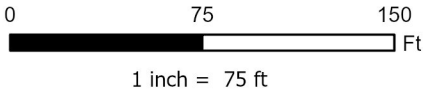




Legend

● Soil Sample Location ● Spill Origin  Spill Area




Project No: 018-065	UP 48-29 Spill Chevron USA, Inc. Rio Blanco County, Colorado NWNE Sec 29 T2S R102W	 ENTRADA CONSULTING GROUP	330 Grand Avenue, Unit C Grand Junction, CO 81501 970-549-1015	Figure
Map By: NDB				1
Date: 4/7/2021				

Table 1
UP 48-29 Spill
Soil Data Summary

SAMPLE SUMMARY	
Location Description	UP 48-29 Spill
Sample Type	Grab Soil

LABORATORY DATA SUMMARY				
Sample ID	UP4829-SS1	UP4829-BG1	COGCC TABLE 910-1 CONCENTRATION LEVELS	UNITS
Depth	0-6"	0-6"		
Sample Date	4/1/2021	4/1/2021		
Analytical Parameters				
TPH				
TPH Gasoline Range Organics	<2.4	NT	500	mg/kg
TPH Diesel Range Organics	6.5 J	NT		
BTEX				
Benzene	<0.017	NT	0.17	mg/kg
Toluene	<0.0096	NT	85	mg/kg
Ethylbenzene	<0.0074	NT	100	mg/kg
Total Xylene	<0.047	NT	175	mg/kg
Metals				
Arsenic	6.5	4.6	0.39	mg/kg
Barium	220	220	15,000	mg/kg
Cadmium	0.33	0.19	70	mg/kg
Chromium	9.3	6.6	NA	mg/kg
Copper	10	7.2	3,100	mg/kg
Lead	15	12	400	mg/kg
Mercury	0.022	<0.012	23	mg/kg
Nickel	15	8	1,600	mg/kg
Selenium	0.72	0.39 J	390	mg/kg
Silver	0.059 J	<0.053	390	mg/kg
Zinc	46	41	23,000	mg/kg
SAR Metals Analysis				
Calcium	52	77	NA	mg/L
Magnesium	6.7	10	NA	mg/L
Sodium	1300	34	NA	mg/L
Sodium Adsorption Ratio	45	0.98	<12	ratio
Polynuclear Aromatic Hydrocarbons				
Acenaphthene	0.0041 J	NT	1,000	mg/kg
Anthracene	<0.0041	NT	1,000	mg/kg
Benzo(a)anthracene	<0.0044	NT	0.22	mg/kg
Benzo(a)pyrene	<0.0036	NT	0.022	mg/kg
Benzo(b)fluoranthene	<0.0038	NT	0.22	mg/kg
Benzo(k)fluoranthene	<0.0037	NT	2.2	mg/kg
Chrysene	<0.0042	NT	22	mg/kg
Dibenzo(a,h)anthracene	<0.0037	NT	0.022	mg/kg
Fluoranthene	0.0055	NT	1,000	mg/kg
Fluorene	0.0057	NT	1,000	mg/kg
Indeno(1,2,3-cd)pyrene	<0.0040	NT	0.22	mg/kg
Napthalene	0.046	NT	23	mg/kg
Pyrene	0.0064	NT	1,000	mg/kg
General Chemistry				
Chromium, Hexavalent	<0.93	<0.97	23	mg/kg
Chromium, Trivalent	9.3	6.6	120,000	mg/kg
Specific Conductivity	7.3	0.67	<4 or 2 x the background	mmhos/cm
pH	9.44	8.44	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



14-Apr-2021

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

Re: **UP 48-29 Spill**

Work Order: **21040301**

Dear Tim,

ALS Environmental received 2 samples on 03-Apr-2021 09:30 AM for the analyses presented in the following report.

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

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

The total number of pages in this report is 29.

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: UP 48-29 Spill
Work Order: 21040301

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>
21040301-01	UP4829-SS1	Soil		4/1/2021 12:00	4/3/2021 09:30	<input type="checkbox"/>
21040301-02	UP4829-BG1	Soil		4/1/2021 12:15	4/3/2021 09:30	<input type="checkbox"/>

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

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

<u>Units Reported</u>	<u>Description</u>
% of sample	Percent of Sample
°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: 14-Apr-21

Client: Entrada Consulting Group
Project: UP 48-29 Spill
Sample ID: UP4829-SS1
Collection Date: 4/1/2021 12:00 PM

Work Order: 21040301
Lab ID: 21040301-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW3550 / 4/5/21		Analyst: JZB
DRO (C10-C28)	6.5	J	3.0	11	mg/Kg-dry	1	4/7/2021 00:43
Surr: 4-Terphenyl-d14	65.5			33-111	%REC	1	4/7/2021 00:43
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW5035 / 4/7/21		Analyst: JZB
GRO (C6-C10)	U		2.4	5.8	mg/Kg	1	4/8/2021 13:09
Surr: Toluene-d8	96.2			71-123	%REC	1	4/8/2021 13:09
MERCURY BY CVAA							
			Method: SW7471B		Prep: SW7471 / 4/7/21		Analyst: MAC
Mercury	0.022		0.014	0.020	mg/Kg-dry	1	4/7/2021 16:28
METALS BY ICP-MS							
			Method: SW6020B		Prep: SW3050B / 4/7/21		Analyst: STP
Arsenic	6.5		0.053	0.44	mg/Kg-dry	1	4/7/2021 18:36
Barium	220		4.0	4.4	mg/Kg-dry	10	4/8/2021 15:23
Cadmium	0.33		0.026	0.18	mg/Kg-dry	1	4/7/2021 18:36
Chromium	9.3		0.19	0.44	mg/Kg-dry	1	4/8/2021 15:42
Copper	10		0.44	0.44	mg/Kg-dry	1	4/8/2021 15:42
Lead	15		0.21	0.44	mg/Kg-dry	1	4/7/2021 18:36
Nickel	15		0.23	0.44	mg/Kg-dry	1	4/7/2021 18:36
Selenium	0.72		0.40	0.44	mg/Kg-dry	1	4/7/2021 18:36
Silver	0.059	J	0.058	0.44	mg/Kg-dry	1	4/7/2021 18:36
Zinc	46		0.84	0.86	mg/Kg-dry	1	4/9/2021 21:27
SOLUBLE CATIONS FOR SAR							
			Method: SW6020B		Prep: USDA Method 20B / 4/13/21		Analyst: STP
Calcium	52		2.5	5.0	mg/L	10	4/13/2021 17:12
Magnesium	6.7		0.50	2.0	mg/L	10	4/13/2021 17:12
Sodium	1,300		1.8	2.0	mg/L	10	4/13/2021 17:12
SODIUM ADSORPTION RATIO							
			Method: USDA H60 METHOD 2		Prep: USDA Method 20B / 4/13/21		Analyst: STP
Sodium Adsorption Ratio	45		0.010	0.010	none	1	4/13/2021
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS)							
			Method: SW8270E		Prep: SW3546 / 4/6/21		Analyst: EEW
Acenaphthene	0.0041	J	0.0038	0.0045	mg/Kg-dry	1	4/6/2021 21:59
Anthracene	U		0.0041	0.0045	mg/Kg-dry	1	4/6/2021 21:59
Benzo(a)anthracene	U		0.0044	0.0045	mg/Kg-dry	1	4/6/2021 21:59
Benzo(a)pyrene	U		0.0036	0.0045	mg/Kg-dry	1	4/6/2021 21:59
Benzo(b)fluoranthene	U		0.0038	0.0045	mg/Kg-dry	1	4/6/2021 21:59
Benzo(k)fluoranthene	U		0.0037	0.0045	mg/Kg-dry	1	4/6/2021 21:59
Chrysene	U		0.0042	0.0045	mg/Kg-dry	1	4/6/2021 21:59
Dibenzo(a,h)anthracene	U		0.0037	0.0045	mg/Kg-dry	1	4/6/2021 21:59
Fluoranthene	0.0055		0.0036	0.0045	mg/Kg-dry	1	4/6/2021 21:59

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

ALS Group, USA

Date: 14-Apr-21

Client: Entrada Consulting Group
Project: UP 48-29 Spill
Sample ID: UP4829-SS1
Collection Date: 4/1/2021 12:00 PM

Work Order: 21040301
Lab ID: 21040301-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	0.0057		0.0035	0.0045	mg/Kg-dry	1	4/6/2021 21:59
Indeno(1,2,3-cd)pyrene	U		0.0040	0.0045	mg/Kg-dry	1	4/6/2021 21:59
Naphthalene	0.046		0.0044	0.0045	mg/Kg-dry	1	4/6/2021 21:59
Pyrene	0.0064		0.0043	0.0045	mg/Kg-dry	1	4/6/2021 21:59
Surr: 2-Fluorobiphenyl	80.7			20-140	%REC	1	4/6/2021 21:59
Surr: 4-Terphenyl-d14	71.9			22-172	%REC	1	4/6/2021 21:59
Surr: Nitrobenzene-d5	76.3			28-140	%REC	1	4/6/2021 21:59
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C		Prep: SW5035 / 4/7/21		Analyst: MF
Benzene	U		0.017	0.035	mg/Kg-dry	1	4/12/2021 16:47
Ethylbenzene	U		0.0074	0.035	mg/Kg-dry	1	4/12/2021 16:47
m,p-Xylene	U		0.047	0.070	mg/Kg-dry	1	4/12/2021 16:47
o-Xylene	U		0.014	0.035	mg/Kg-dry	1	4/12/2021 16:47
Toluene	U		0.0096	0.035	mg/Kg-dry	1	4/12/2021 16:47
Xylenes, Total	U		0.047	0.11	mg/Kg-dry	1	4/12/2021 16:47
Surr: 1,2-Dichloroethane-d4	99.5			70-130	%REC	1	4/12/2021 16:47
Surr: 4-Bromofluorobenzene	103			70-130	%REC	1	4/12/2021 16:47
Surr: Dibromofluoromethane	95.8			70-130	%REC	1	4/12/2021 16:47
Surr: Toluene-d8	98.0			70-130	%REC	1	4/12/2021 16:47
ELECTRICAL CONDUCTIVITY (SAR)			Method: USDA H60 METHOD 2		Prep: USDA Method 20B / 4/13/21		Analyst: QTN
Electrical Conductivity @ Saturation	7.3		0.011	0.10	mmhos/cm @25°	20	4/13/2021 18:02
CHROMIUM, TRIVALENT			Method: CALCULATION				Analyst: JB
Chromium, Trivalent	9.3		0.93	1.1	mg/Kg-dry	1	4/13/2021 09:10
CHROMIUM, HEXAVALENT			Method: SW7196A		Prep: SW3060A / 4/8/21		Analyst: KTP
Chromium, Hexavalent	U		0.93	1.1	mg/Kg-dry	1	4/12/2021 13:40
MOISTURE			Method: SW3550C				Analyst: KTP
Moisture	8.6		0.10	0.10	% of sample	1	4/8/2021 10:43
SOIL PH MEASURED IN WATER AT NOTED TEMP.			Method: SW9045D		Prep: SW9045D / 4/7/21		Analyst: QTN
pH	9.44		0.10	0.10	s.u.	1	4/8/2021 11:12
Temperature	20.4		0.10	0.10	°C	1	4/8/2021 11:12

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

ALS Group, USA

Date: 14-Apr-21

Client: Entrada Consulting Group
Project: UP 48-29 Spill
Sample ID: UP4829-BG1
Collection Date: 4/1/2021 12:15 PM

Work Order: 21040301
Lab ID: 21040301-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA							
Mercury	U		0.012	0.018	mg/Kg-dry	1	4/8/2021 13:05
METALS BY ICP-MS							
Arsenic	4.6		0.048	0.40	mg/Kg-dry	1	4/8/2021 22:26
Barium	220		3.7	4.0	mg/Kg-dry	10	4/9/2021 15:06
Boron	7.1		1.5	1.6	mg/Kg-dry	1	4/8/2021 22:26
Cadmium	0.19		0.024	0.16	mg/Kg-dry	1	4/8/2021 22:26
Chromium	6.6		0.18	0.40	mg/Kg-dry	1	4/8/2021 22:26
Copper	7.2		0.40	0.40	mg/Kg-dry	1	4/8/2021 22:26
Lead	12		0.19	0.40	mg/Kg-dry	1	4/8/2021 22:26
Nickel	8.0		0.21	0.40	mg/Kg-dry	1	4/8/2021 22:26
Selenium	0.39	J	0.37	0.40	mg/Kg-dry	1	4/8/2021 22:26
Silver	U		0.053	0.40	mg/Kg-dry	1	4/8/2021 22:26
Zinc	41		0.79	0.81	mg/Kg-dry	1	4/8/2021 22:26
SOLUBLE CATIONS FOR SAR							
Calcium	77		2.5	5.0	mg/L	10	4/13/2021 17:14
Magnesium	10		0.50	2.0	mg/L	10	4/13/2021 17:14
Sodium	34		1.8	2.0	mg/L	10	4/13/2021 17:14
SODIUM ADSORPTION RATIO							
Sodium Adsorption Ratio	0.98		0.010	0.010	none	1	4/13/2021
ELECTRICAL CONDUCTIVITY (SAR)							
Electrical Conductivity @ Saturation	0.67		0.011	0.10	mmhos/cm @25°	20	4/13/2021 18:02
CHROMIUM, TRIVALENT							
Chromium, Trivalent	6.6		0.92	1.1	mg/Kg-dry	1	4/13/2021 09:10
CHROMIUM, HEXAVALENT							
Chromium, Hexavalent	U		0.92	1.1	mg/Kg-dry	1	4/12/2021 13:40
MOISTURE							
Moisture	7.6		0.10	0.10	% of sample	1	4/8/2021 11:15
SOIL PH MEASURED IN WATER AT NOTED TEMP.							
pH	8.44		0.10	0.10	s.u.	1	4/8/2021 11:12
Temperature	20.8		0.10	0.10	°C	1	4/8/2021 11:12

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

Client: Entrada Consulting Group
Work Order: 21040301
Project: UP 48-29 Spill

QC BATCH REPORT

Batch ID: **174542** Instrument ID **GC8** Method: **SW8015D**

MBLK				Sample ID: DBLKS1-174542-174542		Units: mg/Kg		Analysis Date: 4/6/2021 01:02 PM		
Client ID:		Run ID: GC8_210405A		SeqNo: 7280600		Prep Date: 4/5/2021		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	U	10								
Surr: 4-Terphenyl-d14	2.079	0	3.33	0	62.4	33-111	0			

LCS				Sample ID: DLCSS1-174542-174542		Units: mg/Kg		Analysis Date: 4/6/2021 01:42 PM		
Client ID:		Run ID: GC8_210405A		SeqNo: 7280601		Prep Date: 4/5/2021		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	285.5	10	333	0	85.7	64-130	0			
Surr: 4-Terphenyl-d14	1.835	0	3.33	0	55.1	33-111	0			

MS				Sample ID: 21040231-01A MS		Units: mg/Kg		Analysis Date: 4/6/2021 07:27 PM		
Client ID:		Run ID: GC8_210405A		SeqNo: 7281393		Prep Date: 4/5/2021		DF: 10		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	425.1	98	324.8	191	72.1	64-130	0			
Surr: 4-Terphenyl-d14	1.671	0	3.248	0	51.5	33-111	0			

MSD				Sample ID: 21040231-01A MSD		Units: mg/Kg		Analysis Date: 4/6/2021 08:07 PM		
Client ID:		Run ID: GC8_210405A		SeqNo: 7281394		Prep Date: 4/5/2021		DF: 10		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	436.3	99	328	191	74.8	64-130	425.1	2.6	30	
Surr: 4-Terphenyl-d14	1.707	0	3.28	0	52.1	33-111	1.671	2.14	30	

The following samples were analyzed in this batch: 21040301-01A

Client: Entrada Consulting Group
 Work Order: 21040301
 Project: UP 48-29 Spill

QC BATCH REPORT

Batch ID: **174773** Instrument ID **GC9** Method: **SW8015D**

MBLK		Sample ID: MBLK-174773-174773				Units: µg/Kg-dry		Analysis Date: 4/8/2021 12:23 PM		
Client ID:		Run ID: GC9_210408A				SeqNo: 7289257		Prep Date: 4/7/2021		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	5006	0	5000	0	100	71-123	0			

LCS		Sample ID: LCS-174773-174773				Units: µg/Kg-dry		Analysis Date: 4/8/2021 11:36 AM		
Client ID:		Run ID: GC9_210408A				SeqNo: 7289276		Prep Date: 4/7/2021		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	226600	5,000	250000	0	90.6	71-123	0			
Surr: Toluene-d8	4565	0	5000	0	91.3	71-123	0			

MS		Sample ID: 21040349-01A MS				Units: µg/Kg-dry		Analysis Date: 4/8/2021 03:05 PM		
Client ID:		Run ID: GC9_210408A				SeqNo: 7289264		Prep Date: 4/7/2021		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	283900	6,800	342100	786	82.8	71-123	0			
Surr: Toluene-d8	7216	0	6841	0	105	71-123	0			

MSD		Sample ID: 21040349-01A MSD				Units: µg/Kg-dry		Analysis Date: 4/8/2021 03:28 PM		
Client ID:		Run ID: GC9_210408A				SeqNo: 7289265		Prep Date: 4/7/2021		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	309000	7,100	353400	786	87.2	71-123	283900	8.44	30	
Surr: Toluene-d8	6765	0	7069	0	95.7	71-123	7216	6.46	30	

The following samples were analyzed in this batch: 21040301-01A

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

Client: Entrada Consulting Group
 Work Order: 21040301
 Project: UP 48-29 Spill

QC BATCH REPORT

Batch ID: **174688** Instrument ID **HG4** Method: **SW7471B**

MBLK		Sample ID: MBLK-174688-174688				Units: mg/Kg		Analysis Date: 4/7/2021 03:29 PM		
Client ID:		Run ID: HG4_210407A				SeqNo: 7284625		Prep Date: 4/7/2021		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-174688-174688				Units: mg/Kg		Analysis Date: 4/7/2021 03:31 PM		
Client ID:		Run ID: HG4_210407A				SeqNo: 7284626		Prep Date: 4/7/2021		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1692 0.020 0.1665 0 102 80-120 0

MS		Sample ID: 21040154-10BMS				Units: mg/Kg		Analysis Date: 4/7/2021 04:03 PM		
Client ID:		Run ID: HG4_210407A				SeqNo: 7284643		Prep Date: 4/7/2021		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1447 0.016 0.1314 0.009432 103 75-125 0

MSD		Sample ID: 21040154-10BMSD				Units: mg/Kg		Analysis Date: 4/7/2021 04:04 PM		
Client ID:		Run ID: HG4_210407A				SeqNo: 7284644		Prep Date: 4/7/2021		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.131 0.015 0.1289 0.009432 94.3 75-125 0.1447 9.99 35

The following samples were analyzed in this batch:

21040301-01A

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

Client: Entrada Consulting Group
 Work Order: 21040301
 Project: UP 48-29 Spill

QC BATCH REPORT

Batch ID: **174744** Instrument ID **HG4** Method: **SW7471B**

MBLK		Sample ID: MBLK-174744-174744				Units: mg/Kg		Analysis Date: 4/8/2021 12:58 PM		
Client ID:		Run ID: HG4_210408A				SeqNo: 7287821		Prep Date: 4/8/2021		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	U	0.020								

LCS		Sample ID: LCS-174744-174744				Units: mg/Kg		Analysis Date: 4/8/2021 01:00 PM		
Client ID:		Run ID: HG4_210408A				SeqNo: 7287822		Prep Date: 4/8/2021		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1675	0.020	0.1665	0	101	80-120	0			

MS		Sample ID: 21040317-07CMS				Units: mg/Kg		Analysis Date: 4/8/2021 01:21 PM		
Client ID:		Run ID: HG4_210408A				SeqNo: 7287834		Prep Date: 4/8/2021		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1342	0.017	0.1382	0.001004	96.4	75-125	0			

MSD		Sample ID: 21040317-07CMSD				Units: mg/Kg		Analysis Date: 4/8/2021 01:23 PM		
Client ID:		Run ID: HG4_210408A				SeqNo: 7287835		Prep Date: 4/8/2021		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1366	0.017	0.1386	0.001004	97.9	75-125	0.1342	1.81	35	

The following samples were analyzed in this batch:

21040301-02A

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

Client: Entrada Consulting Group
 Work Order: 21040301
 Project: UP 48-29 Spill

QC BATCH REPORT

Batch ID: **174696** Instrument ID **ICPMS3** Method: **SW6020B**

MBLK Sample ID: MBLK-174696-174696				Units: mg/Kg		Analysis Date: 4/7/2021 06:23 PM				
Client ID:		Run ID: ICPMS3_210407B		SeqNo: 7284683		Prep Date: 4/7/2021		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								

LCS Sample ID: LCS-174696-174696				Units: mg/Kg		Analysis Date: 4/7/2021 06:25 PM				
Client ID:		Run ID: ICPMS3_210407B		SeqNo: 7284684		Prep Date: 4/7/2021		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	5.285	0.25	5	0	106	80-120	0			
Barium	5.289	0.25	5	0	106	80-120	0			
Cadmium	5.445	0.10	5	0	109	80-120	0			
Lead	5.302	0.25	5	0	106	80-120	0			
Nickel	5.604	0.25	5	0	112	80-120	0			
Selenium	5.089	0.25	5	0	102	80-120	0			
Silver	5.512	0.25	5	0	110	80-120	0			

LCS Sample ID: LCS-174696-174696				Units: mg/Kg		Analysis Date: 4/8/2021 03:14 PM				
Client ID:		Run ID: ICPMS3_210408B		SeqNo: 7288592		Prep Date: 4/7/2021		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium	5.966	0.25	5	0	119	80-120	0			
Copper	5.544	0.25	5	0	111	80-120	0			

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

Client: Entrada Consulting Group
 Work Order: 21040301
 Project: UP 48-29 Spill

QC BATCH REPORT

Batch ID: **174696** Instrument ID **ICPMS3** Method: **SW6020B**

MS				Sample ID: 21040450-05CMS			Units: mg/Kg		Analysis Date: 4/7/2021 07:19 PM	
Client ID:		Run ID: ICPMS3_210407B			SeqNo: 7284715		Prep Date: 4/7/2021		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	15.54	0.32	6.494	10.07	84.2	75-125	0			
Barium	161.4	0.32	6.494	226.9	-1010	75-125	0			SEO
Cadmium	5.577	0.13	6.494	0.3535	80.4	75-125	0			
Chromium	19.08	0.32	6.494	13.45	86.7	75-125	0			
Copper	22.87	0.32	6.494	15.79	109	75-125	0			
Lead	41.6	0.32	6.494	24.4	265	75-125	0			S
Nickel	43.77	0.32	6.494	22.66	325	75-125	0			S
Selenium	6.152	0.32	6.494	0.3627	89.2	75-125	0			
Silver	4.839	0.32	6.494	0.03495	74	75-125	0			S
Zinc	98.16	0.65	6.494	105.4	-112	75-125	0			SO

MSD				Sample ID: 21040450-05CMSD			Units: mg/Kg		Analysis Date: 4/7/2021 07:21 PM	
Client ID:		Run ID: ICPMS3_210407B			SeqNo: 7284716		Prep Date: 4/7/2021		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	11.69	0.32	6.443	10.07	25.2	75-125	15.54	28.2	20	SR
Barium	129.5	0.32	6.443	226.9	-1510	75-125	161.4	22	20	SREO
Cadmium	5.667	0.13	6.443	0.3535	82.5	75-125	5.577	1.59	20	
Chromium	15.13	0.32	6.443	13.45	26.1	75-125	19.08	23.1	20	SR
Copper	16.44	0.32	6.443	15.79	10.1	75-125	22.87	32.7	20	SR
Lead	24.33	0.32	6.443	24.4	-1.08	75-125	41.6	52.4	20	SR
Nickel	32.63	0.32	6.443	22.66	155	75-125	43.77	29.1	20	SR
Selenium	6.184	0.32	6.443	0.3627	90.3	75-125	6.152	0.52	20	
Silver	4.922	0.32	6.443	0.03495	75.8	75-125	4.839	1.7	20	
Zinc	98.63	0.64	6.443	105.4	-106	75-125	98.16	0.476	20	SO

The following samples were analyzed in this batch:

21040301-01A

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

Client: Entrada Consulting Group
 Work Order: 21040301
 Project: UP 48-29 Spill

QC BATCH REPORT

Batch ID: **174746** Instrument ID **ICPMS3** Method: **SW6020B**

Sample ID: MBLK-174746-174746				Units: mg/Kg			Analysis Date: 4/8/2021 10:22 PM			
Client ID:		Run ID: ICPMS3_210408B			SeqNo: 7289551		Prep Date: 4/8/2021		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	U	0.25								
Barium	U	0.25								
Boron	U	1.0								
Cadmium	U	0.10								
Chromium	U	0.25								
Copper	U	0.25								
Lead	U	0.25								
Nickel	U	0.25								
Silver	U	0.25								
Zinc	U	0.50								

MBLK				Sample ID: MBLK-174746-174746				Units: mg/Kg		Analysis Date: 4/9/2021 03:00 PM		
Client ID:			Run ID: ICPMS3_210409B				SeqNo: 7291739		Prep Date: 4/8/2021		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual		
Selenium	U	0.25										

LCS				Sample ID: LCS-174746-174746				Units: mg/Kg			Analysis Date: 4/8/2021 10:24 PM		
Client ID:			Run ID: ICPMS3_210408B				SeqNo: 7289552			Prep Date: 4/8/2021		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual			
Arsenic	5.018	0.25	5	0	100	80-120	0						
Barium	5.178	0.25	5	0	104	80-120	0						
Boron	25.5	1.0	25	0	102	80-120	0						
Cadmium	5.222	0.10	5	0	104	80-120	0						
Chromium	5.328	0.25	5	0	107	80-120	0						
Copper	5.28	0.25	5	0	106	80-120	0						
Lead	5.13	0.25	5	0	103	80-120	0						
Nickel	5.155	0.25	5	0	103	80-120	0						
Selenium	5.138	0.25	5	0	103	80-120	0						
Silver	5.064	0.25	5	0	101	80-120	0						
Zinc	5.234	0.50	5	0	105	80-120	0						

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

Client: Entrada Consulting Group
Work Order: 21040301
Project: UP 48-29 Spill

QC BATCH REPORT

Batch ID: **174746** Instrument ID **ICPMS3** Method: **SW6020B**

MS				Sample ID: 21040560-03AMS			Units: mg/Kg		Analysis Date: 4/8/2021 10:46 PM		
Client ID:			Run ID: ICPMS3_210408B			SeqNo: 7289564		Prep Date: 4/8/2021		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Arsenic	13.09	0.34	6.794	7.043	89	75-125	0				
Barium	21.49	0.34	6.794	14.39	105	75-125	0				
Boron	37.66	1.4	33.97	2.55	103	75-125	0				
Cadmium	6.034	0.14	6.794	0.01359	88.6	75-125	0				
Chromium	16.04	0.34	6.794	9.851	91.1	75-125	0				
Copper	15.32	0.34	6.794	9.973	78.8	75-125	0				
Lead	12.2	0.34	6.794	4.725	110	75-125	0				
Nickel	16.06	0.34	6.794	9.632	94.6	75-125	0				
Selenium	5.862	0.34	6.794	0.2929	82	75-125	0				
Silver	5.773	0.34	6.794	-0.02261	85.3	75-125	0				
Zinc	27.25	0.68	6.794	21.12	90.1	75-125	0				

MSD				Sample ID: 21040560-03AMSD			Units: mg/Kg		Analysis Date: 4/8/2021 10:48 PM		
Client ID:		Run ID: ICPMS3_210408B			SeqNo: 7289565		Prep Date: 4/8/2021		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Arsenic	13.04	0.33	6.649	7.043	90.1	75-125	13.09	0.42	20	S	
Barium	23.65	0.33	6.649	14.39	139	75-125	21.49	9.57	20		
Boron	37.94	1.3	33.24	2.55	106	75-125	37.66	0.751	20		
Cadmium	5.685	0.13	6.649	0.01359	85.3	75-125	6.034	5.96	20		
Chromium	16.65	0.33	6.649	9.851	102	75-125	16.04	3.71	20		
Copper	15.82	0.33	6.649	9.973	87.9	75-125	15.32	3.17	20		
Lead	11.69	0.33	6.649	4.725	105	75-125	12.2	4.22	20		
Nickel	17.24	0.33	6.649	9.632	114	75-125	16.06	7.08	20		
Selenium	5.913	0.33	6.649	0.2929	84.5	75-125	5.862	0.878	20		
Silver	5.42	0.33	6.649	-0.02261	81.9	75-125	5.773	6.31	20		
Zinc	29.77	0.66	6.649	21.12	130	75-125	27.25	8.85	20		S

The following samples were analyzed in this batch:

21040301-02A

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

Client: Entrada Consulting Group
 Work Order: 21040301
 Project: UP 48-29 Spill

QC BATCH REPORT

Batch ID: **174838** Instrument ID **ICPMS3** Method: **SW6020B**

MBLK				Sample ID: MBLK-174838-174838				Units: mg/Kg			Analysis Date: 4/9/2021 09:06 PM		
Client ID:			Run ID: ICPMS3_210409B				SeqNo: 7293981		Prep Date: 4/9/2021		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual			
Cadmium	U	0.10											
Chromium	U	0.25											
Copper	U	0.25											
Lead	U	0.25											
Nickel	U	0.25											
Selenium	U	0.25											
Zinc	U	0.50											

LCS				Sample ID: LCS-174838-174838			Units: mg/Kg		Analysis Date: 4/9/2021 09:08 PM		
Client ID:			Run ID: ICPMS3_210409B			SeqNo: 7293982		Prep Date: 4/9/2021		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Cadmium	5.262	0.10	5	0	105	80-120	0				
Chromium	5.231	0.25	5	0	105	80-120	0				
Copper	5.184	0.25	5	0	104	80-120	0				
Lead	5.346	0.25	5	0	107	80-120	0				
Nickel	5.162	0.25	5	0	103	80-120	0				
Selenium	5.207	0.25	5	0	104	80-120	0				
Zinc	4.997	0.50	5	0	99.9	80-120	0				

MS				Sample ID: 21040300-01AMS			Units: mg/Kg		Analysis Date: 4/9/2021 09:22 PM		
Client ID:			Run ID: ICPMS3_210409B			SeqNo: 7293990		Prep Date: 4/9/2021		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Cadmium	7.11	0.15	7.74	0.5399	84.9	75-125		0			
Chromium	16.9	0.39	7.74	7.952	116	75-125		0			
Copper	14.99	0.39	7.74	8.268	86.8	75-125		0			
Lead	21	0.39	7.74	11.6	122	75-125		0			
Nickel	17.66	0.39	7.74	10.57	91.5	75-125		0			
Selenium	7.498	0.39	7.74	0.7467	87.2	75-125		0			
Zinc	50.37	0.77	7.74	41.16	119	75-125		0		O	

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

Client: Entrada Consulting Group
Work Order: 21040301
Project: UP 48-29 Spill

QC BATCH REPORT

Batch ID: **174838** Instrument ID **ICPMS3** Method: **SW6020B**

MSD				Sample ID: 21040300-01AMSD			Units: mg/Kg		Analysis Date: 4/9/2021 09:23 PM	
Client ID:		Run ID: ICPMS3_210409B			SeqNo: 7293991		Prep Date: 4/9/2021		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cadmium	6.488	0.14	7.153	0.5399	83.2	75-125	7.11	9.14	20	
Chromium	15.4	0.36	7.153	7.952	104	75-125	16.9	9.25	20	
Copper	13.94	0.36	7.153	8.268	79.2	75-125	14.99	7.27	20	
Lead	19.54	0.36	7.153	11.6	111	75-125	21	7.23	20	
Nickel	16.01	0.36	7.153	10.57	76.1	75-125	17.66	9.75	20	
Selenium	6.565	0.36	7.153	0.7467	81.3	75-125	7.498	13.3	20	
Zinc	47.9	0.72	7.153	41.16	94.1	75-125	50.37	5.04	20	O

The following samples were analyzed in this batch: 21040301-01A

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

Client: Entrada Consulting Group
Work Order: 21040301
Project: UP 48-29 Spill

QC BATCH REPORT

Batch ID: **174981** Instrument ID **ICPMS3** Method: **SW6020B**

DUP		Sample ID: 21040301-02ADUP				Units: mg/L		Analysis Date: 4/13/2021 05:15 PM		
Client ID: UP4829-BG1		Run ID: ICPMS3_210413A				SeqNo: 7301657		Prep Date: 4/13/2021		DF: 10
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	108.2	5.0	0	0	0	0-0	76.67	34.1		
Magnesium	13.31	2.0	0	0	0	0-0	10.08	27.6		
Sodium	46.53	2.0	0	0	0	0-0	34.31	30.2		

The following samples were analyzed in this batch: 21040301-01A 21040301-02A

Batch ID: **174981** Instrument ID **SAR** Method: **USDA H60 Method**

DUP		Sample ID: 21040301-02ADUP				Units: none		Analysis Date: 4/13/2021		
Client ID: UP4829-BG1		Run ID: SAR_210413A				SeqNo: 7301692		Prep Date: 4/13/2021		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	1.123	0.010	0	0	0		0.9782	13.8	50	

The following samples were analyzed in this batch: 21040301-01A 21040301-02A

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

Client: Entrada Consulting Group
 Work Order: 21040301
 Project: UP 48-29 Spill

QC BATCH REPORT

Batch ID: **174625** Instrument ID **SVMS6** Method: **SW8270E**

MBLK				Sample ID: SBLKS1-174625-174625				Units: µg/Kg		Analysis Date: 4/6/2021 04:17 PM		
Client ID:			Run ID: SVMS6_210406A			SeqNo: 7281894		Prep Date: 4/6/2021		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual		
Acenaphthene	U	4.2										
Anthracene	U	4.2										
Benzo(a)anthracene	U	4.2										
Benzo(a)pyrene	U	4.2										
Benzo(b)fluoranthene	U	4.2										
Benzo(k)fluoranthene	U	4.2										
Chrysene	U	4.2										
Dibenzo(a,h)anthracene	U	4.2										
Fluoranthene	U	4.2										
Fluorene	U	4.2										
Indeno(1,2,3-cd)pyrene	U	4.2										
Naphthalene	U	4.2										
Pyrene	U	4.2										
Surr: 2-Fluorobiphenyl	3110	0	3333	0	93.3	20-140		0				
Surr: 4-Terphenyl-d14	2917	0	3333	0	87.5	22-172		0				
Surr: Nitrobenzene-d5	2795	0	3333	0	83.9	28-140		0				

LCS				Sample ID: SLCSS1-174625-174625		Units: µg/Kg		Analysis Date: 4/6/2021 04:32 PM		
Client ID:		Run ID: SVMS6_210406A			SeqNo: 7281895		Prep Date: 4/6/2021		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1163	4.2	1333		0	87.2	40-140	0		
Anthracene	1230	4.2	1333		0	92.3	40-140	0		
Benzo(a)anthracene	1216	4.2	1333		0	91.2	40-140	0		
Benzo(a)pyrene	1161	4.2	1333		0	87.1	40-140	0		
Benzo(b)fluoranthene	1183	4.2	1333		0	88.7	40-140	0		
Benzo(k)fluoranthene	1156	4.2	1333		0	86.7	40-140	0		
Chrysene	1202	4.2	1333		0	90.2	40-140	0		
Dibenzo(a,h)anthracene	1321	4.2	1333		0	99.1	40-140	0		
Fluoranthene	1171	4.2	1333		0	87.9	40-140	0		
Fluorene	1145	4.2	1333		0	85.9	40-140	0		
Indeno(1,2,3-cd)pyrene	1389	4.2	1333		0	104	40-140	0		
Naphthalene	1234	4.2	1333		0	92.6	40-140	0		
Pyrene	937.5	4.2	1333		0	70.3	40-140	0		
Surr: 2-Fluorobiphenyl	2985	0	3333		0	89.6	20-140	0		
Surr: 4-Terphenyl-d14	2562	0	3333		0	76.9	22-172	0		
Surr: Nitrobenzene-d5	2168	0	3333		0	65	28-140	0		

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

Client: Entrada Consulting Group
 Work Order: 21040301
 Project: UP 48-29 Spill

QC BATCH REPORT

Batch ID: **174625** Instrument ID **SVMS6** Method: **SW8270E**

MS				Sample ID: 21040317-07C MS		Units: µg/Kg		Analysis Date: 4/6/2021 04:48 PM		
Client ID:		Run ID: SVMS6_210406A		SeqNo: 7281896		Prep Date: 4/6/2021		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1177	4.1	1298	0	90.7	40-140	0			
Anthracene	1210	4.1	1298	0	93.3	40-140	0			
Benzo(a)anthracene	1174	4.1	1298	4.651	90.1	40-140	0			
Benzo(a)pyrene	1149	4.1	1298	3.299	88.3	40-140	0			
Benzo(b)fluoranthene	1204	4.1	1298	2.623	92.6	40-140	0			
Benzo(k)fluoranthene	1139	4.1	1298	0	87.8	40-140	0			
Chrysene	1177	4.1	1298	2.961	90.5	40-140	0			
Dibenzo(a,h)anthracene	1196	4.1	1298	0	92.2	40-140	0			
Fluoranthene	1142	4.1	1298	3.074	87.7	40-140	0			
Fluorene	1209	4.1	1298	0	93.2	40-140	0			
Indeno(1,2,3-cd)pyrene	1210	4.1	1298	0	93.3	40-140	0			
Naphthalene	1235	4.1	1298	0	95.1	40-140	0			
Pyrene	1130	4.1	1298	5.182	86.6	40-140	0			
Surr: 2-Fluorobiphenyl	2997	0	3245	0	92.4	20-140	0			
Surr: 4-Terphenyl-d14	2928	0	3245	0	90.2	22-172	0			
Surr: Nitrobenzene-d5	2599	0	3245	0	80.1	28-140	0			

MSD				Sample ID: 21040317-07C MSD		Units: µg/Kg		Analysis Date: 4/6/2021 05:03 PM		
Client ID:		Run ID: SVMS6_210406A		SeqNo: 7281897		Prep Date: 4/6/2021		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1164	4.0	1269	0	91.7	40-140	1177	1.16	30	
Anthracene	1345	4.0	1269	0	106	40-140	1210	10.5	30	
Benzo(a)anthracene	1178	4.0	1269	4.651	92.5	40-140	1174	0.36	30	
Benzo(a)pyrene	1164	4.0	1269	3.299	91.5	40-140	1149	1.29	30	
Benzo(b)fluoranthene	1156	4.0	1269	2.623	90.9	40-140	1204	4.02	30	
Benzo(k)fluoranthene	1107	4.0	1269	0	87.3	40-140	1139	2.84	30	
Chrysene	1179	4.0	1269	2.961	92.7	40-140	1177	0.148	30	
Dibenzo(a,h)anthracene	1247	4.0	1269	0	98.3	40-140	1196	4.17	30	
Fluoranthene	1293	4.0	1269	3.074	102	40-140	1142	12.4	30	
Fluorene	1132	4.0	1269	0	89.2	40-140	1209	6.57	30	
Indeno(1,2,3-cd)pyrene	1231	4.0	1269	0	97	40-140	1210	1.68	30	
Naphthalene	1214	4.0	1269	0	95.7	40-140	1235	1.72	30	
Pyrene	1083	4.0	1269	5.182	85	40-140	1130	4.17	30	
Surr: 2-Fluorobiphenyl	2694	0	3173	0	84.9	20-140	2997	10.7	30	
Surr: 4-Terphenyl-d14	2859	0	3173	0	90.1	22-172	2928	2.4	30	
Surr: Nitrobenzene-d5	2830	0	3173	0	89.2	28-140	2599	8.52	30	

The following samples were analyzed in this batch:

21040301-01A

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

Client: Entrada Consulting Group
 Work Order: 21040301
 Project: UP 48-29 Spill

QC BATCH REPORT

Batch ID: 174724 Instrument ID VMS10 Method: SW8260C

MBLK Sample ID: MBLK-174724-174724				Units: µg/Kg-dry		Analysis Date: 4/9/2021 11:55 AM				
Client ID:		Run ID: VMS10_210409A		SeqNo: 7290842		Prep Date: 4/7/2021		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	U	30	0	0	0	0-0	0			
Ethylbenzene	U	30	0	0	0	0-0	0			
m,p-Xylene	U	60	0	0	0	0-0	0			
o-Xylene	U	30	0	0	0	0-0	0			
Toluene	U	30	0	0	0	0-0	0			
Xylenes, Total	U	90	0	0	0	0-0	0			
Surr: 1,2-Dichloroethane-d4	1041	0	1000	0	104	70-130	0			
Surr: 4-Bromofluorobenzene	1000	0	1000	0	100	70-130	0			
Surr: Dibromofluoromethane	956.5	0	1000	0	95.6	70-130	0			
Surr: Toluene-d8	998.5	0	1000	0	99.8	70-130	0			

LCS Sample ID: LCS-174724-174724				Units: µg/Kg-dry		Analysis Date: 4/9/2021 11:05 AM				
Client ID:		Run ID: VMS10_210409A		SeqNo: 7290840		Prep Date: 4/7/2021		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1086	30	1000	0	109	75-125	0			
Ethylbenzene	1107	30	1000	0	111	75-125	0			
m,p-Xylene	2247	60	2000	0	112	80-125	0			
o-Xylene	1102	30	1000	0	110	75-125	0			
Toluene	1097	30	1000	0	110	70-125	0			
Xylenes, Total	3350	90	3000	0	112	75-125	0			
Surr: 1,2-Dichloroethane-d4	988.5	0	1000	0	98.8	70-130	0			
Surr: 4-Bromofluorobenzene	1022	0	1000	0	102	70-130	0			
Surr: Dibromofluoromethane	1006	0	1000	0	101	70-130	0			
Surr: Toluene-d8	1010	0	1000	0	101	70-130	0			

MS Sample ID: 21040349-01A MS				Units: µg/Kg-dry		Analysis Date: 4/10/2021 04:23 AM				
Client ID:		Run ID: VMS10_210409B		SeqNo: 7292580		Prep Date: 4/7/2021		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1279	41	1368	0	93.5	75-125	0			
Ethylbenzene	1206	41	1368	0	88.1	75-125	0			
m,p-Xylene	2460	82	2736	0	89.9	80-125	0			
o-Xylene	1209	41	1368	0	88.3	75-125	0			
Toluene	1213	41	1368	0	88.6	70-125	0			
Xylenes, Total	3669	120	4105	0	89.4	75-125	0			
Surr: 1,2-Dichloroethane-d4	1383	0	1368	0	101	70-130	0			
Surr: 4-Bromofluorobenzene	1415	0	1368	0	103	70-130	0			
Surr: Dibromofluoromethane	1357	0	1368	0	99.2	70-130	0			
Surr: Toluene-d8	1367	0	1368	0	99.9	70-130	0			

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

Client: Entrada Consulting Group
 Work Order: 21040301
 Project: UP 48-29 Spill

QC BATCH REPORT

Batch ID: **174724** Instrument ID **VMS10** Method: **SW8260C**

MSD				Sample ID: 21040349-01A MSD			Units: µg/Kg-dry		Analysis Date: 4/10/2021 04:40 AM	
Client ID:		Run ID: VMS10_210409B			SeqNo: 7292581		Prep Date: 4/7/2021		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1313	42	1414	0	92.9	75-125	1279	2.57	30	
Ethylbenzene	1256	42	1414	0	88.8	75-125	1206	4.06	30	
m,p-Xylene	2528	85	2827	0	89.4	80-125	2460	2.74	30	
o-Xylene	1270	42	1414	0	89.8	75-125	1209	4.95	30	
Toluene	1236	42	1414	0	87.4	70-125	1213	1.85	30	
Xylenes, Total	3799	130	4241	0	89.6	75-125	3669	3.47	30	
Surr: 1,2-Dichloroethane-d4	1436	0	1414	0	102	70-130	1383	3.71	30	
Surr: 4-Bromofluorobenzene	1463	0	1414	0	103	70-130	1415	3.32	30	
Surr: Dibromofluoromethane	1409	0	1414	0	99.6	70-130	1357	3.77	30	
Surr: Toluene-d8	1407	0	1414	0	99.5	70-130	1367	2.92	30	

The following samples were analyzed in this batch:

21040301-01A

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

Client: Entrada Consulting Group
Work Order: 21040301
Project: UP 48-29 Spill

QC BATCH REPORT

Batch ID: **174703** Instrument ID **WETCHEM** Method: **SW9045D**

LCS					Sample ID: LCS-174703-174703					Units: s.u.			Analysis Date: 4/8/2021 11:12 AM				
Client ID:					Run ID: WETCHEM_210408F					SeqNo: 7287025			Prep Date: 4/7/2021			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: 21040300-01A DUP				Units: s.u.		Analysis Date: 4/8/2021 11:12 AM			
Client ID:				Run ID: WETCHEM_210408F				SeqNo: 7287030		Prep Date: 4/7/2021		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual		
pH		7.96	0.10	0	0	0	0-0	8.04	1	20			
Temperature		20.6	0.10	0	0	0		20.7	0.484				

The following samples were analyzed in this batch:

21040301-01A

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

Client: Entrada Consulting Group
Work Order: 21040301
Project: UP 48-29 Spill

QC BATCH REPORT

Batch ID: **174732** Instrument ID **WETCHEM** Method: **SW9045D**

LCS		Sample ID: LCS-174732-174732				Units: s.u.		Analysis Date: 4/8/2021 11:12 AM		
Client ID:		Run ID: WETCHEM_210408G				SeqNo: 7287067		Prep Date: 4/7/2021		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH	4.03	0.10	4	0	101	90-110	0			
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DUP		Sample ID: 21040301-02A DUP				Units: s.u.		Analysis Date: 4/8/2021 11:12 AM		
Client ID: UP4829-BG1		Run ID: WETCHEM_210408G				SeqNo: 7287070		Prep Date: 4/7/2021		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH	8.49	0.10	0	0	0	0-0	8.44	0.591	20	
Temperature	20.8	0.10	0	0	0		20.8	0		

DUP		Sample ID: 21040535-04A DUP				Units: s.u.		Analysis Date: 4/8/2021 11:12 AM		
Client ID:		Run ID: WETCHEM_210408G				SeqNo: 7287075		Prep Date: 4/7/2021		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH	7.53	0.10	0	0	0	0-0	7.57	0.53	20	
Temperature	20.8	0.10	0	0	0		20.7	0.482		

DUP		Sample ID: 21040535-13A DUP				Units: s.u.		Analysis Date: 4/8/2021 11:12 AM		
Client ID:		Run ID: WETCHEM_210408G				SeqNo: 7287081		Prep Date: 4/7/2021		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH	7.37	0.10	0	0	0	0-0	7.41	0.541	20	
Temperature	20.4	0.10	0	0	0		20.3	0.491		

The following samples were analyzed in this batch:

21040301-02A

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

Client: Entrada Consulting Group
 Work Order: 21040301
 Project: UP 48-29 Spill

QC BATCH REPORT

Batch ID: **174947** Instrument ID **WETCHEM** Method: **SW7196A**

MBLK		Sample ID: MBLK-174947-174947				Units: mg/Kg		Analysis Date: 4/12/2021 01:40 PM		
Client ID:		Run ID: WETCHEM_210412J				SeqNo: 7296878		Prep Date: 4/8/2021		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent U 1.0

LCS		Sample ID: LCS-174947-174947				Units: mg/Kg		Analysis Date: 4/12/2021 01:40 PM		
Client ID:		Run ID: WETCHEM_210412J				SeqNo: 7296879		Prep Date: 4/8/2021		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 4.35 1.0 5 0 87 80-120 0

MS		Sample ID: 21040300-01A MS				Units: mg/Kg		Analysis Date: 4/12/2021 01:40 PM		
Client ID:		Run ID: WETCHEM_210412J				SeqNo: 7296881		Prep Date: 4/8/2021		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent U 1.0 5 -0.57 11.4 75-125 0 S

MS		Sample ID: 21040300-01A MSI				Units: mg/Kg		Analysis Date: 4/12/2021 01:40 PM		
Client ID:		Run ID: WETCHEM_210412J				SeqNo: 7296883		Prep Date: 4/8/2021		DF: 100
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1735 100 1850 -0.57 93.8 75-125 0

MSD		Sample ID: 21040300-01A MSD				Units: mg/Kg		Analysis Date: 4/12/2021 01:40 PM		
Client ID:		Run ID: WETCHEM_210412J				SeqNo: 7296882		Prep Date: 4/8/2021		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 5.36 1.0 5 -0.57 119 75-125 0.19 186 20 R

The following samples were analyzed in this batch:

21040301-01A 21040301-02A

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

Client: Entrada Consulting Group
Work Order: 21040301
Project: UP 48-29 Spill

QC BATCH REPORT

Batch ID: **R313687** Instrument ID **MOIST** Method: **SW3550C**

MBLK		Sample ID: WBLKS-R313687				Units: % of sample		Analysis Date: 4/8/2021 10:43 AM		
Client ID:		Run ID: MOIST_210408A		SeqNo: 7290211		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-R313687				Units: % of sample		Analysis Date: 4/8/2021 10:43 AM		
Client ID:		Run ID: MOIST_210408A		SeqNo: 7290210		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 99.99 0.10 100 0 100 98-102 0

DUP		Sample ID: 21040097-01A DUP				Units: % of sample		Analysis Date: 4/8/2021 10:43 AM		
Client ID:		Run ID: MOIST_210408A		SeqNo: 7290189		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 11.8 0.10 0 0 0 0-0 11.65 1.28 10

DUP		Sample ID: 21040100-01A DUP				Units: % of sample		Analysis Date: 4/8/2021 10:43 AM		
Client ID:		Run ID: MOIST_210408A		SeqNo: 7290191		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 11.59 0.10 0 0 0 0-0 11.71 1.03 10

The following samples were analyzed in this batch:

21040301-01A

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

Client: Entrada Consulting Group
Work Order: 21040301
Project: UP 48-29 Spill

QC BATCH REPORT

Batch ID: **R313688** Instrument ID **MOIST** Method: **SW3550C**

MBLK		Sample ID: WBLKS-R313688				Units: % of sample		Analysis Date: 4/8/2021 11:15 AM		
Client ID:		Run ID: MOIST_210408B				SeqNo: 7290235		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-R313688				Units: % of sample		Analysis Date: 4/8/2021 11:15 AM		
Client ID:		Run ID: MOIST_210408B				SeqNo: 7290234		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	99.98	0.10	100		0	100	98-102	0		

DUP		Sample ID: 21040302-02A DUP				Units: % of sample		Analysis Date: 4/8/2021 11:15 AM		
Client ID:		Run ID: MOIST_210408B				SeqNo: 7290215		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	8.48	0.10	0		0	0	0-0	8.33	1.78	10

DUP		Sample ID: 21040317-07B DUP				Units: % of sample		Analysis Date: 4/8/2021 11:15 AM		
Client ID:		Run ID: MOIST_210408B				SeqNo: 7290219		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	10.85	0.10	0		0	0	0-0	10.81	0.369	10

The following samples were analyzed in this batch:

21040301-02A

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

Customer Information				Project Information				Parameter/Method Request for Analysis											
Purchase Order		Project Name	UP 48-29 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, STE 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															
e-Mail Address	tdobransky@entradainc.com	e-Mail Address		I															
				J															
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold		
1	UP4829-SS1	04/01/21	1200	Soil	8	2	X	X	X	X	X	X	X						
2	UP4829-BG1	04/01/21	1215	Soil	8	2				X	X	X	X						
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			

Sampler(s): Please Print & Sign Jason McLarty		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: <i>[Signature]</i>		Date: 4/2/21	Time:	Received by: <i>[Signature]</i>		Notes: Chevron Pricing Applies - Per Bruce Schlatter			
Relinquished by: <i>[Signature]</i>		Date: 4-2-21	Time: 1830	Received by (Laboratory): <i>[Signature]</i>		QC Package: (Check Box Below)			
Logged by (Laboratory): DCS		Date: 4/5/21	Time: 0945	Checked by (Laboratory):		Cooler Temp. 12/4.0°C	<input checked="" type="checkbox"/> Level II: Standard QC <input type="checkbox"/> Level III: Std QC + Raw Data <input type="checkbox"/> Level IV: SW846 CLP-Like Other:		
Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4 degrees C 9-5035									

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

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Sample Receipt Checklist

Client Name: **ENTRADA**

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

Work Order: **21040301**

Received by: **DS**

Checklist completed by **Diane Shaw**

05-Apr-21

Reviewed by: **Chad Whelton**

05-Apr-21

eSignature

Date

eSignature

Date

Matrices: **Soil**

Carrier name: **FedEx**

Shipping container/cooler in good condition? Yes ☒ No ☐ Not Present ☐

Custody seals intact on shipping container/cooler? Yes ☒ No ☐ Not Present ☐

Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒

Chain of custody present? Yes ☒ No ☐

Chain of custody signed when relinquished and received? Yes ☒ No ☐

Chain of custody agrees with sample labels? Yes ☒ No ☐

Samples in proper container/bottle? Yes ☒ No ☐

Sample containers intact? Yes ☒ No ☐

Sufficient sample volume for indicated test? Yes ☒ No ☐

All samples received within holding time? Yes ☒ No ☐

Container/Temp Blank temperature in compliance? Yes ☒ No ☐

Sample(s) received on ice? Yes ☒ No ☐

Temperature(s)/Thermometer(s): **4.0/4.0 c** **IR1**

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage: **4/5/2021 9:54:56 AM**

Water - VOA vials have zero headspace? Yes ☐ No ☐ No VOA vials submitted ☒

Water - pH acceptable upon receipt? Yes ☐ No ☐ N/A ☒

pH adjusted? Yes ☐ No ☐ N/A ☒

pH adjusted by: **-**

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction: