	34	1131	247.9	104	75-125	1511	5.98	30	
Ethylbenzene	1224	34	1131	70.65	102	75-125	1280	4.45	30	
m,p-Xylene	2689	68	2262	375.3	102	80-125	2840	5.46	30	
o-Xylene	1249	34	1131	85.71	103	75-125	1327	6.04	30	
Toluene	1551	34	1131	436.7	98.5	70-125	1673	7.59	30	
Xylenes, Total	3939	100	3394	466	102	75-125	4168	5.64	30	
Surr: 1,2-Dichloroethane-d4	1120	0	1131	0	99	70-130	1138	1.57	30	
Surr: 4-Bromofluorobenzene	1156	0	1131	0	102	70-130	1277	9.91	30	
Surr: Dibromofluoromethane	1099	0	1131	0	97.2	70-130	1145	4.14	30	
Surr: Toluene-d8	1063	0	1131	0	94	70-130	1123	5.47	30	

The following samples were analyzed in this batch:

19101046-01A

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

Client: Entrada Consulting Group
Work Order: 19101046
Project: FEE 90 X Spill

QC BATCH REPORT

Batch ID: **143935** Instrument ID **WETCHEM** Method: **SW9045D**

LCS		Sample ID: LCS-143935-143935				Units: s.u.		Analysis Date: 10/14/2019 02:45 P		
Client ID:		Run ID: WETCHEM_191014L				SeqNo: 5986827		Prep Date: 10/14/2019		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH 4.02 0.10 4 0 100 90-110 0

DUP				Sample ID: 19100951-01A DUP				Units: s.u.			Analysis Date: 10/14/2019 02:45 P			
Client ID:				Run ID: WETCHEM_191014L				SeqNo: 5986829			Prep Date: 10/14/2019		DF: 1	
Analyte				Result		PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH 9.43 0.10 0 0 0 0-0 9.5 0.74 20

Temperature 21.4 0.10 0 0 0 21.4 0

DUP				Sample ID: 19101044-01A DUP				Units: s.u.			Analysis Date: 10/14/2019 02:45 P			
Client ID:				Run ID: WETCHEM_191014L				SeqNo: 5986835			Prep Date: 10/14/2019		DF: 1	
Analyte				Result		PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH 7.75 0.10 0 0 0 0-0 7.76 0.129 20

Temperature 21.4 0.10 0 0 0 21.6 0.93

The following samples were analyzed in this batch:

19101046-01A

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

Client: Entrada Consulting Group
Work Order: 19101046
Project: FEE 90 X Spill

QC BATCH REPORT

Batch ID: **R272939** Instrument ID **MOIST** Method: **SW3550C**

MBLK		Sample ID: WBLKS-R272939					Units: % of sample		Analysis Date: 10/15/2019 09:43 A		
Client ID:			Run ID: MOIST_191015A			SeqNo: 5990857		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Moisture U 0.10

LCS		Sample ID: LCS-R272939					Units: % of sample		Analysis Date: 10/15/2019 09:43 A		
Client ID:			Run ID: MOIST_191015A			SeqNo: 5990856		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Moisture 100 0.10 100 0 100 98-102 0

DUP		Sample ID: 19100942-01B DUP				Units: % of sample		Analysis Date: 10/15/2019 09:43 A		
Client ID:		Run ID: MOIST_191015A		SeqNo: 5990840		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 11.64 0.10 0 0 0 0-0 11.73 0.77 10

DUP				Sample ID: 19101046-01A DUP				Units: % of sample			Analysis Date: 10/15/2019 09:43 A			
Client ID: Fee 90X (5.5 ft bgs)				Run ID: MOIST_191015A				SeqNo: 5990855			Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				

Moisture 4.89 0.10 0 0 0 0-0 4.87 0.41 10

The following samples were analyzed in this batch:

19101046-01A

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



Chain of Custody Form

Page 1 of 1

COC ID: 123456

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+1 281 530 5656

☐ Middletown, PA
+1 717 944 5541

☐ Salt Lake City, UT
+1 801 266 7700

☐ Spring City, PA
+1 610 948 4903

☐ York, PA
+1 717 505 5280

Customer Information			ALS Project Manager:				Work Order #: 19101046												
Project Information			Parameter/Method Request for Analysis																
Purchase Order		Project Name	Fee90 X Spill				A TPH (GRO & DRO)												
Work Order		Project Number	018-065				B BTEX												
Company Name	Entrada Consulting Group		Bill To Company	Entrada Consulting Group				C PAH (See Attached List) CO Table 910											
Send Report To	Tim Dobransky		Invoice Attn	Tim Dobransky				D Electrical Conductivity											
Address	330 Grand Ave, Suite C		Address					E Sodium Adsorption Ratio											
City/State/Zip	Grand Junction, CO 81501		City/State/Zip					F pH											
Phone	970.270.2986		Phone					G Metals (See Attached List) CO Table 910											
Fax			Fax					H Arsenic Only											
e-Mail Address	tdobransky@entradainc.com		e-Mail Address	tdobransky@entradainc.com				I											
								J											
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold		
1	Fee 90X (5.5 ft bgs)	10/07/19	1220	Soil	8	1	X	X	X	X	X	X	X						
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			

Sampler(s): Please Print & Sign CVX			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:	Date:	Time:	Received by:	Notes: Chevron Pricing Applies - Per Bruce Schlatter						
Relinquished by: Nm	Date: 10/10/19	Time: 1830	Received by (Laboratory):	Cooler Temp. 32°C						
Logged by (Laboratory): Kew	Date: 10/12/19	Time: 1055	Checked by (Laboratory):	QC Package: (Check Box Below)						
Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4 degrees C 9-5035				<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 <input type="checkbox"/> 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: **ENTRADA**

Date/Time Received: **12-Oct-19 10:00**

Work Order: **19101046**

Received by: **KRW**

Checklist completed by Keith Wurenga
eSignature

12-Oct-19
Date

Reviewed by: Chad Whelton
eSignature

14-Oct-19
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>3.2/3.2 C</u>		<u>SR2</u>
Cooler(s)/Kit(s):	<u></u>		
Date/Time sample(s) sent to storage:	<u>10/12/2019 10:59:04 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:



05-Nov-2019

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

Re: **Fee90 X Spill**

Work Order: **19101623**

Dear Tim,

ALS Environmental received 2 samples on 19-Oct-2019 10:00 AM for the analyses presented in the following report.

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

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 23.

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

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

Sincerely,

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

Electronically approved by: Chad Whelton

Chad Whelton
Project Manager

Report of Laboratory Analysis

Certificate No: MN 026-999-449

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

Environmental 

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: Entrada Consulting Group
Project: Fee90 X Spill
Work Order: 19101623

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>
19101623-01	FEE90X-SS1	Soil		10/17/2019 09:00	10/19/2019 10:00	<input type="checkbox"/>
19101623-02	FEE90X-BG1	Soil		10/17/2019 09:05	10/19/2019 10:00	<input type="checkbox"/>

Client: Entrada Consulting Group**Project:** Fee90 X Spill**Work Order:** 19101623**Case Narrative**

Batch 144883, Method ICP_6020_S, Samples 19101623-01A and -02A: The concentrations in the Method Blank were greater than the quantitation limits for Chromium, Nickel, and Zinc. The sample results were greater than 10x the concentration in the Method Blank; therefore, no qualification is required.

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

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

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

s.u. Standard Units

ALS Group, USA

Date: 05-Nov-19

Client: Entrada Consulting Group
Project: Fee90 X Spill
Sample ID: FEE90X-SS1
Collection Date: 10/17/2019 09:00 AM

Work Order: 19101623
Lab ID: 19101623-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015M		Prep: SW3550 / 10/24/19		Analyst: KB
DRO (C10-C28)	23		2.9	5.1	mg/Kg-dry	1	10/25/2019 12:14
Surr: 4-Terphenyl-d14	65.8			33-111	%REC	1	10/25/2019 12:14
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW5035 / 10/22/19		Analyst: KB
GRO (C6-C10)	U		2.0	4.8	mg/Kg	1	10/24/2019 07:18
Surr: Toluene-d8	83.9			71-123	%REC	1	10/24/2019 07:18
MERCURY BY CVAA							
			Method: SW7471B		Prep: SW7471 / 10/30/19		Analyst: RSB
Mercury	0.015	J	0.0019	0.019	mg/Kg-dry	1	10/30/2019 14:03
METALS BY ICP-MS							
			Method: SW6020A		Prep: SW3050B / 10/30/19		Analyst: STP
Arsenic	5.7		0.047	0.39	mg/Kg-dry	1	10/31/2019 19:53
Barium	190		3.6	3.9	mg/Kg-dry	10	11/1/2019 17:26
Cadmium	0.17		0.023	0.16	mg/Kg-dry	1	10/31/2019 19:53
Chromium	11	B	0.17	0.39	mg/Kg-dry	1	10/31/2019 19:53
Copper	9.6		0.39	0.39	mg/Kg-dry	1	10/31/2019 19:53
Lead	12		0.19	0.39	mg/Kg-dry	1	10/31/2019 19:53
Nickel	14	B	0.20	0.39	mg/Kg-dry	1	10/31/2019 19:53
Selenium	0.96		0.36	0.39	mg/Kg-dry	1	10/31/2019 19:53
Silver	U		0.052	0.39	mg/Kg-dry	1	10/31/2019 19:53
Zinc	46	B	0.77	0.78	mg/Kg-dry	1	10/31/2019 19:53
SOLUBLE CATIONS FOR SAR							
			Method: SW6020A		Prep: USDA Method 20B / 10/31/19		Analyst: STP
Calcium	1,200		2.5	5.0	mg/L	10	11/1/2019 18:05
Magnesium	120		0.50	2.0	mg/L	10	11/1/2019 18:05
Sodium	580		0.45	2.0	mg/L	10	11/1/2019 18:05
SODIUM ADSORPTION RATIO							
			Method: USDA H60 METHOD 2		Prep: USDA Method 20B / 10/31/19		Analyst: STP
Sodium Adsorption Ratio	4.2		0.010	0.010	none	1	11/1/2019
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS)							
			Method: SW846 8270D		Prep: SW3546 / 10/24/19		Analyst: EEW
Acenaphthene	U		0.0025	0.013	mg/Kg-dry	1	10/25/2019 12:37
Anthracene	U		0.0043	0.013	mg/Kg-dry	1	10/25/2019 12:37
Benzo(a)anthracene	U		0.0052	0.013	mg/Kg-dry	1	10/25/2019 12:37
Benzo(a)pyrene	U		0.0035	0.013	mg/Kg-dry	1	10/25/2019 12:37
Benzo(b)fluoranthene	U		0.0030	0.013	mg/Kg-dry	1	10/25/2019 12:37
Benzo(k)fluoranthene	U		0.0037	0.013	mg/Kg-dry	1	10/25/2019 12:37
Chrysene	U		0.0026	0.013	mg/Kg-dry	1	10/25/2019 12:37
Dibenzo(a,h)anthracene	U		0.0030	0.013	mg/Kg-dry	1	10/25/2019 12:37
Fluoranthene	U		0.0023	0.013	mg/Kg-dry	1	10/25/2019 12:37

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

ALS Group, USA

Date: 05-Nov-19

Client: Entrada Consulting Group
Project: Fee90 X Spill
Sample ID: FEE90X-SS1
Collection Date: 10/17/2019 09:00 AM

Work Order: 19101623
Lab ID: 19101623-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	U		0.0042	0.013	mg/Kg-dry	1	10/25/2019 12:37
Indeno(1,2,3-cd)pyrene	U		0.0046	0.013	mg/Kg-dry	1	10/25/2019 12:37
Naphthalene	U		0.0055	0.013	mg/Kg-dry	1	10/25/2019 12:37
Pyrene	U		0.0021	0.013	mg/Kg-dry	1	10/25/2019 12:37
Surr: 2-Fluorobiphenyl	88.1			20-140	%REC	1	10/25/2019 12:37
Surr: 4-Terphenyl-d14	57.8			22-172	%REC	1	10/25/2019 12:37
Surr: Nitrobenzene-d5	86.7			28-140	%REC	1	10/25/2019 12:37
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C		Prep: SW5035 / 10/22/19		Analyst: JNS
Benzene	U		0.0049	0.029	mg/Kg-dry	1	10/30/2019 21:23
Ethylbenzene	0.0072	J	0.0061	0.029	mg/Kg-dry	1	10/30/2019 21:23
m,p-Xylene	0.052	J	0.038	0.058	mg/Kg-dry	1	10/30/2019 21:23
o-Xylene	0.025	J	0.011	0.029	mg/Kg-dry	1	10/30/2019 21:23
Toluene	0.028	J	0.0079	0.029	mg/Kg-dry	1	10/30/2019 21:23
Xylenes, Total	0.077	J	0.038	0.086	mg/Kg-dry	1	10/30/2019 21:23
Surr: 1,2-Dichloroethane-d4	94.8			70-130	%REC	1	10/30/2019 21:23
Surr: 4-Bromofluorobenzene	95.6			70-130	%REC	1	10/30/2019 21:23
Surr: Dibromofluoromethane	93.1			70-130	%REC	1	10/30/2019 21:23
Surr: Toluene-d8	95.8			70-130	%REC	1	10/30/2019 21:23
ELECTRICAL CONDUCTIVITY (SAR)			Method: USDA H60 METHOD 2		Prep: USDA Method 20B / 10/31/19		Analyst: QTN
Electrical Conductivity @ Saturation	10		0.011	0.10	mmhos/cm @25°	20	11/1/2019 09:40
CHROMIUM, TRIVALENT			Method: CALCULATION				Analyst: RZM
Chromium, Trivalent	11		0.32	1.0	mg/Kg-dry	1	11/4/2019 11:51
CHROMIUM, HEXAVALENT			Method: SW7196A		Prep: SW3060A / 10/24/19		Analyst: RZM
Chromium, Hexavalent	U		0.87	1.0	mg/Kg-dry	1	10/24/2019 15:44
MOISTURE			Method: SW3550C				Analyst: KTP
Moisture	2.6		0.10	0.10	% of sample	1	10/23/2019 12:40
PH			Method: SW9045D		Prep: EXTRACT / 10/21/19		Analyst: DNW
pH	7.73		0.10	0.100	s.u.	1	10/22/2019 08:50
Temperature	20.8		0.10	0.100	°C	1	10/22/2019 08:50

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

ALS Group, USA

Date: 05-Nov-19

Client: Entrada Consulting Group
Project: Fee90 X Spill
Sample ID: FEE90X-BG1
Collection Date: 10/17/2019 09:05 AM

Work Order: 19101623
Lab ID: 19101623-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA							
Mercury	0.022		0.0020	0.020	mg/Kg-dry	1	10/30/2019 14:05
Method: SW7471B Prep: SW7471 / 10/30/19 Analyst: RSH							
METALS BY ICP-MS							
Arsenic	7.1		0.041	0.34	mg/Kg-dry	1	10/31/2019 19:54
Barium	280		3.1	3.4	mg/Kg-dry	10	11/1/2019 17:28
Boron	11		1.3	1.4	mg/Kg-dry	1	10/31/2019 19:54
Cadmium	0.30		0.020	0.14	mg/Kg-dry	1	10/31/2019 19:54
Chromium	12	B	0.15	0.34	mg/Kg-dry	1	10/31/2019 19:54
Copper	14		3.4	3.4	mg/Kg-dry	10	11/1/2019 17:28
Lead	21		0.16	0.34	mg/Kg-dry	1	10/31/2019 19:54
Nickel	20	B	1.8	3.4	mg/Kg-dry	10	11/1/2019 17:28
Selenium	0.94		0.31	0.34	mg/Kg-dry	1	10/31/2019 19:54
Silver	0.069	J	0.045	0.34	mg/Kg-dry	1	10/31/2019 19:54
Zinc	71	B	0.67	0.68	mg/Kg-dry	1	10/31/2019 19:54
Method: SW6020A Prep: SW3050B / 10/30/19 Analyst: STP							
SOLUBLE CATIONS FOR SAR							
Calcium	70		2.5	5.0	mg/L	10	11/1/2019 18:07
Magnesium	5.6		0.50	2.0	mg/L	10	11/1/2019 18:07
Sodium	51		0.45	2.0	mg/L	10	11/1/2019 18:07
Method: SW6020A Prep: USDA Method 20B / 10/31/19 Analyst: STP							
SODIUM ADSORPTION RATIO							
Sodium Adsorption Ratio	1.6		0.010	0.010	none	1	11/1/2019
Method: USDA H60 METHOD 2 Prep: USDA Method 20B / 10/31/19 Analyst: STP							
ELECTRICAL CONDUCTIVITY (SAR)							
Electrical Conductivity @ Saturation	0.69		0.011	0.10	mmhos/cm @25°	20	11/1/2019 09:40
Method: USDA H60 METHOD 2 Prep: USDA Method 20B / 10/31/19 Analyst: QTN							
CHROMIUM, TRIVALENT							
Chromium, Trivalent	12		0.32	1.0	mg/Kg-dry	1	11/4/2019 11:51
Method: CALCULATION Analyst: RZM							
CHROMIUM, HEXAVALENT							
Chromium, Hexavalent	U		0.88	1.0	mg/Kg-dry	1	10/24/2019 15:44
Method: SW7196A Prep: SW3060A / 10/24/19 Analyst: RZM							
MOISTURE							
Moisture	3.5		0.10	0.10	% of sample	1	10/23/2019 12:40
Method: SW3550C Analyst: KTP							
PH							
pH	7.44		0.10	0.100	s.u.	1	10/22/2019 08:50
Temperature	20.8		0.10	0.100	°C	1	10/22/2019 08:50
Method: SW9045D Prep: EXTRACT / 10/21/19 Analyst: DNW							

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

Client: Entrada Consulting Group
Work Order: 19101623
Project: Fee90 X Spill

QC BATCH REPORT

Batch ID: **144537** Instrument ID **GC8** Method: **SW8015M**

MBLK		Sample ID: DBLKS1-144537-144537				Units: mg/Kg		Analysis Date: 10/24/2019 04:57 P		
Client ID:		Run ID: GC8_191024A				SeqNo: 6011702		Prep Date: 10/24/2019		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	U	5.0	0	0	0		0			
Surr: 4-Terphenyl-d14	2.423	0	3.33	0	72.8	33-111	0			

LCS		Sample ID: DLCSS1-144537-144537				Units: mg/Kg		Analysis Date: 10/24/2019 05:27 P		
Client ID:		Run ID: GC8_191024A				SeqNo: 6011703		Prep Date: 10/24/2019		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	327.9	5.0	333	0	98.5	58-111	0			
Surr: 4-Terphenyl-d14	2.211	0	3.33	0	66.4	33-111	0			

MS		Sample ID: 19101622-01A MS				Units: mg/Kg		Analysis Date: 10/24/2019 06:25 P		
Client ID:		Run ID: GC8_191024A				SeqNo: 6011705		Prep Date: 10/24/2019		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	297.7	4.9	326.1	13.19	87.2	58-111	0			
Surr: 4-Terphenyl-d14	1.744	0	3.261	0	53.5	33-111	0			

MSD		Sample ID: 19101622-01A MSD				Units: mg/Kg		Analysis Date: 10/24/2019 06:54 P		
Client ID:		Run ID: GC8_191024A				SeqNo: 6011706		Prep Date: 10/24/2019		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	271.7	4.8	322.6	13.19	80.1	58-111	297.7	9.13	30	
Surr: 4-Terphenyl-d14	1.72	0	3.226	0	53.3	33-111	1.744	1.37	30	

The following samples were analyzed in this batch:

19101623-01A

Client: Entrada Consulting Group
 Work Order: 19101623
 Project: Fee90 X Spill

QC BATCH REPORT

Batch ID: **144421** Instrument ID **GC9** Method: **SW8015D**

MBLK		Sample ID: MBLK-144421-144421				Units: µg/Kg-dry		Analysis Date: 10/23/2019 11:32 P		
Client ID:		Run ID: GC9_191023A				SeqNo: 6009234		Prep Date: 10/22/2019		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	U	5,000								
Surr: Toluene-d8	4024	0	5000	0	80.5	71-123	0			

LCS		Sample ID: LCS-144421-144421				Units: µg/Kg-dry		Analysis Date: 10/23/2019 11:03 P		
Client ID:		Run ID: GC9_191023A				SeqNo: 6009233		Prep Date: 10/22/2019		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	478700	5,000	500000	0	95.7	71-123	0			
Surr: Toluene-d8	5522	0	5000	0	110	71-123	0			

MS		Sample ID: 19101623-01A MS				Units: µg/Kg-dry		Analysis Date: 10/24/2019 07:47 A		
Client ID: FEE90X-SS1		Run ID: GC9_191023A				SeqNo: 6009247		Prep Date: 10/22/2019		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	511500	5,000	500900	0	102	71-123	0			
Surr: Toluene-d8	5596	0	5009	0	112	71-123	0			

MSD		Sample ID: 19101623-01A MSD				Units: µg/Kg-dry		Analysis Date: 10/24/2019 08:16 A		
Client ID: FEE90X-SS1		Run ID: GC9_191023A				SeqNo: 6009248		Prep Date: 10/22/2019		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	503200	4,900	492200	0	102	71-123	511500	1.65	30	
Surr: Toluene-d8	5096	0	4922	0	104	71-123	5596	9.36	30	

The following samples were analyzed in this batch:

19101623-01A

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

Client: Entrada Consulting Group
 Work Order: 19101623
 Project: Fee90 X Spill

QC BATCH REPORT

Batch ID: **144847** Instrument ID **HG4** Method: **SW7471B**

MBLK		Sample ID: MBLK-144847-144847					Units: mg/Kg		Analysis Date: 10/30/2019 11:39 A		
Client ID:		Run ID: HG4_191030A					SeqNo: 6021923		Prep Date: 10/30/2019		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Mercury U 0.020

LCS		Sample ID: LCS-144847-144847					Units: mg/Kg		Analysis Date: 10/30/2019 11:41 A		
Client ID:			Run ID: HG4_191030A			SeqNo: 6021924		Prep Date: 10/30/2019		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Mercury 0.1628 0.020 0.1665 0 97.7 80-120 0

MS		Sample ID: 19102151-01AMS					Units: mg/Kg		Analysis Date: 10/30/2019 11:46 A	
Client ID:			Run ID: HG4_191030A			SeqNo: 6021926		Prep Date: 10/30/2019		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.09901 0.017 0.1407 -0.0002985 70.6 75-125 0 S

MSD		Sample ID: 19102151-01AMSD				Units: mg/Kg		Analysis Date: 10/30/2019 11:48 A		
Client ID:		Run ID: HG4_191030A			SeqNo: 6021927		Prep Date: 10/30/2019		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1098 0.017 0.1448 -0.0002985 76 75-125 0.09901 10.3 35

The following samples were analyzed in this batch:

19101623-01A	19101623-02A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Entrada Consulting Group
Work Order: 19101623
Project: Fee90 X Spill

QC BATCH REPORT

Batch ID: **144883** Instrument ID **ICPMS3** Method: **SW6020A**

MBLK		Sample ID: MBLK-144883-144883				Units: mg/Kg		Analysis Date: 10/31/2019 07:49 P		
Client ID:		Run ID: ICPMS3_191031B				SeqNo: 6026083		Prep Date: 10/30/2019		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	U	0.25								
Barium	U	0.25								
Boron	U	1.0								
Cadmium	U	0.10								
Lead	U	0.25								
Selenium	U	0.25								
Silver	U	0.25								

MBLK		Sample ID: MBLK-144883-144883				Units: mg/Kg		Analysis Date: 11/1/2019 05:20 PM		
Client ID:		Run ID: ICPMS3_191101B				SeqNo: 6029718		Prep Date: 10/30/2019		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium	0.4525	0.25								
Copper	U	0.25								
Nickel	0.3978	0.25								
Zinc	0.5275	0.50								

LCS		Sample ID: LCS-144883-144883				Units: mg/Kg		Analysis Date: 10/31/2019 07:51 P		
Client ID:		Run ID: ICPMS3_191031B				SeqNo: 6026084		Prep Date: 10/30/2019		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	5.121	0.25	5	0	102	80-120	0			
Barium	5.197	0.25	5	0	104	80-120	0			
Boron	25.05	1.0	25	0	100	80-120	0			
Cadmium	5.038	0.10	5	0	101	80-120	0			
Chromium	5.341	0.25	5	0	107	80-120	0			B
Copper	5.205	0.25	5	0	104	80-120	0			
Lead	5.239	0.25	5	0	105	80-120	0			
Nickel	5.24	0.25	5	0	105	80-120	0			B
Selenium	5.177	0.25	5	0	104	80-120	0			
Silver	5.208	0.25	5	0	104	80-120	0			
Zinc	5.41	0.50	5	0	108	80-120	0			B

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

Client: Entrada Consulting Group
 Work Order: 19101623
 Project: Fee90 X Spill

QC BATCH REPORT

Batch ID: **144883** Instrument ID **ICPMS3** Method: **SW6020A**

MS				Sample ID: 19101932-08BMS			Units: mg/Kg		Analysis Date: 10/31/2019 08:22 P	
Client ID:		Run ID: ICPMS3_191031B			SeqNo: 6026101		Prep Date: 10/30/2019		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	10.64	0.36	7.246	4.616	83.1	75-125	0			
Barium	71.38	0.36	7.246	69.32	28.4	75-125	0			SO
Boron	48.44	1.4	36.23	10.54	105	75-125	0			
Cadmium	5.532	0.14	7.246	0.02908	75.9	75-125	0			
Chromium	18.88	0.36	7.246	13.17	78.8	75-125	0			B
Copper	17.48	0.36	7.246	14.51	40.9	75-125	0			S
Lead	14.4	0.36	7.246	8.485	81.7	75-125	0			
Nickel	21.12	0.36	7.246	18.58	35.1	75-125	0			BS
Selenium	6.137	0.36	7.246	0.1396	82.8	75-125	0			
Silver	5.534	0.36	7.246	0.02805	76	75-125	0			
Zinc	37.09	0.72	7.246	34.89	30.4	75-125	0			BSO

MSD				Sample ID: 19101932-08BMSD			Units: mg/Kg		Analysis Date: 10/31/2019 08:24 P	
Client ID:		Run ID: ICPMS3_191031B			SeqNo: 6026102		Prep Date: 10/30/2019		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	10.56	0.34	6.831	4.616	87	75-125	10.64	0.752	20	
Barium	63.66	0.34	6.831	69.32	-82.8	75-125	71.38	11.4	20	SO
Boron	48.28	1.4	34.15	10.54	111	75-125	48.44	0.339	20	
Cadmium	5.258	0.14	6.831	0.02908	76.5	75-125	5.532	5.09	20	
Chromium	20.12	0.34	6.831	13.17	102	75-125	18.88	6.36	20	B
Copper	17.77	0.34	6.831	14.51	47.6	75-125	17.48	1.63	20	S
Lead	14.42	0.34	6.831	8.485	86.9	75-125	14.4	0.113	20	
Nickel	22.06	0.34	6.831	18.58	50.9	75-125	21.12	4.33	20	BS
Selenium	5.927	0.34	6.831	0.1396	84.7	75-125	6.137	3.48	20	
Silver	5.307	0.34	6.831	0.02805	77.3	75-125	5.534	4.19	20	
Zinc	35.21	0.68	6.831	34.89	4.76	75-125	37.09	5.19	20	BSO

The following samples were analyzed in this batch:

19101623-01A	19101623-02A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Entrada Consulting Group
Work Order: 19101623
Project: Fee90 X Spill

QC BATCH REPORT

Batch ID: **144954** Instrument ID **ICPMS3** Method: **SW6020A**

DUP		Sample ID: 19101625-01BDUP				Units: mg/L		Analysis Date: 11/1/2019 06:12 PM		
Client ID:		Run ID: ICPMS3_191101A				SeqNo: 6029626		Prep Date: 10/31/2019		DF: 10
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	30.19	5.0	0	0	0	0-0	73.01	83		
Magnesium	4.399	2.0	0	0	0	0-0	7.221	48.6		
Sodium	14.52	2.0	0	0	0	0-0	27.37	61.4		

The following samples were analyzed in this batch:

19101623-01B	19101623-02B
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Batch ID: **144954** Instrument ID **SAR** Method: **USDA H60 Metho**

DUP		Sample ID: 19101625-01BDUP				Units: none		Analysis Date: 11/1/2019		
Client ID:		Run ID: SAR_191101A				SeqNo: 6031905		Prep Date: 10/31/2019		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	0.6533	0.010	0	0	0		0.8179	22.4	50	

The following samples were analyzed in this batch:

19101623-01B	19101623-02B
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Entrada Consulting Group
 Work Order: 19101623
 Project: Fee90 X Spill

QC BATCH REPORT

Batch ID: **144545** Instrument ID **SVMS6** Method: **SW846 8270D**

MBLK				Sample ID: SBLKS1-144545-144545				Units: µg/Kg			Analysis Date: 10/25/2019 11:26 A			
Client ID:				Run ID: SVMS6_191025A				SeqNo: 6011885			Prep Date: 10/24/2019		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				
Acenaphthene	U	4.2												
Anthracene	U	4.2												
Benzo(a)anthracene	U	4.2												
Benzo(a)pyrene	U	4.2												
Benzo(b)fluoranthene	U	4.2												
Benzo(k)fluoranthene	U	4.2												
Chrysene	U	4.2												
Dibenzo(a,h)anthracene	U	4.2												
Fluoranthene	U	4.2												
Fluorene	U	4.2												
Indeno(1,2,3-cd)pyrene	U	4.2												
Naphthalene	U	4.2												
Pyrene	U	4.2												
Surr: 2-Fluorobiphenyl	3111	0	3333	0	93.3	20-140		0						
Surr: 4-Terphenyl-d14	2067	0	3333	0	62	22-172		0						
Surr: Nitrobenzene-d5	3089	0	3333	0	92.7	28-140		0						

LCS				Sample ID: SLCSS1-144545-144545				Units: µg/Kg		Analysis Date: 10/25/2019 12:00 P	
Client ID:			Run ID: SVMS6_191024A			SeqNo: 6011600		Prep Date: 10/24/2019		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	1156	4.2	1333	0	86.7	40-140	0				
Anthracene	1247	4.2	1333	0	93.6	40-140	0				
Benzo(a)anthracene	1136	4.2	1333	0	85.2	40-140	0				
Benzo(a)pyrene	1216	4.2	1333	0	91.2	40-140	0				
Benzo(b)fluoranthene	1175	4.2	1333	0	88.1	40-140	0				
Benzo(k)fluoranthene	1180	4.2	1333	0	88.5	40-140	0				
Chrysene	1096	4.2	1333	0	82.2	40-140	0				
Dibenzo(a,h)anthracene	1173	4.2	1333	0	88	40-140	0				
Fluoranthene	1203	4.2	1333	0	90.2	40-140	0				
Fluorene	1255	4.2	1333	0	94.2	40-140	0				
Indeno(1,2,3-cd)pyrene	1309	4.2	1333	0	98.2	40-140	0				
Naphthalene	1229	4.2	1333	0	92.2	40-140	0				
Pyrene	1116	4.2	1333	0	83.8	40-140	0				
Surr: 2-Fluorobiphenyl	3123	0	3333	0	93.7	20-140	0				
Surr: 4-Terphenyl-d14	2125	0	3333	0	63.8	22-172	0				
Surr: Nitrobenzene-d5	2914	0	3333	0	87.4	28-140	0				

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

Client: Entrada Consulting Group
 Work Order: 19101623
 Project: Fee90 X Spill

QC BATCH REPORT

Batch ID: **144545** Instrument ID **SVMS6** Method: **SW846 8270D**

MS				Sample ID: 19101759-07A MS			Units: µg/Kg		Analysis Date: 10/25/2019 12:16 P		
Client ID:			Run ID: SVMS6_191024A			SeqNo: 6011601		Prep Date: 10/24/2019		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	1042	4.2	1330	0	78.4	40-140	0				
Anthracene	1140	4.2	1330	0	85.7	40-140	0				
Benzo(a)anthracene	1024	4.2	1330	4.751	76.7	40-140	0				
Benzo(a)pyrene	1063	4.2	1330	0	79.9	40-140	0				
Benzo(b)fluoranthene	1069	4.2	1330	3.924	80.1	40-140	0				
Benzo(k)fluoranthene	1033	4.2	1330	2.627	77.5	40-140	0				
Chrysene	975.3	4.2	1330	4.702	73	40-140	0				
Dibenzo(a,h)anthracene	1024	4.2	1330	0	77	40-140	0				
Fluoranthene	1082	4.2	1330	0	81.4	40-140	0				
Fluorene	1108	4.2	1330	0	83.4	40-140	0				
Indeno(1,2,3-cd)pyrene	1143	4.2	1330	0	86	40-140	0				
Naphthalene	1133	4.2	1330	0	85.2	40-140	0				
Pyrene	983	4.2	1330	0	73.9	40-140	0				
Surr: 2-Fluorobiphenyl	2828	0	3325	0	85.1	20-140	0				
Surr: 4-Terphenyl-d14	1912	0	3325	0	57.5	22-172	0				
Surr: Nitrobenzene-d5	2872	0	3325	0	86.4	28-140	0				

MSD				Sample ID: 19101759-07A MSD			Units: µg/Kg		Analysis Date: 10/25/2019 12:31 P		
Client ID:			Run ID: SVMS6_191024A			SeqNo: 6011602		Prep Date: 10/24/2019		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	1106	4.1	1319	0	83.9	40-140	1042	5.93	30		
Anthracene	1209	4.1	1319	0	91.7	40-140	1140	5.91	30		
Benzo(a)anthracene	1134	4.1	1319	4.751	85.6	40-140	1024	10.1	30		
Benzo(a)pyrene	1188	4.1	1319	0	90.1	40-140	1063	11.1	30		
Benzo(b)fluoranthene	1184	4.1	1319	3.924	89.5	40-140	1069	10.2	30		
Benzo(k)fluoranthene	1126	4.1	1319	2.627	85.2	40-140	1033	8.65	30		
Chrysene	1087	4.1	1319	4.702	82.1	40-140	975.3	10.9	30		
Dibenzo(a,h)anthracene	1148	4.1	1319	0	87	40-140	1024	11.4	30		
Fluoranthene	1141	4.1	1319	0	86.6	40-140	1082	5.31	30		
Fluorene	1181	4.1	1319	0	89.6	40-140	1108	6.36	30		
Indeno(1,2,3-cd)pyrene	1281	4.1	1319	0	97.1	40-140	1143	11.3	30		
Naphthalene	1199	4.1	1319	0	90.9	40-140	1133	5.68	30		
Pyrene	1093	4.1	1319	0	82.9	40-140	983	10.6	30		
Surr: 2-Fluorobiphenyl	3006	0	3297	0	91.2	20-140	2828	6.08	0		
Surr: 4-Terphenyl-d14	2093	0	3297	0	63.5	22-172	1912	9.07	0		
Surr: Nitrobenzene-d5	2889	0	3297	0	87.6	28-140	2872	0.582	0		

The following samples were analyzed in this batch:

19101623-01A

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

Client: Entrada Consulting Group
 Work Order: 19101623
 Project: Fee90 X Spill

QC BATCH REPORT

Batch ID: **144420** Instrument ID **VMS6** Method: **SW8260C**

MBLK		Sample ID: MBLK-144420-144420				Units: µg/Kg-dry		Analysis Date: 10/23/2019 03:29 P		
Client ID:		Run ID: VMS6_191023A				SeqNo: 6008243		Prep Date: 10/22/2019		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	U	30								
Ethylbenzene	U	30								
m,p-Xylene	U	60								
o-Xylene	U	30								
Toluene	U	30								
Xylenes, Total	U	90								
Surr: 1,2-Dichloroethane-d4	1042	0	1000	0	104	70-130	0			
Surr: 4-Bromofluorobenzene	932	0	1000	0	93.2	70-130	0			
Surr: Dibromofluoromethane	960.5	0	1000	0	96	70-130	0			
Surr: Toluene-d8	1058	0	1000	0	106	70-130	0			

LCS		Sample ID: LCS-144420-144420				Units: µg/Kg-dry		Analysis Date: 10/23/2019 02:16 P		
Client ID:		Run ID: VMS6_191023A				SeqNo: 6008242		Prep Date: 10/22/2019		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	886.5	30	1000	0	88.6	75-125	0			
Ethylbenzene	936.5	30	1000	0	93.6	75-125	0			
m,p-Xylene	1852	60	2000	0	92.6	80-125	0			
o-Xylene	933.5	30	1000	0	93.4	75-125	0			
Toluene	982	30	1000	0	98.2	70-125	0			
Xylenes, Total	2786	90	3000	0	92.9	75-125	0			
Surr: 1,2-Dichloroethane-d4	1066	0	1000	0	107	70-130	0			
Surr: 4-Bromofluorobenzene	957	0	1000	0	95.7	70-130	0			
Surr: Dibromofluoromethane	1067	0	1000	0	107	70-130	0			
Surr: Toluene-d8	1106	0	1000	0	111	70-130	0			

MS		Sample ID: 19101623-01A MS				Units: µg/Kg-dry		Analysis Date: 10/31/2019 03:03 A		
Client ID: FEE90X-SS1		Run ID: VMS11_191030A				SeqNo: 6024171		Prep Date: 10/22/2019		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	854	30	1002	0	85.2	75-125	0			
Ethylbenzene	883.5	30	1002	7.194	87.5	75-125	0			
m,p-Xylene	1746	60	2003	51.8	84.6	80-125	0			
o-Xylene	871	30	1002	24.94	84.5	75-125	0			
Toluene	897.5	30	1002	28.3	86.8	70-125	0			
Xylenes, Total	2617	90	3005	77	84.5	75-125	0			
Surr: 1,2-Dichloroethane-d4	942.1	0	1002	0	94	70-130	0			
Surr: 4-Bromofluorobenzene	966.2	0	1002	0	96.4	70-130	0			
Surr: Dibromofluoromethane	950.6	0	1002	0	94.9	70-130	0			
Surr: Toluene-d8	959.6	0	1002	0	95.8	70-130	0			

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

Client: Entrada Consulting Group
 Work Order: 19101623
 Project: Fee90 X Spill

QC BATCH REPORT

Batch ID: **144420** Instrument ID **VMS6** Method: **SW8260C**

MSD					Sample ID: 19101623-01A MSD			Units: µg/Kg-dry		Analysis Date: 10/31/2019 03:26 A	
Client ID: FEE90X-SS1				Run ID: VMS11_191030A			SeqNo: 6024172		Prep Date: 10/22/2019		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	823	30	984.4	0	83.6	75-125	854	3.69	30		
Ethylbenzene	879.1	30	984.4	7.194	88.6	75-125	883.5	0.501	30		
m,p-Xylene	1742	59	1969	51.8	85.9	80-125	1746	0.232	30		
o-Xylene	877.6	30	984.4	24.94	86.6	75-125	871	0.758	30		
Toluene	862.4	30	984.4	28.3	84.7	70-125	897.5	4	30		
Xylenes, Total	2620	89	2953	77	86.1	75-125	2617	0.0989	30		
Surr: 1,2-Dichloroethane-d4	935.7	0	984.4	0	95	70-130	942.1	0.683	30		
Surr: 4-Bromofluorobenzene	980	0	984.4	0	99.6	70-130	966.2	1.42	30		
Surr: Dibromofluoromethane	927.3	0	984.4	0	94.2	70-130	950.6	2.48	30		
Surr: Toluene-d8	962.8	0	984.4	0	97.8	70-130	959.6	0.326	30		

The following samples were analyzed in this batch:

19101623-01A

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

Client: Entrada Consulting Group
Work Order: 19101623
Project: Fee90 X Spill

QC BATCH REPORT

Batch ID: **144360** Instrument ID **WETCHEM** Method: **SW9045D**

LCS		Sample ID: LCS-144360-144360				Units: s.u.		Analysis Date: 10/22/2019 08:50 A		
Client ID:		Run ID: WETCHEM_191022A			SeqNo: 6002758		Prep Date: 10/21/2019		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	3.96	0.10	4	0	99	90-110	0			

DUP				Sample ID: 19101622-01A DUP				Units: s.u.			Analysis Date: 10/22/2019 08:50 A			
Client ID:				Run ID: WETCHEM_191022A				SeqNo: 6002769			Prep Date: 10/21/2019		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual			
pH		7.77	0.10	0	0	0	0-0	7.67	1.3	20				
Temperature		20.7	0.10	0	0	0		20.7	0					

The following samples were analyzed in this batch:

19101623-01A	19101623-02A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Entrada Consulting Group
 Work Order: 19101623
 Project: Fee90 X Spill

QC BATCH REPORT

Batch ID: **144589** Instrument ID **WETCHEM** Method: **SW7196A**

MBLK		Sample ID: MBLK-144589-144589				Units: mg/Kg		Analysis Date: 10/24/2019 03:44 P		
Client ID:		Run ID: WETCHEM_191024Q				SeqNo: 6009989		Prep Date: 10/24/2019		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent U 1.0

LCS		Sample ID: LCS-144589-144589				Units: mg/Kg		Analysis Date: 10/24/2019 03:44 P		
Client ID:		Run ID: WETCHEM_191024Q				SeqNo: 6009990		Prep Date: 10/24/2019		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 4.75 1.0 5 0 95 80-120 0

MS		Sample ID: 19101476-07A MS				Units: mg/Kg		Analysis Date: 10/24/2019 03:44 P		
Client ID:		Run ID: WETCHEM_191024Q				SeqNo: 6009993		Prep Date: 10/24/2019		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 3.2 1.0 5 0.88 46.4 75-125 0 S

MS		Sample ID: 19101476-07A MSI				Units: mg/Kg		Analysis Date: 10/24/2019 03:44 P		
Client ID:		Run ID: WETCHEM_191024Q				SeqNo: 6009995		Prep Date: 10/24/2019		DF: 200
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 3066 200 3186 0.88 96.2 75-125 0

MSD		Sample ID: 19101476-07A MSD				Units: mg/Kg		Analysis Date: 10/24/2019 03:44 P		
Client ID:		Run ID: WETCHEM_191024Q				SeqNo: 6009994		Prep Date: 10/24/2019		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 3.85 1.0 5 0.88 59.4 75-125 3.2 18.4 20 S

The following samples were analyzed in this batch:

19101623-01A	19101623-02A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Entrada Consulting Group
 Work Order: 19101623
 Project: Fee90 X Spill

QC BATCH REPORT

Batch ID: **R273683** Instrument ID **MOIST** Method: **SW3550C**

MBLK		Sample ID: WBLKS-R273683				Units: % of sample			Analysis Date: 10/23/2019 12:40 P		
Client ID:		Run ID: MOIST_191023B				SeqNo: 6008950			Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Moisture U 0.10

LCS		Sample ID: LCS-R273683				Units: % of sample			Analysis Date: 10/23/2019 12:40 P		
Client ID:		Run ID: MOIST_191023B				SeqNo: 6008949			Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Moisture 100 0.10 100 0 100 98-102 0

DUP		Sample ID: 19101712-10B DUP				Units: % of sample			Analysis Date: 10/23/2019 12:40 P		
Client ID:		Run ID: MOIST_191023B				SeqNo: 6008941			Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Moisture 27.81 0.10 0 0 0 0-0 27.37 1.59 10

DUP		Sample ID: 19101759-04A DUP				Units: % of sample			Analysis Date: 10/23/2019 12:40 P		
Client ID:		Run ID: MOIST_191023B				SeqNo: 6008946			Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Moisture 5.75 0.10 0 0 0 0-0 5.85 1.72 10

The following samples were analyzed in this batch:

19101623-01A	19101623-02A
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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 |

ALS Project Manager:				Work Order #: <u>19101623</u>																			
Customer Information				Project Information				Parameter/Method Request for Analysis															
Purchase Order				Project Name		Fee90 X Spill		A TPH (GRO & DRO)															
Work Order				Project Number		018-065		B BTEX															
Company Name		Entrada Consulting Group		Bill To Company		Entrada Consulting Group		C PAH (See Attached List) CO Table 910															
Send Report To		Tim Dobransky		Invoice Attn		Tim Dobransky		D Electrical Conductivity															
Address		330 Grand Ave, Suite C		Address				E Sodium Adsorption Ratio															
								F pH															
City/State/Zip		Grand Junction, CO 81501		City/State/Zip				G Metals (See Attached List) CO Table 910															
Phone		970.270.2986		Phone				H Arsenic Only															
Fax				Fax				I															
e-Mail Address		tdobransky@entradainc.com		e-Mail Address		tdobransky@entradainc.com		J															

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	FEE90X-SS1	10/17/19	900	Soil	8	2	X	X	X	X	X	X	X				
2	FEE90X-BG1	10/17/19	905	Soil	8	2				X	X	X	X				
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s): Please Print & Sign Tim Dobransky			Shipment Method: FedEx		Required Turnaround Time: <input 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					
Relinquished by:		Date:	Time:	Received by (Laboratory):		QC Package: (Check Box Below)					
Logged by (Laboratory):		Date:	Time:	Checked by (Laboratory):		Cooler Temp.	<input checked="" type="checkbox"/> Level II: Standard QC				
						SP2 2.8°C	<input type="checkbox"/> Level III: Std QC + Raw Data				
							<input type="checkbox"/> 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 9-5035						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: **ENTRADA**

Date/Time Received: **19-Oct-19 10:00**

Work Order: **19101623**

Received by: **DS**

Checklist completed by Diane Shaw 21-Oct-19
eSignature Date

Reviewed by: Chad Whelton 21-Oct-19
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>2.8/2.8 c</u>		<u>SR2</u>
Cooler(s)/Kit(s):	<u></u>		
Date/Time sample(s) sent to storage:	<u>10/21/2019 2:10:37 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: