Legend

- Culvert
- Soil Sample Location
- Spill Area
- Spill Origin
- Well Location

0 150 300 Ft

1 inch = 150 ft

Project No: 021-205	**38 Header Spill** Scout Energy Partners NWSW, Section 25, T2N R102W, 6th PM Rio Blanco County, Colorado	ENTRADA CONSULTING GROUP 330 Grand Avenue, Unit C Grand Junction, CO 81501 970-549-1015	Figure
Map By: NDB		SCOUT 100 Chevron Road Rangely, CO 81648 970-501-5157	1
Date: 4/20/2022			

Table 1
38 Header Spill
Soil Data Summary

SAMPLE SUMMARY	
Location Description	38 Header Spill
Sample Type	Soil

LABORATORY DATA SUMMARY															
Sample ID	38HDR-Bulk Lead (4')	38HDR-SS1	38HDR-SS2	38HDR-SS3	38HDR-SS4	38HDR-SS5	38HDR-SS6	38HDR-SS7	38HDR-SS8	38HDR-SS9	38HDR-SS10	MBLARBC11X25-BG1	**COGCC TABLE 915-1 CONCENTRATION LEVELS**		
Depth	4'	0-1'	0-1'	0-1'	0-1'	0-1'	0-1'	0-1'	0-1'	0-1'	0-1'	3'			
Sample Date	11/23/2021	11/30/2021	11/30/2021	11/30/2021	11/30/2021	11/30/2021	11/30/2021	11/30/2021	11/30/2021	12/7/2021	12/7/2021	8/26/2021			
Analytical Parameters													**Residential Soil Screening Level**	**Protection of Groundwater Screening Level**	**UNITS**
TPH															
TPH (C6-C10)	<2.4	220	<2.8	120	4.9	<3.2	46	110	<3.0	6.9	21	NT	500		mg/kg
TPH (C10-C36)	430	760	40	43	26	110	57	34	100	330	310	NT			
Volatile Organic Compounds															
1,2,4-Trimethylbenzene	0.028 JH	2.1	<0.030	1.0	0.093	<0.0022	0.67	1.1	<0.031	0.20	0.33	NT	30	0.0081	mg/kg
1,3,5-Trimethylbenzene	<0.041 H	0.73	<0.047	0.36	<0.047	<0.0019	0.23	0.38	<0.049	0.078 J	0.13 J	NT	27	0.0087	mg/kg
Benzene	<0.017 H	0.42	<0.020	0.15	0.040	<0.00063	0.72	0.14	<0.020	0.025 J	<0.029	NT	1.2	0.0026	mg/kg
Toluene	<0.0095 H	1.2	<0.011	0.42	0.12	<0.0010	1.1	0.36	<0.012	0.13	0.033 J	NT	490	0.69	mg/kg
Ethylbenzene	<0.0074 H	0.48	<0.0085	0.19	0.041	<0.0011	0.23	0.18	<0.0089	0.061	0.034 J	NT	5.8	0.78	mg/kg
Total Xylene	<0.047 H	3.0	<0.054	1.3	0.28	<0.0027	1.4	1.2	<0.056	0.37	0.25	NT	58	9.9	mg/kg
Metals															
Arsenic	7.3	7.2	8.1	7.6	7.8	7.5	6.2	7.4	5.4	7.6	7.6	4.7	0.68	0.29	mg/kg
Barium	110	180	150	180	170	190	170	220	60	420	350	74	15,000	82	mg/kg
Cadmium	0.10 J	0.13 J	0.12 J	0.11 J	0.19	0.16	0.14	0.15	0.12 J	0.094 J	0.11 J	0.035 J	71	0.38	mg/kg
Chromium, Hexavalent	<0.93	<1.0	<1.0	<1.0	<1.0	<1.1	<1.1	<1.1	<1.1	<1.0	<1.3	<0.85	0.3	0.00067	mg/kg
Copper	13	13	13	15	15	13	13	14	9.9	12	14	11	3,100	46	mg/kg
Lead	22	18	20	19	22	19	18	21	14	23	21	13	400	14	mg/kg
Nickel	24	16	18	18	20	18	16	18	12	21	24	12	1,500	26	mg/kg
Selenium	1.1	1.0	1.2	1.5	2.0	1.3	1.0	1.3	3.4	2.2	1.7	1.1	390	0.26	mg/kg
Silver	0.088 J	0.070 J	0.082 J	0.087	0.096	0.083	0.085	0.084	0.088 J	0.088 J	0.11 J	0.061 J	390	0.8	mg/kg
Zinc	78	70	98	77	85	75	72	81	54	70	74	55	23,000	370	mg/kg
Soil Suitability for Reclamation															
Sodium Adsorption Ratio (SAR)	46	24	7.1	13	5.4	6.3	9.0	13	6.0	47	34	9.6	<6	<6	ratio
Electrical Conductivity (EC)	36	17	14	27	27	10	11	14	10	40	31	12	<4	<4	mmhos/cm
pH	8.30	8.90	9.24	9.38	9.80	10.1	9.96	9.85	9.58	9.25	11.3	7.28	6 - 8.3	6 - 8.3	su
Boron, Hot Water Soluble	2.7	3.3	2.2	1.9	1.3	1.5	1.3	2.5	1.2	2.7	1.8	3.2	2	2	mg/kg-dry
Polynuclear Aromatic Hyrdrocarbons															
1-Methylnaphthalene	0.077 H	0.56	0.088	0.0089	<0.0080	<0.0091	0.011 J	0.16	<0.0095	0.083	0.15	NT	18	0.006	mg/kg
2-Methylnaphthalene	0.081 H	0.63	0.089	0.010	<0.0094	<0.011	<0.011	0.16	<0.011	0.073	0.19	NT	24	0.019	mg/kg
Acenaphthene	<0.011 H	<0.011	<0.012	<0.013	<0.011	<0.013	<0.013	<0.013	<0.014	<0.013	<0.036	NT	360	0.55	mg/kg
Anthracene	<0.012 H	<0.012	<0.013	<0.013	<0.012	<0.014	<0.014	<0.014	<0.014	<0.014	<0.038	NT	1,800	5.8	mg/kg
Benzo(a)anthracene	<0.013 H	<0.013	<0.014	<0.014	<0.013	<0.015	<0.015	<0.015	<0.015	<0.015	<0.041	NT	1.1	0.011	mg/kg
Benzo(a)pyrene	<0.011 H	<0.011	<0.011	<0.012	<0.011	<0.012	<0.013	<0.012	<0.013	<0.012	<0.034	NT	0.11	0.24	mg/kg
Benzo(b)fluoranthene	<0.011 H	<0.011	<0.012	<0.013	<0.011	<0.013	<0.013	<0.013	<0.014	<0.013	<0.036	NT	1.1	0.3	mg/kg
Benzo(k)fluoranthene	<0.011 H	<0.011	<0.012	<0.012	<0.011	<0.012	<0.013	<0.013	<0.013	<0.012	<0.034	NT	11	2.9	mg/kg
Chrysene	<0.012 H	<0.012	<0.013	<0.014	<0.012	<0.014	<0.014	<0.014	<0.015	<0.014	<0.039	NT	110	9	mg/kg
Dibenzo(a,h)anthracene	<0.011 H	<0.011	<0.011	<0.012	<0.011	<0.012	<0.013	<0.013	<0.013	<0.012	<0.034	NT	0.11	0.096	mg/kg
Fluoranthene	<0.010 H	<0.010	<0.011	<0.012	<0.011	<0.012	<0.012	<0.012	<0.013	<0.012	<0.033	NT	240	8.9	mg/kg
Fluorene	<0.010 H	0.023	<0.011	<0.012	<0.011	<0.012	<0.012	<0.012	<0.012	<0.012	<0.033	NT	240	0.54	mg/kg
Indeno(1,2,3-cd)pyrene	<0.011 H	<0.012	<0.012	<0.013	<0.012	<0.012	<0.014	<0.013	<0.014	<0.013	<0.037	NT	1.1	0.98	mg/kg
Napthalene	<0.013 H	0.30	<0.014	0.078	<0.013	<0.015	<0.015	0.050	<0.015	<0.015	<0.041	NT	2	0.0038	mg/kg
Pyrene	<0.013 H	<0.013	<0.014	<0.014	<0.013	<0.015	<0.015	<0.015	<0.015	<0.015	<0.040	NT	180	1.3	mg/kg

mg/kg - milligrams per kilogram

mg/L - milligrams per liter

B - analyte detected in the associated Method Blank above the Reporting Limit

J - indicates an estimated value

H - analyzed outside of holding time

mmhos/cm - millimhos per centimeter

mv - millivolts

su - standard units

NA - not applicable

NT - parameter was not tested

Over COGCC Table 915-1 concentration levels but under BACKGROUND level.

Over COGCC Table 915-1 concentration levels and not within BACKGROUND level.

Over COGCC Table 915-1 concentration levels

21-Dec-2021

Tim Dobransky
Entrada Consulting Group
330 Grand Ave.
Suite C
Grand Junction, CO 81501

Re: **38 Header Spill** Work Order: **21120317**

Dear Tim,

ALS Environmental received 9 samples on 02-Dec-2021 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 58.

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,

Electronically approved by: Chad Whelton

Chad Whelton
Project Manager

Report of Laboratory Analysis

Certificate No: MN 026-999-449

ALS Group, USA

Date: 21-Dec-21

Client: Entrada Consulting Group
Project: 38 Header Spill
Work Order: **21120317**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
21120317-01	38HDR-Bulk Leak (4')	Soil		11/23/2021 12:00	12/2/2021 10:00	☐
21120317-02	38HDR-SS1	Soil		11/30/2021 11:55	12/2/2021 10:00	☐
21120317-03	38HDR-SS2	Soil		11/30/2021 12:15	12/2/2021 10:00	☐
21120317-04	38HDR-SS3	Soil		11/30/2021 12:25	12/2/2021 10:00	☐
21120317-05	38HDR-SS4	Soil		11/30/2021 12:35	12/2/2021 10:00	☐
21120317-06	38HDR-SS5	Soil		11/30/2021 13:00	12/2/2021 10:00	☐
21120317-07	38HDR-SS6	Soil		11/30/2021 13:10	12/2/2021 10:00	☐
21120317-08	38HDR-SS7	Soil		11/30/2021 13:25	12/2/2021 10:00	☐
21120317-09	38HDR-SS8	Soil		11/30/2021 13:35	12/2/2021 10:00	☐

Client: Entrada Consulting Group
Project: 38 Header Spill
Work Order: 21120317

Case Narrative

Sample holding time expired before receipt by laboratory. Results should be considered estimated.

ALS Group, USA

Date: 21-Dec-21

Qualifier	Description
*	Value exceeds Regulatory Limit
**	Estimated Value
a	Analyte is non-accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
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.

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

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

ALS Group, USA

Date: *21-Dec-21*

Client: Entrada Consulting Group
Project: 38 Header Spill
Sample ID: 38HDR-Bulk Leak (4')
Collection Date: 11/23/2021 12:00 PM

Work Order: 21120317
Lab ID: 21120317-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID		Method: **SW8015D**			Prep: SW3550 / 12/6/21		Analyst: **SJB**
ERO (C10-C36)	**430**		**8.1**	**21**	**mg/Kg-dry**	1	12/9/2021 23:14
Surr: 4-Terphenyl-d14	*63.8*			*25-110*	*%REC*	1	12/9/2021 23:14
GASOLINE RANGE ORGANICS BY GC-FID		Method: **SW8015D**			Prep: SW5035A / 12/6/21		Analyst: **SJB**
GRO (C6-C10)	U	H	2.4	5.8	mg/Kg-dry	1	12/7/2021 07:20
Surr: Toluene-d8	*91.9*			*71-123*	*%REC*	1	12/7/2021 07:20
METALS BY ICP-MS		Method: **SW6020B**			Prep: SW3050B / 12/12/21		Analyst: **DSC**
Arsenic	**7.3**		**0.048**	**0.40**	**mg/Kg-dry**	1	12/13/2021 21:41
Barium	**110**		**0.37**	**0.40**	**mg/Kg-dry**	1	12/13/2021 21:41
Cadmium	**0.10**	J	**0.024**	**0.16**	**mg/Kg-dry**	1	12/13/2021 21:41
Copper	**13**		**0.40**	**0.40**	**mg/Kg-dry**	1	12/13/2021 21:41
Lead	**22**		**0.19**	**0.40**	**mg/Kg-dry**	1	12/13/2021 21:41
Nickel	**24**		**0.21**	**0.40**	**mg/Kg-dry**	1	12/13/2021 21:41
Selenium	**1.1**		**0.37**	**0.40**	**mg/Kg-dry**	1	12/13/2021 21:41
Silver	**0.088**	J	**0.053**	**0.40**	**mg/Kg-dry**	1	12/13/2021 21:41
Zinc	**78**		**0.78**	**0.80**	**mg/Kg-dry**	1	12/13/2021 21:41
SOLUBLE CATIONS FOR SAR		Method: **SW6020B**			Prep: USDA Method 20B / 12/14/21		Analyst: **STP**
Calcium	**500**		**2.5**	**5.0**	**mg/L**	10	12/14/2021 17:11
Magnesium	**610**		**0.50**	**2.0**	**mg/L**	10	12/14/2021 17:11
Sodium	**6,400**		**18**	**20**	**mg/L**	100	12/15/2021 13:57
HOT WATER SOLUBLE BORON BY ICP-MS		Method: **SW6020B**			Prep: EXTRACT / 12/13/21		Analyst: **STP**
Boron (Hot Water Soluble)	**2.7**		**0.017**	**0.44**	**mg/Kg-dry**	10	12/13/2021 20:01
SODIUM ADSORPTION RATIO		Method: **USDA H60 METHOD 20B**			Prep: USDA Method 20B / 12/14/21		Analyst: **STP**
Sodium Adsorption Ratio	**46**		**0.010**	**0.010**	**none**	1	12/14/2021
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS)		Method: **SW8270E**			Prep: SW3546 / 12/8/21		Analyst: **EEW**
1-Methylnaphthalene	**0.077**	H	**0.0079**	**0.013**	**mg/Kg-dry**	1	12/10/2021 22:20
2-Methylnaphthalene	**0.081**	H	**0.0092**	**0.013**	**mg/Kg-dry**	1	12/10/2021 22:20
Acenaphthene	U	H	0.011	0.013	mg/Kg-dry	1	12/10/2021 22:20
Anthracene	U	H	0.012	0.013	mg/Kg-dry	1	12/10/2021 22:20
Benzo(a)anthracene	U	H	0.013	0.013	mg/Kg-dry	1	12/10/2021 22:20
Benzo(a)pyrene	U	H	0.011	0.013	mg/Kg-dry	1	12/10/2021 22:20
Benzo(b)fluoranthene	U	H	0.011	0.013	mg/Kg-dry	1	12/10/2021 22:20
Benzo(k)fluoranthene	U	H	0.011	0.013	mg/Kg-dry	1	12/10/2021 22:20
Chrysene	U	H	0.012	0.013	mg/Kg-dry	1	12/10/2021 22:20

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

Client: Entrada Consulting Group
Project: 38 Header Spill
Sample ID: 38HDR-Bulk Leak (4')
Collection Date: 11/23/2021 12:00 PM

Work Order: 21120317
Lab ID: 21120317-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Dibenzo(a,h)anthracene	U	H	0.011	0.013	mg/Kg-dry	1	12/10/2021 22:20
Fluoranthene	U	H	0.010	0.013	mg/Kg-dry	1	12/10/2021 22:20
Fluorene	U	H	0.010	0.013	mg/Kg-dry	1	12/10/2021 22:20
Indeno(1,2,3-cd)pyrene	U	H	0.011	0.013	mg/Kg-dry	1	12/10/2021 22:20
Naphthalene	U	H	0.013	0.013	mg/Kg-dry	1	12/10/2021 22:20
Pyrene	U	H	0.013	0.013	mg/Kg-dry	1	12/10/2021 22:20
Surr: 2-Fluorobiphenyl	*85.9*			*20-140*	*%REC*	1	12/10/2021 22:20
Surr: 4-Terphenyl-d14	*22.3*			*22-172*	*%REC*	1	12/10/2021 22:20
Surr: Nitrobenzene-d5	*49.8*			*28-140*	*%REC*	1	12/10/2021 22:20
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260C**		Prep: SW5035A / 12/6/21		Analyst: **JNS**
1,2,4-Trimethylbenzene	**0.028**	JH	**0.026**	**0.035**	**mg/Kg-dry**	1	12/6/2021 19:26
1,3,5-Trimethylbenzene	U	H	0.041	0.12	mg/Kg-dry	1	12/6/2021 19:26
Benzene	U	H	0.017	0.035	mg/Kg-dry	1	12/6/2021 19:26
Ethylbenzene	U	H	0.0074	0.035	mg/Kg-dry	1	12/6/2021 19:26
m,p-Xylene	U	H	0.047	0.070	mg/Kg-dry	1	12/6/2021 19:26
o-Xylene	U	H	0.013	0.035	mg/Kg-dry	1	12/6/2021 19:26
Toluene	U	H	0.0095	0.035	mg/Kg-dry	1	12/6/2021 19:26
Xylenes, Total	U	H	0.047	0.10	mg/Kg-dry	1	12/6/2021 19:26
Surr: 1,2-Dichloroethane-d4	*96.0*			*70-130*	*%REC*	1	12/6/2021 19:26
Surr: 4-Bromofluorobenzene	*105*			*70-130*	*%REC*	1	12/6/2021 19:26
Surr: Dibromofluoromethane	*97.2*			*70-130*	*%REC*	1	12/6/2021 19:26
Surr: Toluene-d8	*99.2*			*70-130*	*%REC*	1	12/6/2021 19:26
ELECTRICAL CONDUCTIVITY (SAR)		Method:	**USDA H60 METHOD 20B**		Prep: USDA Method 20B / 12/14/21		Analyst: **JMJ**
Electrical Conductivity @ Saturation	**36**		**0.011**	**0.10**	**mmhos/cm @25°C**	20	12/14/2021 11:38
CHROMIUM, HEXAVALENT		Method:	**SW7196A**		Prep: SW3060A / 12/8/21		Analyst: **RZM**
Chromium, Hexavalent	U		0.93	1.1	mg/Kg-dry	1	12/9/2021 15:25
MOISTURE		Method:	**SW3550C**				Analyst: **ALG**
Moisture	**8.5**		**0.10**	**0.10**	**% of sample**	1	12/6/2021 11:25
PH MEASURED IN SOIL PASTE		Method:	**USDA METHOD 20B**		Prep: USDA Method 20B / 12/14/21		Analyst: **KNC**
pH @ Saturation	**8.30**		**0.11**	**0.11**	**s.u.-dry**	1	12/14/2021 09:36

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

ALS Group, USA

Date: *21-Dec-21*

Client: Entrada Consulting Group
Project: 38 Header Spill
Sample ID: 38HDR-SS1
Collection Date: 11/30/2021 11:55 AM

Work Order: 21120317
Lab ID: 21120317-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID		Method: **SW8015D**			Prep: SW3550 / 12/13/21		Analyst: **SJB**
ERO (C10-C36)	**760**		**9.1**	**24**	**mg/Kg-dry**	1	12/14/2021 05:35
Surr: 4-Terphenyl-d14	*83.1*			*25-110*	*%REC*	1	12/14/2021 05:35
GASOLINE RANGE ORGANICS BY GC-FID		Method: **SW8015D**			Prep: SW5035A / 12/6/21		Analyst: **SJB**
GRO (C6-C10)	**220**		**2.5**	**5.9**	**mg/Kg-dry**	1	12/7/2021 10:16
Surr: Toluene-d8	*113*			*71-123*	*%REC*	1	12/7/2021 10:16
METALS BY ICP-MS		Method: **SW6020B**			Prep: SW3050B / 12/12/21		Analyst: **DSC**
Arsenic	**7.2**		**0.052**	**0.43**	**mg/Kg-dry**	1	12/13/2021 21:43
Barium	**180**		**4.0**	**4.3**	**mg/Kg-dry**	10	12/14/2021 19:49
Cadmium	**0.13**	J	**0.026**	**0.17**	**mg/Kg-dry**	1	12/13/2021 21:43
Copper	**13**		**0.43**	**0.43**	**mg/Kg-dry**	1	12/13/2021 21:43
Lead	**18**		**0.21**	**0.43**	**mg/Kg-dry**	1	12/13/2021 21:43
Nickel	**16**		**0.22**	**0.43**	**mg/Kg-dry**	1	12/13/2021 21:43
Selenium	**1.0**		**0.40**	**0.43**	**mg/Kg-dry**	1	12/13/2021 21:43
Silver	**0.070**	J	**0.057**	**0.43**	**mg/Kg-dry**	1	12/13/2021 21:43
Zinc	**70**		**0.84**	**0.86**	**mg/Kg-dry**	1	12/13/2021 21:43
SOLUBLE CATIONS FOR SAR		Method: **SW6020B**			Prep: USDA Method 20B / 12/12/21		Analyst: **STP**
Calcium	**710**		**2.5**	**5.0**	**mg/L**	10	12/13/2021 14:17
Magnesium	**87**		**0.50**	**2.0**	**mg/L**	10	12/14/2021 15:04
Sodium	**2,600**		**18**	**20**	**mg/L**	100	12/14/2021 14:44
HOT WATER SOLUBLE BORON BY ICP-MS		Method: **SW6020B**			Prep: EXTRACT / 12/13/21		Analyst: **STP**
Boron (Hot Water Soluble)	**3.3**		**0.019**	**0.48**	**mg/Kg-dry**	10	12/13/2021 20:03
SODIUM ADSORPTION RATIO		Method: **USDA H60 METHOD 20B**			Prep: USDA Method 20B / 12/12/21		Analyst: **STP**
Sodium Adsorption Ratio	**24**		**0.010**	**0.010**	**none**	1	12/13/2021
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS)		Method: **SW8270E**			Prep: SW3546 / 12/10/21		Analyst: **EEW**
1-Methylnaphthalene	**0.56**		**0.0079**	**0.013**	**mg/Kg-dry**	1	12/11/2021 01:11
2-Methylnaphthalene	**0.63**		**0.0092**	**0.013**	**mg/Kg-dry**	1	12/11/2021 01:11
Acenaphthene	U		0.011	0.013	mg/Kg-dry	1	12/11/2021 01:11
Anthracene	U		0.012	0.013	mg/Kg-dry	1	12/11/2021 01:11
Benzo(a)anthracene	U		0.013	0.013	mg/Kg-dry	1	12/11/2021 01:11
Benzo(a)pyrene	U		0.011	0.013	mg/Kg-dry	1	12/11/2021 01:11
Benzo(b)fluoranthene	U		0.011	0.013	mg/Kg-dry	1	12/11/2021 01:11
Benzo(k)fluoranthene	U		0.011	0.013	mg/Kg-dry	1	12/11/2021 01:11
Chrysene	U		0.012	0.013	mg/Kg-dry	1	12/11/2021 01:11

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

Client: Entrada Consulting Group
Project: 38 Header Spill
Sample ID: 38HDR-SS1
Collection Date: 11/30/2021 11:55 AM

Work Order: 21120317
Lab ID: 21120317-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Dibenzo(a,h)anthracene	U		0.011	0.013	mg/Kg-dry	1	12/11/2021 01:11
Fluoranthene	U		0.010	0.013	mg/Kg-dry	1	12/11/2021 01:11
Fluorene	**0.023**		**0.010**	**0.013**	**mg/Kg-dry**	1	12/11/2021 01:11
Indeno(1,2,3-cd)pyrene	U		0.012	0.013	mg/Kg-dry	1	12/11/2021 01:11
Naphthalene	**0.30**		**0.013**	**0.013**	**mg/Kg-dry**	1	12/11/2021 01:11
Pyrene	U		0.013	0.013	mg/Kg-dry	1	12/11/2021 01:11
Surr: 2-Fluorobiphenyl	*88.6*			*20-140*	*%REC*	1	12/11/2021 01:11
Surr: 4-Terphenyl-d14	*68.0*			*22-172*	*%REC*	1	12/11/2021 01:11
Surr: Nitrobenzene-d5	*87.0*			*28-140*	*%REC*	1	12/11/2021 01:11
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260C**		Prep: SW5035A / 12/6/21		Analyst: **MF**
1,2,4-Trimethylbenzene	**2.1**		**0.026**	**0.035**	**mg/Kg-dry**	1	12/8/2021 01:50
1,3,5-Trimethylbenzene	**0.73**		**0.041**	**0.12**	**mg/Kg-dry**	1	12/8/2021 01:50
Benzene	**0.42**		**0.017**	**0.035**	**mg/Kg-dry**	1	12/8/2021 01:50
Ethylbenzene	**0.48**		**0.0074**	**0.035**	**mg/Kg-dry**	1	12/8/2021 01:50
m,p-Xylene	**2.1**		**0.047**	**0.071**	**mg/Kg-dry**	1	12/8/2021 01:50
o-Xylene	**0.97**		**0.014**	**0.035**	**mg/Kg-dry**	1	12/8/2021 01:50
Toluene	**1.2**		**0.0096**	**0.035**	**mg/Kg-dry**	1	12/8/2021 01:50
Xylenes, Total	**3.0**		**0.047**	**0.11**	**mg/Kg-dry**	1	12/8/2021 01:50
Surr: 1,2-Dichloroethane-d4	*111*			*70-130*	*%REC*	1	12/8/2021 01:50
Surr: 4-Bromofluorobenzene	*108*			*70-130*	*%REC*	1	12/8/2021 01:50
Surr: Dibromofluoromethane	*103*			*70-130*	*%REC*	1	12/8/2021 01:50
Surr: Toluene-d8	*104*			*70-130*	*%REC*	1	12/8/2021 01:50
ELECTRICAL CONDUCTIVITY (SAR)		Method:	**USDA H60 METHOD 20B**		Prep: USDA Method 20B / 12/12/21		Analyst: **KNC**
Electrical Conductivity @ Saturation	**17**		**0.011**	**0.10**	**mmhos/cm @25°C**	20	12/13/2021 16:41
CHROMIUM, HEXAVALENT		Method:	**SW7196A**		Prep: SW3060A / 12/8/21		Analyst: **RZM**
Chromium, Hexavalent	U		1.0	1.2	mg/Kg-dry	1	12/9/2021 15:25
MOISTURE		Method:	**SW3550C**				Analyst: **ALG**
Moisture	**17**		**0.10**	**0.10**	**% of sample**	1	12/9/2021 12:00
PH MEASURED IN SOIL PASTE		Method:	**USDA METHOD 20B**		Prep: USDA Method 20B / 12/12/21		Analyst: **KNC**
pH @ Saturation	**8.90**		**0.12**	**0.12**	**C-dry**	1	12/13/2021 15:26

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

Client: Entrada Consulting Group
Project: 38 Header Spill
Sample ID: 38HDR-SS2
Collection Date: 11/30/2021 12:15 PM

Work Order: 21120317
Lab ID: 21120317-03
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID		Method: **SW8015D**			Prep: SW3550 / 12/13/21		Analyst: **SJB**
ERO (C10-C36)	**40**		**9.1**	**24**	**mg/Kg-dry**	1	12/14/2021 06:12
Surr: 4-Terphenyl-d14	*80.3*			*25-110*	*%REC*	1	12/14/2021 06:12
GASOLINE RANGE ORGANICS BY GC-FID		Method: **SW8015D**			Prep: SW5035A / 12/6/21		Analyst: **SJB**
GRO (C6-C10)	U		2.8	6.7	mg/Kg-dry	1	12/7/2021 10:38
Surr: Toluene-d8	*95.0*			*71-123*	*%REC*	1	12/7/2021 10:38
METALS BY ICP-MS		Method: **SW6020B**			Prep: SW3050B / 12/12/21		Analyst: **DSC**
Arsenic	**8.1**		**0.059**	**0.49**	**mg/Kg-dry**	1	12/13/2021 21:46
Barium	**150**		**0.45**	**0.49**	**mg/Kg-dry**	1	12/13/2021 21:46
Cadmium	**0.12**	J	**0.029**	**0.20**	**mg/Kg-dry**	1	12/13/2021 21:46
Copper	**13**		**0.49**	**0.49**	**mg/Kg-dry**	1	12/13/2021 21:46
Lead	**20**		**0.24**	**0.49**	**mg/Kg-dry**	1	12/13/2021 21:46
Nickel	**18**		**0.26**	**0.49**	**mg/Kg-dry**	1	12/13/2021 21:46
Selenium	**1.2**		**0.45**	**0.49**	**mg/Kg-dry**	1	12/13/2021 21:46
Silver	**0.082**	J	**0.065**	**0.49**	**mg/Kg-dry**	1	12/13/2021 21:46
Zinc	**98**		**0.96**	**0.98**	**mg/Kg-dry**	1	12/13/2021 21:46
SOLUBLE CATIONS FOR SAR		Method: **SW6020B**			Prep: USDA Method 20B / 12/12/21		Analyst: **STP**
Calcium	**1,200**		**2.5**	**5.0**	**mg/L**	10	12/13/2021 14:19
Magnesium	**79**		**0.50**	**2.0**	**mg/L**	10	12/14/2021 15:06
Sodium	**950**		**1.8**	**2.0**	**mg/L**	10	12/14/2021 15:06
HOT WATER SOLUBLE BORON BY ICP-MS		Method: **SW6020B**			Prep: EXTRACT / 12/13/21		Analyst: **STP**
Boron (Hot Water Soluble)	**2.2**		**0.019**	**0.48**	**mg/Kg-dry**	10	12/13/2021 20:05
SODIUM ADSORPTION RATIO		Method: **USDA H60 METHOD 20B**			Prep: USDA Method 20B / 12/12/21		Analyst: **STP**
Sodium Adsorption Ratio	**7.1**		**0.010**	**0.010**	**none**	1	12/13/2021
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS)		Method: **SW8270E**			Prep: SW3546 / 12/10/21		Analyst: **EEW**
1-Methylnaphthalene	**0.088**		**0.0085**	**0.014**	**mg/Kg-dry**	1	12/11/2021 01:27
2-Methylnaphthalene	**0.089**		**0.0099**	**0.014**	**mg/Kg-dry**	1	12/11/2021 01:27
Acenaphthene	U		0.012	0.014	mg/Kg-dry	1	12/11/2021 01:27
Anthracene	U		0.013	0.014	mg/Kg-dry	1	12/11/2021 01:27
Benzo(a)anthracene	U		0.014	0.014	mg/Kg-dry	1	12/11/2021 01:27
Benzo(a)pyrene	U		0.011	0.014	mg/Kg-dry	1	12/11/2021 01:27
Benzo(b)fluoranthene	U		0.012	0.014	mg/Kg-dry	1	12/11/2021 01:27
Benzo(k)fluoranthene	U		0.012	0.014	mg/Kg-dry	1	12/11/2021 01:27
Chrysene	U		0.013	0.014	mg/Kg-dry	1	12/11/2021 01:27

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

Client: Entrada Consulting Group
Project: 38 Header Spill
Sample ID: 38HDR-SS2
Collection Date: 11/30/2021 12:15 PM

Work Order: 21120317
Lab ID: 21120317-03
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Dibenzo(a,h)anthracene	U		0.011	0.014	mg/Kg-dry	1	12/11/2021 01:27
Fluoranthene	U		0.011	0.014	mg/Kg-dry	1	12/11/2021 01:27
Fluorene	U		0.011	0.014	mg/Kg-dry	1	12/11/2021 01:27
Indeno(1,2,3-cd)pyrene	U		0.012	0.014	mg/Kg-dry	1	12/11/2021 01:27
Naphthalene	U		0.014	0.014	mg/Kg-dry	1	12/11/2021 01:27
Pyrene	U		0.014	0.014	mg/Kg-dry	1	12/11/2021 01:27
Surr: 2-Fluorobiphenyl	*91.4*			*20-140*	*%REC*	1	12/11/2021 01:27
Surr: 4-Terphenyl-d14	*64.1*			*22-172*	*%REC*	1	12/11/2021 01:27
Surr: Nitrobenzene-d5	*83.9*			*28-140*	*%REC*	1	12/11/2021 01:27
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260C**		Prep: SW5035A / 12/6/21		Analyst: **MF**
1,2,4-Trimethylbenzene	U		0.030	0.040	mg/Kg-dry	1	12/8/2021 02:08
1,3,5-Trimethylbenzene	U		0.047	0.13	mg/Kg-dry	1	12/8/2021 02:08
Benzene	U		0.020	0.040	mg/Kg-dry	1	12/8/2021 02:08
Ethylbenzene	U		0.0085	0.040	mg/Kg-dry	1	12/8/2021 02:08
m,p-Xylene	U		0.054	0.081	mg/Kg-dry	1	12/8/2021 02:08
o-Xylene	U		0.016	0.040	mg/Kg-dry	1	12/8/2021 02:08
Toluene	U		0.011	0.040	mg/Kg-dry	1	12/8/2021 02:08
Xylenes, Total	U		0.054	0.12	mg/Kg-dry	1	12/8/2021 02:08
Surr: 1,2-Dichloroethane-d4	*109*			*70-130*	*%REC*	1	12/8/2021 02:08
Surr: 4-Bromofluorobenzene	*105*			*70-130*	*%REC*	1	12/8/2021 02:08
Surr: Dibromofluoromethane	*103*			*70-130*	*%REC*	1	12/8/2021 02:08
Surr: Toluene-d8	*94.3*			*70-130*	*%REC*	1	12/8/2021 02:08
ELECTRICAL CONDUCTIVITY (SAR)		Method:	**USDA H60 METHOD 20B**		Prep: USDA Method 20B / 12/12/21		Analyst: **KNC**
Electrical Conductivity @ Saturation	**14**		**0.011**	**0.10**	**mmhos/cm @25°C**	20	12/13/2021 16:41
CHROMIUM, HEXAVALENT		Method:	**SW7196A**		Prep: SW3060A / 12/14/21		Analyst: **RZM**
Chromium, Hexavalent	U		1.0	1.2	mg/Kg-dry	1	12/15/2021 18:24
MOISTURE		Method:	**SW3550C**				Analyst: **ALG**
Moisture	**16**		**0.10**	**0.10**	**% of sample**	1	12/9/2021 13:57
PH MEASURED IN SOIL PASTE		Method:	**USDA METHOD 20B**		Prep: USDA Method 20B / 12/12/21		Analyst: **KNC**
pH @ Saturation	**9.24**		**0.12**	**0.12**	**C-dry**	1	12/13/2021 15:26

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

Client: Entrada Consulting Group
Project: 38 Header Spill
Sample ID: 38HDR-SS3
Collection Date: 11/30/2021 12:25 PM

Work Order: 21120317
Lab ID: 21120317-04
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID		Method: **SW8015D**			Prep: SW3550 / 12/13/21		Analyst: **SJB**
ERO (C10-C36)	**43**		**9.3**	**24**	**mg/Kg-dry**	1	12/14/2021 06:49
Surr: 4-Terphenyl-d14	*76.1*			*25-110*	*%REC*	1	12/14/2021 06:49
GASOLINE RANGE ORGANICS BY GC-FID		Method: **SW8015D**			Prep: SW5035A / 12/6/21		Analyst: **SJB**
GRO (C6-C10)	**120**		**2.9**	**6.8**	**mg/Kg-dry**	1	12/7/2021 11:00
Surr: Toluene-d8	*99.4*			*71-123*	*%REC*	1	12/7/2021 11:00
METALS BY ICP-MS		Method: **SW6020B**			Prep: SW3050B / 12/12/21		Analyst: **DSC**
Arsenic	**7.6**		**0.061**	**0.51**	**mg/Kg-dry**	1	12/13/2021 21:48
Barium	**180**		**0.47**	**0.51**	**mg/Kg-dry**	1	12/13/2021 21:48
Cadmium	**0.11**	J	**0.031**	**0.20**	**mg/Kg-dry**	1	12/13/2021 21:48
Copper	**15**		**0.51**	**0.51**	**mg/Kg-dry**	1	12/13/2021 21:48
Lead	**19**		**0.24**	**0.51**	**mg/Kg-dry**	1	12/13/2021 21:48
Nickel	**18**		**0.27**	**0.51**	**mg/Kg-dry**	1	12/13/2021 21:48
Selenium	**1.5**		**0.47**	**0.51**	**mg/Kg-dry**	1	12/13/2021 21:48
Silver	**0.087**	J	**0.067**	**0.51**	**mg/Kg-dry**	1	12/13/2021 21:48
Zinc	**77**		**1.0**	**1.0**	**mg/Kg-dry**	1	12/13/2021 21:48
SOLUBLE CATIONS FOR SAR		Method: **SW6020B**			Prep: USDA Method 20B / 12/12/21		Analyst: **STP**
Calcium	**2,700**		**25**	**50**	**mg/L**	100	12/14/2021 14:46
Magnesium	**120**		**0.50**	**2.0**	**mg/L**	10	12/14/2021 15:07
Sodium	**2,600**		**18**	**20**	**mg/L**	100	12/14/2021 14:46
HOT WATER SOLUBLE BORON BY ICP-MS		Method: **SW6020B**			Prep: EXTRACT / 12/13/21		Analyst: **STP**
Boron (Hot Water Soluble)	**1.9**		**0.020**	**0.49**	**mg/Kg-dry**	10	12/13/2021 20:07
SODIUM ADSORPTION RATIO		Method: **USDA H60 METHOD 20B**			Prep: USDA Method 20B / 12/12/21		Analyst: **STP**
Sodium Adsorption Ratio	**13**		**0.010**	**0.010**	**none**	1	12/13/2021
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS)		Method: **SW8270E**			Prep: SW3546 / 12/10/21		Analyst: **EEW**
1-Methylnaphthalene	**0.18**		**0.0089**	**0.015**	**mg/Kg-dry**	1	12/11/2021 01:42
2-Methylnaphthalene	**0.19**		**0.010**	**0.015**	**mg/Kg-dry**	1	12/11/2021 01:42
Acenaphthene	U		0.013	0.015	mg/Kg-dry	1	12/11/2021 01:42
Anthracene	U		0.013	0.015	mg/Kg-dry	1	12/11/2021 01:42
Benzo(a)anthracene	U		0.014	0.015	mg/Kg-dry	1	12/11/2021 01:42
Benzo(a)pyrene	U		0.012	0.015	mg/Kg-dry	1	12/11/2021 01:42
Benzo(b)fluoranthene	U		0.013	0.015	mg/Kg-dry	1	12/11/2021 01:42
Benzo(k)fluoranthene	U		0.012	0.015	mg/Kg-dry	1	12/11/2021 01:42
Chrysene	U		0.014	0.015	mg/Kg-dry	1	12/11/2021 01:42

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

Client: Entrada Consulting Group
Project: 38 Header Spill
Sample ID: 38HDR-SS3
Collection Date: 11/30/2021 12:25 PM

Work Order: 21120317
Lab ID: 21120317-04
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Dibenzo(a,h)anthracene	U		0.012	0.015	mg/Kg-dry	1	12/11/2021 01:42
Fluoranthene	U		0.012	0.015	mg/Kg-dry	1	12/11/2021 01:42
Fluorene	U		0.012	0.015	mg/Kg-dry	1	12/11/2021 01:42
Indeno(1,2,3-cd)pyrene	U		0.013	0.015	mg/Kg-dry	1	12/11/2021 01:42
Naphthalene	**0.078**		**0.014**	**0.015**	**mg/Kg-dry**	1	12/11/2021 01:42
Pyrene	U		0.014	0.015	mg/Kg-dry	1	12/11/2021 01:42
Surr: 2-Fluorobiphenyl	*87.3*			*20-140*	*%REC*	1	12/11/2021 01:42
Surr: 4-Terphenyl-d14	*65.1*			*22-172*	*%REC*	1	12/11/2021 01:42
Surr: Nitrobenzene-d5	*78.6*			*28-140*	*%REC*	1	12/11/2021 01:42
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260C**		Prep: SW5035A / 12/6/21		Analyst: **MF**
1,2,4-Trimethylbenzene	**1.0**		**0.030**	**0.041**	**mg/Kg-dry**	1	12/8/2021 02:26
1,3,5-Trimethylbenzene	**0.36**		**0.048**	**0.14**	**mg/Kg-dry**	1	12/8/2021 02:26
Benzene	**0.15**		**0.020**	**0.041**	**mg/Kg-dry**	1	12/8/2021 02:26
Ethylbenzene	**0.19**		**0.0086**	**0.041**	**mg/Kg-dry**	1	12/8/2021 02:26
m,p-Xylene	**0.87**		**0.055**	**0.082**	**mg/Kg-dry**	1	12/8/2021 02:26
o-Xylene	**0.43**		**0.016**	**0.041**	**mg/Kg-dry**	1	12/8/2021 02:26
Toluene	**0.42**		**0.011**	**0.041**	**mg/Kg-dry**	1	12/8/2021 02:26
Xylenes, Total	**1.3**		**0.055**	**0.12**	**mg/Kg-dry**	1	12/8/2021 02:26
Surr: 1,2-Dichloroethane-d4	*113*			*70-130*	*%REC*	1	12/8/2021 02:26
Surr: 4-Bromofluorobenzene	*106*			*70-130*	*%REC*	1	12/8/2021 02:26
Surr: Dibromofluoromethane	*108*			*70-130*	*%REC*	1	12/8/2021 02:26
Surr: Toluene-d8	*103*			*70-130*	*%REC*	1	12/8/2021 02:26
ELECTRICAL CONDUCTIVITY (SAR)		Method:	**USDA H60 METHOD 20B**		Prep: USDA Method 20B / 12/12/21		Analyst: **KNC**
Electrical Conductivity @ Saturation	**27**		**0.011**	**0.10**	**mmhos/cm @25°C**	20	12/13/2021 16:41
CHROMIUM, HEXAVALENT		Method:	**SW7196A**		Prep: SW3060A / 12/14/21		Analyst: **RZM**
Chromium, Hexavalent	U		1.0	1.2	mg/Kg-dry	1	12/15/2021 18:24
MOISTURE		Method:	**SW3550C**				Analyst: **ALG**
Moisture	**19**		**0.10**	**0.10**	**% of sample**	1	12/9/2021 13:57
PH MEASURED IN SOIL PASTE		Method:	**USDA METHOD 20B**		Prep: USDA Method 20B / 12/12/21		Analyst: **KNC**
pH @ Saturation	**9.38**		**0.12**	**0.12**	**C-dry**	1	12/13/2021 15:26

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

ALS Group, USA

Date: *21-Dec-21*

Client: Entrada Consulting Group
Project: 38 Header Spill
Sample ID: 38HDR-SS4
Collection Date: 11/30/2021 12:35 PM

Work Order: 21120317
Lab ID: 21120317-05
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID		Method: **SW8015D**			Prep: SW3550 / 12/13/21		Analyst: **SJB**
ERO (C10-C36)	**26**		**9.1**	**24**	**mg/Kg-dry**	1	12/14/2021 07:27
Surr: 4-Terphenyl-d14	*85.4*			*25-110*	*%REC*	1	12/14/2021 07:27
GASOLINE RANGE ORGANICS BY GC-FID		Method: **SW8015D**			Prep: SW5035A / 12/6/21		Analyst: **SJB**
GRO (C6-C10)	**4.9**	J	**2.8**	**6.7**	**mg/Kg-dry**	1	12/7/2021 11:22
Surr: Toluene-d8	*92.4*			*71-123*	*%REC*	1	12/7/2021 11:22
METALS BY ICP-MS		Method: **SW6020B**			Prep: SW3050B / 12/12/21		Analyst: **DSC**
Arsenic	**7.8**		**0.054**	**0.45**	**mg/Kg-dry**	1	12/13/2021 21:51
Barium	**170**		**4.2**	**4.5**	**mg/Kg-dry**	10	12/14/2021 19:51
Cadmium	**0.19**		**0.027**	**0.18**	**mg/Kg-dry**	1	12/13/2021 21:51
Copper	**15**		**0.45**	**0.45**	**mg/Kg-dry**	1	12/13/2021 21:51
Lead	**22**		**0.22**	**0.45**	**mg/Kg-dry**	1	12/13/2021 21:51
Nickel	**20**		**0.23**	**0.45**	**mg/Kg-dry**	1	12/13/2021 21:51
Selenium	**2.0**		**0.42**	**0.45**	**mg/Kg-dry**	1	12/13/2021 21:51
Silver	**0.096**	J	**0.060**	**0.45**	**mg/Kg-dry**	1	12/13/2021 21:51
Zinc	**85**		**0.88**	**0.90**	**mg/Kg-dry**	1	12/13/2021 21:51
SOLUBLE CATIONS FOR SAR		Method: **SW6020B**			Prep: USDA Method 20B / 12/12/21		Analyst: **STP**
Calcium	**820**		**2.5**	**5.0**	**mg/L**	10	12/13/2021 14:29
Magnesium	**37**		**0.50**	**2.0**	**mg/L**	10	12/14/2021 15:09
Sodium	**580**		**1.8**	**2.0**	**mg/L**	10	12/14/2021 15:09
HOT WATER SOLUBLE BORON BY ICP-MS		Method: **SW6020B**			Prep: EXTRACT / 12/13/21		Analyst: **STP**
Boron (Hot Water Soluble)	**1.3**		**0.020**	**0.49**	**mg/Kg-dry**	10	12/13/2021 20:08
SODIUM ADSORPTION RATIO		Method: **USDA H60 METHOD 20B**			Prep: USDA Method 20B / 12/12/21		Analyst: **STP**
Sodium Adsorption Ratio	**5.4**		**0.010**	**0.010**	**none**	1	12/13/2021
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS)		Method: **SW8270E**			Prep: SW3546 / 12/10/21		Analyst: **EEW**
1-Methylnaphthalene	U		0.0080	0.013	mg/Kg-dry	1	12/11/2021 01:58
2-Methylnaphthalene	U		0.0094	0.013	mg/Kg-dry	1	12/11/2021 01:58
Acenaphthene	U		0.011	0.013	mg/Kg-dry	1	12/11/2021 01:58
Anthracene	U		0.012	0.013	mg/Kg-dry	1	12/11/2021 01:58
Benzo(a)anthracene	U		0.013	0.013	mg/Kg-dry	1	12/11/2021 01:58
Benzo(a)pyrene	U		0.011	0.013	mg/Kg-dry	1	12/11/2021 01:58
Benzo(b)fluoranthene	U		0.011	0.013	mg/Kg-dry	1	12/11/2021 01:58
Benzo(k)fluoranthene	U		0.011	0.013	mg/Kg-dry	1	12/11/2021 01:58
Chrysene	U		0.012	0.013	mg/Kg-dry	1	12/11/2021 01:58

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

Client: Entrada Consulting Group
Project: 38 Header Spill
Sample ID: 38HDR-SS4
Collection Date: 11/30/2021 12:35 PM

Work Order: 21120317
Lab ID: 21120317-05
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Dibenzo(a,h)anthracene	U		0.011	0.013	mg/Kg-dry	1	12/11/2021 01:58
Fluoranthene	U		0.011	0.013	mg/Kg-dry	1	12/11/2021 01:58
Fluorene	U		0.011	0.013	mg/Kg-dry	1	12/11/2021 01:58
Indeno(1,2,3-cd)pyrene	U		0.012	0.013	mg/Kg-dry	1	12/11/2021 01:58
Naphthalene	U		0.013	0.013	mg/Kg-dry	1	12/11/2021 01:58
Pyrene	U		0.013	0.013	mg/Kg-dry	1	12/11/2021 01:58
Surr: 2-Fluorobiphenyl	*88.4*			*20-140*	*%REC*	1	12/11/2021 01:58
Surr: 4-Terphenyl-d14	*73.8*			*22-172*	*%REC*	1	12/11/2021 01:58
Surr: Nitrobenzene-d5	*95.7*			*28-140*	*%REC*	1	12/11/2021 01:58
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260C**		Prep: SW5035A / 12/6/21		Analyst: **MF**
1,2,4-Trimethylbenzene	**0.093**		**0.029**	**0.040**	**mg/Kg-dry**	1	12/8/2021 02:44
1,3,5-Trimethylbenzene	U		0.047	0.13	mg/Kg-dry	1	12/8/2021 02:44
Benzene	**0.040**	J	**0.019**	**0.040**	**mg/Kg-dry**	1	12/8/2021 02:44
Ethylbenzene	**0.041**		**0.0084**	**0.040**	**mg/Kg-dry**	1	12/8/2021 02:44
m,p-Xylene	**0.18**		**0.053**	**0.080**	**mg/Kg-dry**	1	12/8/2021 02:44
o-Xylene	**0.099**		**0.015**	**0.040**	**mg/Kg-dry**	1	12/8/2021 02:44
Toluene	**0.12**		**0.011**	**0.040**	**mg/Kg-dry**	1	12/8/2021 02:44
Xylenes, Total	**0.28**		**0.053**	**0.12**	**mg/Kg-dry**	1	12/8/2021 02:44
Surr: 1,2-Dichloroethane-d4	*115*			*70-130*	*%REC*	1	12/8/2021 02:44
Surr: 4-Bromofluorobenzene	*99.1*			*70-130*	*%REC*	1	12/8/2021 02:44
Surr: Dibromofluoromethane	*94.7*			*70-130*	*%REC*	1	12/8/2021 02:44
Surr: Toluene-d8	*100*			*70-130*	*%REC*	1	12/8/2021 02:44
ELECTRICAL CONDUCTIVITY (SAR)		Method:	**USDA H60 METHOD 20B**		Prep: USDA Method 20B / 12/12/21		Analyst: **KNC**
Electrical Conductivity @ Saturation	**7.9**		**0.011**	**0.10**	**mmhos/cm @25°C**	20	12/13/2021 16:41
CHROMIUM, HEXAVALENT		Method:	**SW7196A**		Prep: SW3060A / 12/14/21		Analyst: **RZM**
Chromium, Hexavalent	U		1.0	1.2	mg/Kg-dry	1	12/15/2021 18:24
MOISTURE		Method:	**SW3550C**				Analyst: **ALG**
Moisture	**19**		**0.10**	**0.10**	**% of sample**	1	12/9/2021 13:57
PH MEASURED IN SOIL PASTE		Method:	**USDA METHOD 20B**		Prep: USDA Method 20B / 12/12/21		Analyst: **KNC**
pH @ Saturation	**9.80**		**0.12**	**0.12**	**C-dry**	1	12/13/2021 15:26

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

Client: Entrada Consulting Group
Project: 38 Header Spill
Sample ID: 38HDR-SS5
Collection Date: 11/30/2021 01:00 PM

Work Order: 21120317
Lab ID: 21120317-06
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID		Method: **SW8015D**			Prep: SW3550 / 12/13/21		Analyst: **SJB**
ERO (C10-C36)	**110**		**9.6**	**25**	**mg/Kg-dry**	1	12/14/2021 09:18
Surr: 4-Terphenyl-d14	*66.7*			*25-110*	*%REC*	1	12/14/2021 09:18
GASOLINE RANGE ORGANICS BY GC-FID		Method: **SW8015D**			Prep: SW5035A / 12/6/21		Analyst: **SJB**
GRO (C6-C10)	U		3.2	7.7	mg/Kg-dry	1	12/7/2021 11:44
Surr: Toluene-d8	*94.6*			*71-123*	*%REC*	1	12/7/2021 11:44
METALS BY ICP-MS		Method: **SW6020B**			Prep: SW3050B / 12/12/21		Analyst: **DSC**
Arsenic	**7.5**		**0.053**	**0.44**	**mg/Kg-dry**	1	12/13/2021 21:53
Barium	**190**		**4.0**	**4.4**	**mg/Kg-dry**	10	12/14/2021 19:53
Cadmium	**0.16**	J	**0.026**	**0.18**	**mg/Kg-dry**	1	12/13/2021 21:53
Copper	**13**		**0.44**	**0.44**	**mg/Kg-dry**	1	12/13/2021 21:53
Lead	**19**		**0.21**	**0.44**	**mg/Kg-dry**	1	12/13/2021 21:53
Nickel	**18**		**0.23**	**0.44**	**mg/Kg-dry**	1	12/13/2021 21:53
Selenium	**1.3**		**0.40**	**0.44**	**mg/Kg-dry**	1	12/13/2021 21:53
Silver	**0.083**	J	**0.058**	**0.44**	**mg/Kg-dry**	1	12/13/2021 21:53
Zinc	**75**		**0.86**	**0.88**	**mg/Kg-dry**	1	12/13/2021 21:53
SOLUBLE CATIONS FOR SAR		Method: **SW6020B**			Prep: USDA Method 20B / 12/12/21		Analyst: **STP**
Calcium	**1,100**		**2.5**	**5.0**	**mg/L**	10	12/13/2021 14:31
Magnesium	**100**		**0.50**	**2.0**	**mg/L**	10	12/14/2021 15:11
Sodium	**800**		**1.8**	**2.0**	**mg/L**	10	12/14/2021 15:11
HOT WATER SOLUBLE BORON BY ICP-MS		Method: **SW6020B**			Prep: EXTRACT / 12/13/21		Analyst: **STP**
Boron (Hot Water Soluble)	**1.5**		**0.020**	**0.51**	**mg/Kg-dry**	10	12/13/2021 20:13
SODIUM ADSORPTION RATIO		Method: **USDA H60 METHOD 20B**			Prep: USDA Method 20B / 12/12/21		Analyst: **STP**
Sodium Adsorption Ratio	**6.3**		**0.010**	**0.010**	**none**	1	12/13/2021
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS)		Method: **SW8270E**			Prep: SW3546 / 12/10/21		Analyst: **EEW**
1-Methylnaphthalene	U		0.0091	0.015	mg/Kg-dry	1	12/11/2021 02:14
2-Methylnaphthalene	U		0.011	0.015	mg/Kg-dry	1	12/11/2021 02:14
Acenaphthene	U		0.013	0.015	mg/Kg-dry	1	12/11/2021 02:14
Anthracene	U		0.014	0.015	mg/Kg-dry	1	12/11/2021 02:14
Benzo(a)anthracene	U		0.015	0.015	mg/Kg-dry	1	12/11/2021 02:14
Benzo(a)pyrene	U		0.012	0.015	mg/Kg-dry	1	12/11/2021 02:14
Benzo(b)fluoranthene	U		0.013	0.015	mg/Kg-dry	1	12/11/2021 02:14
Benzo(k)fluoranthene	U		0.012	0.015	mg/Kg-dry	1	12/11/2021 02:14
Chrysene	U		0.014	0.015	mg/Kg-dry	1	12/11/2021 02:14

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

Client: Entrada Consulting Group
Project: 38 Header Spill
Sample ID: 38HDR-SS5
Collection Date: 11/30/2021 01:00 PM

Work Order: 21120317
Lab ID: 21120317-06
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Dibenzo(a,h)anthracene	U		0.012	0.015	mg/Kg-dry	1	12/11/2021 02:14
Fluoranthene	U		0.012	0.015	mg/Kg-dry	1	12/11/2021 02:14
Fluorene	U		0.012	0.015	mg/Kg-dry	1	12/11/2021 02:14
Indeno(1,2,3-cd)pyrene	U		0.013	0.015	mg/Kg-dry	1	12/11/2021 02:14
Naphthalene	U		0.015	0.015	mg/Kg-dry	1	12/11/2021 02:14
Pyrene	U		0.015	0.015	mg/Kg-dry	1	12/11/2021 02:14
Surr: 2-Fluorobiphenyl	*90.3*			*20-140*	*%REC*	1	12/11/2021 02:14
Surr: 4-Terphenyl-d14	*76.3*			*22-172*	*%REC*	1	12/11/2021 02:14
Surr: Nitrobenzene-d5	*97.7*			*28-140*	*%REC*	1	12/11/2021 02:14
VOLATILE ORGANIC COMPOUNDS - LOW LEVEL		Method:	**SW8260C**				Analyst: **MF**
1,2,4-Trimethylbenzene	U		0.0022	0.0061	mg/Kg-dry	0.951	12/9/2021 21:06
1,3,5-Trimethylbenzene	U		0.0019	0.0061	mg/Kg-dry	0.951	12/9/2021 21:06
Benzene	U		0.00063	0.0061	mg/Kg-dry	0.951	12/9/2021 21:06
Ethylbenzene	U		0.0011	0.0061	mg/Kg-dry	0.951	12/9/2021 21:06
m,p-Xylene	U		0.0027	0.0030	mg/Kg-dry	0.951	12/9/2021 21:06
o-Xylene	U		0.0015	0.0030	mg/Kg-dry	0.951	12/9/2021 21:06
Toluene	U		0.0010	0.0061	mg/Kg-dry	0.951	12/9/2021 21:06
Xylenes, Total	U		0.0027	0.0061	mg/Kg-dry	0.951	12/9/2021 21:06
Surr: 1,2-Dichloroethane-d4	*108*			*83-132*	*%REC*	0.951	12/9/2021 21:06
Surr: 4-Bromofluorobenzene	*101*			*83-111*	*%REC*	0.951	12/9/2021 21:06
Surr: Dibromofluoromethane	*103*			*77-125*	*%REC*	0.951	12/9/2021 21:06
Surr: Toluene-d8	*98.0*			*86-108*	*%REC*	0.951	12/9/2021 21:06
ELECTRICAL CONDUCTIVITY (SAR)		Method:	**USDA H60 METHOD 20B**		Prep: USDA Method 20B / 12/12/21		Analyst: **KNC**
Electrical Conductivity @ Saturation	**10**		**0.011**	**0.10**	**mmhos/cm @25°C**	20	12/13/2021 16:41
CHROMIUM, HEXAVALENT		Method:	**SW7196A**		Prep: SW3060A / 12/14/21		Analyst: **RZM**
Chromium, Hexavalent	U		1.1	1.3	mg/Kg-dry	1	12/15/2021 18:24
MOISTURE		Method:	**SW3550C**				Analyst: **ALG**
Moisture	**22**		**0.10**	**0.10**	**% of sample**	1	12/9/2021 13:57
PH MEASURED IN SOIL PASTE		Method:	**USDA METHOD 20B**		Prep: USDA Method 20B / 12/12/21		Analyst: **KNC**
pH @ Saturation	**10.1**		**0.13**	**0.13**	**C-dry**	1	12/13/2021 15:26

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

Client: Entrada Consulting Group
Project: 38 Header Spill
Sample ID: 38HDR-SS6
Collection Date: 11/30/2021 01:10 PM

Work Order: 21120317
Lab ID: 21120317-07
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID		Method: **SW8015D**			Prep: SW3550 / 12/13/21		Analyst: **SJB**
ERO (C10-C36)	**57**		**9.9**	**26**	**mg/Kg-dry**	1	12/14/2021 09:56
Surr: 4-Terphenyl-d14	*77.1*			*25-110*	*%REC*	1	12/14/2021 09:56
GASOLINE RANGE ORGANICS BY GC-FID		Method: **SW8015D**			Prep: SW5035A / 12/6/21		Analyst: **SJB**
GRO (C6-C10)	**46**		**3.8**	**9.1**	**mg/Kg-dry**	1	12/7/2021 12:06
Surr: Toluene-d8	*94.8*			*71-123*	*%REC*	1	12/7/2021 12:06
METALS BY ICP-MS		Method: **SW6020B**			Prep: SW3050B / 12/12/21		Analyst: **DSC**
Arsenic	**6.2**		**0.058**	**0.48**	**mg/Kg-dry**	1	12/13/2021 21:55
Barium	**170**		**0.44**	**0.48**	**mg/Kg-dry**	1	12/13/2021 21:55
Cadmium	**0.14**	J	**0.029**	**0.19**	**mg/Kg-dry**	1	12/13/2021 21:55
Copper	**13**		**0.48**	**0.48**	**mg/Kg-dry**	1	12/13/2021 21:55
Lead	**18**		**0.23**	**0.48**	**mg/Kg-dry**	1	12/13/2021 21:55
Nickel	**16**		**0.25**	**0.48**	**mg/Kg-dry**	1	12/13/2021 21:55
Selenium	**1.0**		**0.44**	**0.48**	**mg/Kg-dry**	1	12/13/2021 21:55
Silver	**0.085**	J	**0.063**	**0.48**	**mg/Kg-dry**	1	12/13/2021 21:55
Zinc	**72**		**0.94**	**0.96**	**mg/Kg-dry**	1	12/13/2021 21:55
SOLUBLE CATIONS FOR SAR		Method: **SW6020B**			Prep: USDA Method 20B / 12/12/21		Analyst: **STP**
Calcium	**750**		**2.5**	**5.0**	**mg/L**	10	12/13/2021 14:32
Magnesium	**98**		**0.50**	**2.0**	**mg/L**	10	12/14/2021 15:12
Sodium	**990**		**1.8**	**2.0**	**mg/L**	10	12/14/2021 15:12
HOT WATER SOLUBLE BORON BY ICP-MS		Method: **SW6020B**			Prep: EXTRACT / 12/13/21		Analyst: **STP**
Boron (Hot Water Soluble)	**1.3**		**0.021**	**0.52**	**mg/Kg-dry**	10	12/13/2021 20:15
SODIUM ADSORPTION RATIO		Method: **USDA H60 METHOD 20B**			Prep: USDA Method 20B / 12/12/21		Analyst: **STP**
Sodium Adsorption Ratio	**9.0**		**0.010**	**0.010**	**none**	1	12/13/2021
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS)		Method: **SW8270E**			Prep: SW3546 / 12/10/21		Analyst: **EEW**
1-Methylnaphthalene	**0.011**	J	**0.0094**	**0.016**	**mg/Kg-dry**	1	12/11/2021 02:29
2-Methylnaphthalene	U		0.011	0.016	mg/Kg-dry	1	12/11/2021 02:29
Acenaphthene	U		0.013	0.016	mg/Kg-dry	1	12/11/2021 02:29
Anthracene	U		0.014	0.016	mg/Kg-dry	1	12/11/2021 02:29
Benzo(a)anthracene	U		0.015	0.016	mg/Kg-dry	1	12/11/2021 02:29
Benzo(a)pyrene	U		0.013	0.016	mg/Kg-dry	1	12/11/2021 02:29
Benzo(b)fluoranthene	U		0.013	0.016	mg/Kg-dry	1	12/11/2021 02:29
Benzo(k)fluoranthene	U		0.013	0.016	mg/Kg-dry	1	12/11/2021 02:29
Chrysene	U		0.014	0.016	mg/Kg-dry	1	12/11/2021 02:29

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

Client: Entrada Consulting Group
Project: 38 Header Spill
Sample ID: 38HDR-SS6
Collection Date: 11/30/2021 01:10 PM

Work Order: 21120317
Lab ID: 21120317-07
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Dibenzo(a,h)anthracene	U		0.013	0.016	mg/Kg-dry	1	12/11/2021 02:29
Fluoranthene	U		0.012	0.016	mg/Kg-dry	1	12/11/2021 02:29
Fluorene	U		0.012	0.016	mg/Kg-dry	1	12/11/2021 02:29
Indeno(1,2,3-cd)pyrene	U		0.014	0.016	mg/Kg-dry	1	12/11/2021 02:29
Naphthalene	U		0.015	0.016	mg/Kg-dry	1	12/11/2021 02:29
Pyrene	U		0.015	0.016	mg/Kg-dry	1	12/11/2021 02:29
Surr: 2-Fluorobiphenyl	*84.5*			*20-140*	*%REC*	1	12/11/2021 02:29
Surr: 4-Terphenyl-d14	*64.7*			*22-172*	*%REC*	1	12/11/2021 02:29
Surr: Nitrobenzene-d5	*94.0*			*28-140*	*%REC*	1	12/11/2021 02:29
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260C**		Prep: SW5035A / 12/6/21		Analyst: **MF**
1,2,4-Trimethylbenzene	**0.67**		**0.040**	**0.055**	**mg/Kg-dry**	1	12/8/2021 03:21
1,3,5-Trimethylbenzene	**0.23**		**0.064**	**0.18**	**mg/Kg-dry**	1	12/8/2021 03:21
Benzene	**0.72**		**0.026**	**0.055**	**mg/Kg-dry**	1	12/8/2021 03:21
Ethylbenzene	**0.23**		**0.012**	**0.055**	**mg/Kg-dry**	1	12/8/2021 03:21
m,p-Xylene	**0.94**		**0.073**	**0.11**	**mg/Kg-dry**	1	12/8/2021 03:21
o-Xylene	**0.46**		**0.021**	**0.055**	**mg/Kg-dry**	1	12/8/2021 03:21
Toluene	**1.1**		**0.015**	**0.055**	**mg/Kg-dry**	1	12/8/2021 03:21
Xylenes, Total	**1.4**		**0.073**	**0.16**	**mg/Kg-dry**	1	12/8/2021 03:21
Surr: 1,2-Dichloroethane-d4	*107*			*70-130*	*%REC*	1	12/8/2021 03:21
Surr: 4-Bromofluorobenzene	*105*			*70-130*	*%REC*	1	12/8/2021 03:21
Surr: Dibromofluoromethane	*102*			*70-130*	*%REC*	1	12/8/2021 03:21
Surr: Toluene-d8	*100*			*70-130*	*%REC*	1	12/8/2021 03:21
ELECTRICAL CONDUCTIVITY (SAR)		Method:	**USDA H60 METHOD 20B**		Prep: USDA Method 20B / 12/12/21		Analyst: **KNC**
Electrical Conductivity @ Saturation	**11**		**0.011**	**0.10**	**mmhos/cm @25°C**	20	12/13/2021 16:41
CHROMIUM, HEXAVALENT		Method:	**SW7196A**		Prep: SW3060A / 12/14/21		Analyst: **RZM**
Chromium, Hexavalent	U		1.1	1.3	mg/Kg-dry	1	12/15/2021 18:24
MOISTURE		Method:	**SW3550C**				Analyst: **ALG**
Moisture	**24**		**0.10**	**0.10**	**% of sample**	1	12/9/2021 13:57
PH MEASURED IN SOIL PASTE		Method:	**USDA METHOD 20B**		Prep: USDA Method 20B / 12/12/21		Analyst: **KNC**
pH @ Saturation	**9.96**		**0.13**	**0.13**	**C-dry**	1	12/13/2021 15:26

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

Client: Entrada Consulting Group
Project: 38 Header Spill
Sample ID: 38HDR-SS7
Collection Date: 11/30/2021 01:25 PM

Work Order: 21120317
Lab ID: 21120317-08
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID		Method: **SW8015D**			Prep: SW3550 / 12/13/21		Analyst: **SJB**
ERO (C10-C36)	**34**		**9.6**	**25**	**mg/Kg-dry**	1	12/14/2021 10:33
Surr: 4-Terphenyl-d14	*75.5*			*25-110*	*%REC*	1	12/14/2021 10:33
GASOLINE RANGE ORGANICS BY GC-FID		Method: **SW8015D**			Prep: SW5035A / 12/6/21		Analyst: **SJB**
GRO (C6-C10)	**110**		**3.2**	**7.6**	**mg/Kg-dry**	1	12/7/2021 14:40
Surr: Toluene-d8	*99.7*			*71-123*	*%REC*	1	12/7/2021 14:40
METALS BY ICP-MS		Method: **SW6020B**			Prep: SW3050B / 12/12/21		Analyst: **DSC**
Arsenic	**7.4**		**0.053**	**0.44**	**mg/Kg-dry**	1	12/13/2021 22:26
Barium	**220**		**4.1**	**4.4**	**mg/Kg-dry**	10	12/14/2021 20:00
Cadmium	**0.15**	J	**0.026**	**0.18**	**mg/Kg-dry**	1	12/13/2021 22:26
Copper	**14**		**0.44**	**0.44**	**mg/Kg-dry**	1	12/13/2021 22:26
Lead	**21**		**0.21**	**0.44**	**mg/Kg-dry**	1	12/13/2021 22:26
Nickel	**18**		**0.23**	**0.44**	**mg/Kg-dry**	1	12/13/2021 22:26
Selenium	**1.3**		**0.41**	**0.44**	**mg/Kg-dry**	1	12/13/2021 22:26
Silver	**0.084**	J	**0.058**	**0.44**	**mg/Kg-dry**	1	12/13/2021 22:26
Zinc	**81**		**0.86**	**0.88**	**mg/Kg-dry**	1	12/13/2021 22:26
SOLUBLE CATIONS FOR SAR		Method: **SW6020B**			Prep: USDA Method 20B / 12/12/21		Analyst: **STP**
Calcium	**970**		**2.5**	**5.0**	**mg/L**	10	12/13/2021 14:34
Magnesium	**76**		**0.50**	**2.0**	**mg/L**	10	12/14/2021 15:14
Sodium	**1,600**		**1.8**	**2.0**	**mg/L**	10	12/14/2021 15:14
HOT WATER SOLUBLE BORON BY ICP-MS		Method: **SW6020B**			Prep: EXTRACT / 12/13/21		Analyst: **STP**
Boron (Hot Water Soluble)	**2.5**		**0.021**	**0.52**	**mg/Kg-dry**	10	12/13/2021 20:17
SODIUM ADSORPTION RATIO		Method: **USDA H60 METHOD 20B**			Prep: USDA Method 20B / 12/12/21		Analyst: **STP**
Sodium Adsorption Ratio	**13**		**0.010**	**0.010**	**none**	1	12/13/2021
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS)		Method: **SW8270E**			Prep: SW3546 / 12/10/21		Analyst: **EEW**
1-Methylnaphthalene	**0.16**		**0.0092**	**0.015**	**mg/Kg-dry**	1	12/11/2021 02:45
2-Methylnaphthalene	**0.16**		**0.011**	**0.015**	**mg/Kg-dry**	1	12/11/2021 02:45
Acenaphthene	U		0.013	0.015	mg/Kg-dry	1	12/11/2021 02:45
Anthracene	U		0.014	0.015	mg/Kg-dry	1	12/11/2021 02:45
Benzo(a)anthracene	U		0.015	0.015	mg/Kg-dry	1	12/11/2021 02:45
Benzo(a)pyrene	U		0.012	0.015	mg/Kg-dry	1	12/11/2021 02:45
Benzo(b)fluoranthene	U		0.013	0.015	mg/Kg-dry	1	12/11/2021 02:45
Benzo(k)fluoranthene	U		0.013	0.015	mg/Kg-dry	1	12/11/2021 02:45
Chrysene	U		0.014	0.015	mg/Kg-dry	1	12/11/2021 02:45

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

Client: Entrada Consulting Group
Project: 38 Header Spill
Sample ID: 38HDR-SS7
Collection Date: 11/30/2021 01:25 PM

Work Order: 21120317
Lab ID: 21120317-08
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Dibenzo(a,h)anthracene	U		0.013	0.015	mg/Kg-dry	1	12/11/2021 02:45
Fluoranthene	U		0.012	0.015	mg/Kg-dry	1	12/11/2021 02:45
Fluorene	U		0.012	0.015	mg/Kg-dry	1	12/11/2021 02:45
Indeno(1,2,3-cd)pyrene	U		0.013	0.015	mg/Kg-dry	1	12/11/2021 02:45
Naphthalene	**0.050**		**0.015**	**0.015**	**mg/Kg-dry**	1	12/11/2021 02:45
Pyrene	U		0.015	0.015	mg/Kg-dry	1	12/11/2021 02:45
Surr: 2-Fluorobiphenyl	*91.9*			*20-140*	*%REC*	1	12/11/2021 02:45
Surr: 4-Terphenyl-d14	*77.7*			*22-172*	*%REC*	1	12/11/2021 02:45
Surr: Nitrobenzene-d5	*88.2*			*28-140*	*%REC*	1	12/11/2021 02:45
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260C**		Prep: SW5035A / 12/6/21		Analyst: **MF**
1,2,4-Trimethylbenzene	**1.1**		**0.033**	**0.046**	**mg/Kg-dry**	1	12/8/2021 03:39
1,3,5-Trimethylbenzene	**0.38**		**0.053**	**0.15**	**mg/Kg-dry**	1	12/8/2021 03:39
Benzene	**0.14**		**0.022**	**0.046**	**mg/Kg-dry**	1	12/8/2021 03:39
Ethylbenzene	**0.18**		**0.0096**	**0.046**	**mg/Kg-dry**	1	12/8/2021 03:39
m,p-Xylene	**0.80**		**0.061**	**0.091**	**mg/Kg-dry**	1	12/8/2021 03:39
o-Xylene	**0.38**		**0.018**	**0.046**	**mg/Kg-dry**	1	12/8/2021 03:39
Toluene	**0.36**		**0.012**	**0.046**	**mg/Kg-dry**	1	12/8/2021 03:39
Xylenes, Total	**1.2**		**0.061**	**0.14**	**mg/Kg-dry**	1	12/8/2021 03:39
Surr: 1,2-Dichloroethane-d4	*121*			*70-130*	*%REC*	1	12/8/2021 03:39
Surr: 4-Bromofluorobenzene	*108*			*70-130*	*%REC*	1	12/8/2021 03:39
Surr: Dibromofluoromethane	*110*			*70-130*	*%REC*	1	12/8/2021 03:39
Surr: Toluene-d8	*104*			*70-130*	*%REC*	1	12/8/2021 03:39
ELECTRICAL CONDUCTIVITY (SAR)		Method:	**USDA H60 METHOD 20B**		Prep: USDA Method 20B / 12/12/21		Analyst: **KNC**
Electrical Conductivity @ Saturation	**14**		**0.011**	**0.10**	**mmhos/cm @25°C**	20	12/13/2021 16:41
CHROMIUM, HEXAVALENT		Method:	**SW7196A**		Prep: SW3060A / 12/14/21		Analyst: **RZM**
Chromium, Hexavalent	U		1.1	1.3	mg/Kg-dry	1	12/15/2021 18:24
MOISTURE		Method:	**SW3550C**				Analyst: **ALG**
Moisture	**23**		**0.10**	**0.10**	**% of sample**	1	12/9/2021 13:57
PH MEASURED IN SOIL PASTE		Method:	**USDA METHOD 20B**		Prep: USDA Method 20B / 12/12/21		Analyst: **KNC**
pH @ Saturation	**9.85**		**0.13**	**0.13**	**C-dry**	1	12/13/2021 15:26

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

Client: Entrada Consulting Group
Project: 38 Header Spill
Sample ID: 38HDR-SS8
Collection Date: 11/30/2021 01:35 PM

Work Order: 21120317
Lab ID: 21120317-09
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID		Method: **SW8015D**			Prep: SW3550 / 12/13/21		Analyst: **SJB**
ERO (C10-C36)	**100**		**9.6**	**25**	**mg/Kg-dry**	1	12/14/2021 11:11
Surr: 4-Terphenyl-d14	*71.8*			*25-110*	*%REC*	1	12/14/2021 11:11
GASOLINE RANGE ORGANICS BY GC-FID		Method: **SW8015D**			Prep: SW5035A / 12/6/21		Analyst: **SJB**
GRO (C6-C10)	U		3.0	7.1	mg/Kg-dry	1	12/7/2021 15:02
Surr: Toluene-d8	*91.6*			*71-123*	*%REC*	1	12/7/2021 15:02
METALS BY ICP-MS		Method: **SW6020B**			Prep: SW3050B / 12/12/21		Analyst: **DSC**
Arsenic	**5.4**		**0.053**	**0.44**	**mg/Kg-dry**	1	12/13/2021 22:28
Barium	**60**		**0.40**	**0.44**	**mg/Kg-dry**	1	12/13/2021 22:28
Cadmium	**0.12**	J	**0.026**	**0.18**	**mg/Kg-dry**	1	12/13/2021 22:28
Copper	**9.9**		**0.44**	**0.44**	**mg/Kg-dry**	1	12/13/2021 22:28
Lead	**14**		**0.21**	**0.44**	**mg/Kg-dry**	1	12/13/2021 22:28
Nickel	**12**		**0.23**	**0.44**	**mg/Kg-dry**	1	12/13/2021 22:28
Selenium	**3.4**		**0.40**	**0.44**	**mg/Kg-dry**	1	12/13/2021 22:28
Silver	**0.088**	J	**0.058**	**0.44**	**mg/Kg-dry**	1	12/13/2021 22:28
Zinc	**54**		**0.86**	**0.88**	**mg/Kg-dry**	1	12/13/2021 22:28
SOLUBLE CATIONS FOR SAR		Method: **SW6020B**			Prep: USDA Method 20B / 12/14/21		Analyst: **STP**
Calcium	**780**		**2.5**	**5.0**	**mg/L**	10	12/14/2021 17:13
Magnesium	**310**		**0.50**	**2.0**	**mg/L**	10	12/14/2021 17:13
Sodium	**790**		**1.8**	**2.0**	**mg/L**	10	12/14/2021 17:13
HOT WATER SOLUBLE BORON BY ICP-MS		Method: **SW6020B**			Prep: EXTRACT / 12/13/21		Analyst: **STP**
Boron (Hot Water Soluble)	**1.2**		**0.021**	**0.52**	**mg/Kg-dry**	10	12/13/2021 20:18
SODIUM ADSORPTION RATIO		Method: **USDA H60 METHOD 20B**			Prep: USDA Method 20B / 12/14/21		Analyst: **STP**
Sodium Adsorption Ratio	**6.0**		**0.010**	**0.010**	**none**	1	12/14/2021
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS)		Method: **SW8270E**			Prep: SW3546 / 12/10/21		Analyst: **EEW**
1-Methylnaphthalene	U		0.0095	0.016	mg/Kg-dry	1	12/11/2021 03:00
2-Methylnaphthalene	U		0.011	0.016	mg/Kg-dry	1	12/11/2021 03:00
Acenaphthene	U		0.014	0.016	mg/Kg-dry	1	12/11/2021 03:00
Anthracene	U		0.014	0.016	mg/Kg-dry	1	12/11/2021 03:00
Benzo(a)anthracene	U		0.015	0.016	mg/Kg-dry	1	12/11/2021 03:00
Benzo(a)pyrene	U		0.013	0.016	mg/Kg-dry	1	12/11/2021 03:00
Benzo(b)fluoranthene	U		0.014	0.016	mg/Kg-dry	1	12/11/2021 03:00
Benzo(k)fluoranthene	U		0.013	0.016	mg/Kg-dry	1	12/11/2021 03:00
Chrysene	U		0.015	0.016	mg/Kg-dry	1	12/11/2021 03:00

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

Client: Entrada Consulting Group
Project: 38 Header Spill
Sample ID: 38HDR-SS8
Collection Date: 11/30/2021 01:35 PM

Work Order: 21120317
Lab ID: 21120317-09
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Dibenzo(a,h)anthracene	U		0.013	0.016	mg/Kg-dry	1	12/11/2021 03:00
Fluoranthene	U		0.013	0.016	mg/Kg-dry	1	12/11/2021 03:00
Fluorene	U		0.012	0.016	mg/Kg-dry	1	12/11/2021 03:00
Indeno(1,2,3-cd)pyrene	U		0.014	0.016	mg/Kg-dry	1	12/11/2021 03:00
Naphthalene	U		0.015	0.016	mg/Kg-dry	1	12/11/2021 03:00
Pyrene	U		0.015	0.016	mg/Kg-dry	1	12/11/2021 03:00
Surr: 2-Fluorobiphenyl	*88.7*			*20-140*	*%REC*	1	12/11/2021 03:00
Surr: 4-Terphenyl-d14	*74.8*			*22-172*	*%REC*	1	12/11/2021 03:00
Surr: Nitrobenzene-d5	*85.6*			*28-140*	*%REC*	1	12/11/2021 03:00
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260C**		Prep: SW5035A / 12/6/21		Analyst: **MF**
1,2,4-Trimethylbenzene	U		0.031	0.042	mg/Kg-dry	1	12/8/2021 03:57
1,3,5-Trimethylbenzene	U		0.049	0.14	mg/Kg-dry	1	12/8/2021 03:57
Benzene	U		0.020	0.042	mg/Kg-dry	1	12/8/2021 03:57
Ethylbenzene	U		0.0089	0.042	mg/Kg-dry	1	12/8/2021 03:57
m,p-Xylene	U		0.056	0.085	mg/Kg-dry	1	12/8/2021 03:57
o-Xylene	U		0.016	0.042	mg/Kg-dry	1	12/8/2021 03:57
Toluene	U		0.012	0.042	mg/Kg-dry	1	12/8/2021 03:57
Xylenes, Total	U		0.056	0.13	mg/Kg-dry	1	12/8/2021 03:57
Surr: 1,2-Dichloroethane-d4	*108*			*70-130*	*%REC*	1	12/8/2021 03:57
Surr: 4-Bromofluorobenzene	*103*			*70-130*	*%REC*	1	12/8/2021 03:57
Surr: Dibromofluoromethane	*101*			*70-130*	*%REC*	1	12/8/2021 03:57
Surr: Toluene-d8	*101*			*70-130*	*%REC*	1	12/8/2021 03:57
ELECTRICAL CONDUCTIVITY (SAR)		Method:	**USDA H60 METHOD 20B**		Prep: USDA Method 20B / 12/14/21		Analyst: **JMJ**
Electrical Conductivity @ Saturation	**10**		**0.011**	**0.10**	**mmhos/cm @25°C**	20	12/14/2021 11:38
CHROMIUM, HEXAVALENT		Method:	**SW7196A**		Prep: SW3060A / 12/14/21		Analyst: **RZM**
Chromium, Hexavalent	U		1.1	1.3	mg/Kg-dry	1	12/15/2021 18:24
MOISTURE		Method:	**SW3550C**				Analyst: **ALG**
Moisture	**23**		**0.10**	**0.10**	**% of sample**	1	12/9/2021 13:57
PH MEASURED IN SOIL PASTE		Method:	**USDA METHOD 20B**		Prep: USDA Method 20B / 12/14/21		Analyst: **KNC**
pH @ Saturation	**9.58**		**0.13**	**0.13**	**s.u.-dry**	1	12/14/2021 09:36

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

Batch ID: **188379** Instrument ID **GC8** Method: **SW8015D**

MBLK Sample ID: **DBLKS1-188379-188379** Units: **mg/Kg** Analysis Date: **12/7/2021 12:48 AM**

Client ID: Run ID: **GC8_211206C** SeqNo: **8005042** Prep Date: **12/6/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
ERO (C10-C36)	U	20								
Surr: 4-Terphenyl-d14	*2.439*	0	*3.33*	0	*73.2*	*25-110*	0			

LCS Sample ID: **DLCSS1-188379-188379** Units: **mg/Kg** Analysis Date: **12/7/2021 01:25 AM**

Client ID: Run ID: **GC8_211206C** SeqNo: **8005043** Prep Date: **12/6/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
ERO (C10-C36)	726.5	20	667	0	109	50-133	0			
Surr: 4-Terphenyl-d14	*2.442*	0	*3.33*	0	*73.3*	*25-110*	0			

MS Sample ID: **21120297-03B MS** Units: **mg/Kg** Analysis Date: **12/7/2021 02:02 AM**

Client ID: Run ID: **GC8_211206C** SeqNo: **8005044** Prep Date: **12/6/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
ERO (C10-C36)	716.7	20	657.6	3.347	108	50-133	0			
Surr: 4-Terphenyl-d14	*2.295*	0	*3.283*	0	*69.9*	*25-110*	0			

MSD Sample ID: **21120297-03B MSD** Units: **mg/Kg** Analysis Date: **12/7/2021 02:40 AM**

Client ID: Run ID: **GC8_211206C** SeqNo: **8005045** Prep Date: **12/6/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
ERO (C10-C36)	687.1	19	640.5	3.347	107	50-133	716.7	4.22	30	
Surr: 4-Terphenyl-d14	*2.129*	0	*3.198*	0	*66.6*	*25-110*	2.295	*7.51*	*30*	

The following samples were analyzed in this batch: 21120317-01A

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

Client: Entrada Consulting Group
Work Order: 21120317
Project: 38 Header Spill

QC BATCH REPORT

Batch ID: **188750** Instrument ID **GC8** Method: **SW8015D**

MBLK Sample ID: **DBLKS1-188750-188750** Units: **mg/Kg** Analysis Date: **12/14/2021 02:29 AM**
Client ID: Run ID: **GC8_211213A** SeqNo: **8027012** Prep Date: **12/13/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
ERO (C10-C36)	U	20								
Surr: 4-Terphenyl-d14	*2.781*	0	*3.33*	0	*83.5*	*25-110*	0			

LCS Sample ID: **DLCSS1-188750-188750** Units: **mg/Kg** Analysis Date: **12/14/2021 03:06 AM**
Client ID: Run ID: **GC8_211213A** SeqNo: **8027013** Prep Date: **12/13/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
ERO (C10-C36)	695.8	20	667	0	104	50-133	0			
Surr: 4-Terphenyl-d14	*2.971*	0	*3.33*	0	*89.2*	*25-110*	0			

MS Sample ID: **21120317-03A MS** Units: **mg/Kg** Analysis Date: **12/14/2021 03:43 AM**
Client ID: **38HDR-SS2** Run ID: **GC8_211213A** SeqNo: **8027014** Prep Date: **12/13/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
ERO (C10-C36)	826.7	20	660.7	33.88	120	50-133	0			
Surr: 4-Terphenyl-d14	*2.89*	0	*3.299*	0	*87.6*	*25-110*	0			

MSD Sample ID: **21120317-03A MSD** Units: **mg/Kg** Analysis Date: **12/14/2021 04:20 AM**
Client ID: **38HDR-SS2** Run ID: **GC8_211213A** SeqNo: **8027015** Prep Date: **12/13/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
ERO (C10-C36)	744.1	20	664.1	33.88	107	50-133	826.7	10.5	30	
Surr: 4-Terphenyl-d14	*2.842*	0	*3.315*	0	*85.7*	*25-110*	2.89	*1.67*	*30*	

The following samples were analyzed in this batch:

21120317-02A	21120317-03A	21120317-04A
21120317-05A	21120317-06A	21120317-07A
21120317-08A	21120317-09A	

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

Client: Entrada Consulting Group
Work Order: 21120317
Project: 38 Header Spill

QC BATCH REPORT

Batch ID: **188393** Instrument ID **GC9** Method: **SW8015D**

MBLK Sample ID: **MBLK-188393-188393** Units: **µg/Kg-dry** Analysis Date: **12/7/2021 09:54 AM**
Client ID: Run ID: **GC9_211206A** SeqNo: **8005403** Prep Date: **12/6/2021** 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	*4689*	0	*5000*	0	*93.8*	*71-123*	0			

LCS Sample ID: **LCS-188393-188393** Units: **µg/Kg-dry** Analysis Date: **12/7/2021 09:10 AM**
Client ID: Run ID: **GC9_211206A** SeqNo: **8005402** Prep Date: **12/6/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	270200	5,000	250000	0	108	71-123	0			
Surr: Toluene-d8	*4980*	0	*5000*	0	*99.6*	*71-123*	0			

MS Sample ID: **21120317-02A MS** Units: **µg/Kg-dry** Analysis Date: **12/7/2021 12:28 PM**
Client ID: **38HDR-SS1** Run ID: **GC9_211206A** SeqNo: **8005410** Prep Date: **12/6/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	550300	5,900	293900	222300	112	71-123	0			
Surr: Toluene-d8	*6751*	0	*5878*	0	*115*	*71-123*	0			

MSD Sample ID: **21120317-02A MSD** Units: **µg/Kg-dry** Analysis Date: **12/7/2021 12:50 PM**
Client ID: **38HDR-SS1** Run ID: **GC9_211206A** SeqNo: **8005411** Prep Date: **12/6/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	557100	5,900	293900	222300	114	71-123	550300	1.23	30	
Surr: Toluene-d8	*6741*	0	*5878*	0	*115*	*71-123*	6751	*0.148*	*30*	

The following samples were analyzed in this batch:

21120317-02A	21120317-03A	21120317-04A
21120317-05A	21120317-06A	21120317-07A
21120317-08A	21120317-09A	

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

Client: Entrada Consulting Group
Work Order: 21120317
Project: 38 Header Spill

QC BATCH REPORT

Batch ID: **188394** Instrument ID **GC9** Method: **SW8015D**

MBLK Sample ID: **MBLK-188394-188394** Units: **µg/Kg-dry** Analysis Date: **12/7/2021 05:51 AM**
Client ID: Run ID: **GC9_211206A** SeqNo: **8005393** Prep Date: **12/6/2021** 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	*4106*	0	*5000*	0	*82.1*	*71-123*	0			

LCS Sample ID: **LCS-188394-188394** Units: **µg/Kg-dry** Analysis Date: **12/7/2021 05:07 AM**
Client ID: Run ID: **GC9_211206A** SeqNo: **8005392** Prep Date: **12/6/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	230500	5,000	250000	0	92.2	71-123	0			
Surr: Toluene-d8	*4648*	0	*5000*	0	*93*	*71-123*	0			

MS Sample ID: **21120317-01A MS** Units: **µg/Kg-dry** Analysis Date: **12/7/2021 07:42 AM**
Client ID: **38HDR-Bulk Leak (4')** Run ID: **GC9_211206A** SeqNo: **8005398** Prep Date: **12/6/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	318700	5,800	290800	0	110	71-123	0			H
Surr: Toluene-d8	*5730*	0	*5817*	0	*98.5*	*71-123*	0			

MSD Sample ID: **21120317-01A MSD** Units: **µg/Kg-dry** Analysis Date: **12/7/2021 08:04 AM**
Client ID: **38HDR-Bulk Leak (4')** Run ID: **GC9_211206A** SeqNo: **8005399** Prep Date: **12/6/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	299600	5,800	290800	0	103	71-123	318700	6.21	30	H
Surr: Toluene-d8	*5500*	0	*5817*	0	*94.6*	*71-123*	5730	*4.1*	*30*	

The following samples were analyzed in this batch: 21120317-01A

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

Client: Entrada Consulting Group
Work Order: 21120317
Project: 38 Header Spill

QC BATCH REPORT

Batch ID: **188711** Instrument ID **ICPMS4** Method: **SW6020B**

MBLK Sample ID: **MBLK-188711-188711** Units: **mg/Kg** Analysis Date: **12/13/2021 09:16 PM**
Client ID: Run ID: **ICPMS4_211213B** SeqNo: **8024446** Prep Date: **12/12/2021** 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								
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-188711-188711** Units: **mg/Kg** Analysis Date: **12/13/2021 09:19 PM**
Client ID: Run ID: **ICPMS4_211213B** SeqNo: **8024447** Prep Date: **12/12/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.688	0.25	5	0	93.8	80-120	0			
Barium	4.767	0.25	5	0	95.3	80-120	0			
Cadmium	4.742	0.10	5	0	94.8	80-120	0			
Copper	4.891	0.25	5	0	97.8	80-120	0			
Lead	4.72	0.25	5	0	94.4	80-120	0			
Nickel	4.812	0.25	5	0	96.2	80-120	0			
Selenium	4.763	0.25	5	0	95.3	80-120	0			
Silver	4.492	0.25	5	0	89.8	80-120	0			
Zinc	4.74	0.50	5	0	94.8	80-120	0			

MS Sample ID: **21120510-04BMS** Units: **mg/Kg** Analysis Date: **12/13/2021 10:07 PM**
Client ID: Run ID: **ICPMS4_211213B** SeqNo: **8024470** Prep Date: **12/12/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	11.22	0.40	8.064	2.919	103	75-125	0			
Barium	30.29	0.40	8.064	19.53	133	75-125	0			S
Cadmium	7.636	0.16	8.064	0.09003	93.6	75-125	0			
Copper	13.58	0.40	8.064	7.07	80.7	75-125	0			
Lead	23.86	0.40	8.064	36.55	-157	75-125	0			SO
Nickel	14.41	0.40	8.064	6.376	99.7	75-125	0			
Selenium	7.724	0.40	8.064	0.06858	94.9	75-125	0			
Silver	7.214	0.40	8.064	0.02305	89.2	75-125	0			
Zinc	22.2	0.81	8.064	21.4	9.85	75-125	0			S

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

Client: Entrada Consulting Group
Work Order: 21120317
Project: 38 Header Spill

QC BATCH REPORT

Batch ID: **188711** Instrument ID **ICPMS4** Method: **SW6020B**

MSD Sample ID: **21120510-04BMSD** Units: **mg/Kg** Analysis Date: **12/13/2021 10:09 PM**
Client ID: Run ID: **ICPMS4_211213B** SeqNo: **8024471** Prep Date: **12/12/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	10.59	0.41	8.104	2.919	94.6	75-125	11.22	5.81	20	
Barium	43.91	0.41	8.104	19.53	301	75-125	30.29	36.7	20	SR
Cadmium	7.375	0.16	8.104	0.09003	89.9	75-125	7.636	3.49	20	
Copper	14.53	0.41	8.104	7.07	92	75-125	13.58	6.78	20	
Lead	21.96	0.41	8.104	36.55	-180	75-125	23.86	8.28	20	SO
Nickel	15.19	0.41	8.104	6.376	109	75-125	14.41	5.27	20	
Selenium	7.537	0.41	8.104	0.06858	92.2	75-125	7.724	2.45	20	
Silver	6.888	0.41	8.104	0.02305	84.7	75-125	7.214	4.63	20	
Zinc	22.78	0.81	8.104	21.4	17	75-125	22.2	2.59	20	S

The following samples were analyzed in this batch:

21120317-01A	21120317-02A	21120317-03A
21120317-04A	21120317-05A	21120317-06A
21120317-07A		

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

Client: Entrada Consulting Group
Work Order: 21120317
Project: 38 Header Spill

QC BATCH REPORT

Batch ID: **188724** Instrument ID **ICPMS4** Method: **SW6020B**

MBLK Sample ID: **MBLK-188724-188724** Units: **mg/Kg** Analysis Date: **12/13/2021 10:21 PM**
Client ID: Run ID: **ICPMS4_211213B** SeqNo: **8024476** Prep Date: **12/12/2021** 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								
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-188724-188724** Units: **mg/Kg** Analysis Date: **12/13/2021 10:23 PM**
Client ID: Run ID: **ICPMS4_211213B** SeqNo: **8024477** Prep Date: **12/12/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.253	0.25	5	0	85.1	80-120	0			
Barium	4.382	0.25	5	0	87.6	80-120	0			
Cadmium	4.321	0.10	5	0	86.4	80-120	0			
Copper	4.468	0.25	5	0	89.4	80-120	0			
Lead	4.349	0.25	5	0	87	80-120	0			
Nickel	4.296	0.25	5	0	85.9	80-120	0			
Selenium	4.31	0.25	5	0	86.2	80-120	0			
Silver	4.242	0.25	5	0	84.8	80-120	0			
Zinc	4.267	0.50	5	0	85.3	80-120	0			

MS Sample ID: **21120750-01AMS** Units: **mg/Kg** Analysis Date: **12/13/2021 10:47 PM**
Client ID: Run ID: **ICPMS4_211213B** SeqNo: **8024488** Prep Date: **12/12/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	7.045	0.39	7.788	1.855	66.7	75-125	0			S
Barium	77.7	0.39	7.788	100.2	-289	75-125	0			SO
Cadmium	5.855	0.16	7.788	0.2341	72.2	75-125	0			S
Copper	98.74	0.39	7.788	133	-440	75-125	0			SO
Lead	5.168	0.39	7.788	2.202	38.1	75-125	0			S
Nickel	8.969	0.39	7.788	5.043	50.4	75-125	0			S
Selenium	7.371	0.39	7.788	1.855	70.8	75-125	0			S
Silver	6.191	0.39	7.788	0.908	67.8	75-125	0			S
Zinc	150.9	0.78	7.788	203.5	-676	75-125	0			SEO

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

Client: Entrada Consulting Group
Work Order: 21120317
Project: 38 Header Spill

QC BATCH REPORT

Batch ID: **188724** Instrument ID **ICPMS4** Method: **SW6020B**

MSD Sample ID: **21120750-01AMSD** Units: **mg/Kg** Analysis Date: **12/13/2021 10:50 PM**
Client ID: Run ID: **ICPMS4_211213B** SeqNo: **8024489** Prep Date: **12/12/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	8.181	0.38	7.519	1.855	84.1	75-125	7.045	14.9	20	
Barium	93.19	0.38	7.519	100.2	-93.5	75-125	77.7	18.1	20	SO
Cadmium	6.661	0.15	7.519	0.2341	85.5	75-125	5.855	12.9	20	
Copper	117.6	0.38	7.519	133	-205	75-125	98.74	17.4	20	SO
Lead	5.525	0.38	7.519	2.202	44.2	75-125	5.168	6.67	20	S
Nickel	10.75	0.38	7.519	5.043	75.9	75-125	8.969	18.1	20	
Selenium	8.569	0.38	7.519	1.855	89.3	75-125	7.371	15	20	
Silver	6.839	0.38	7.519	0.908	78.9	75-125	6.191	9.95	20	
Zinc	180	0.75	7.519	203.5	-313	75-125	150.9	17.6	20	SEO

The following samples were analyzed in this batch: 21120317-08A 21120317-09A

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

Client: Entrada Consulting Group
Work Order: 21120317
Project: 38 Header Spill

QC BATCH REPORT

Batch ID: **188730** Instrument ID **ICPMS3** Method: **SW6020B**

DUP Sample ID: **21120313-02A dup** Units: **mg/L** Analysis Date: **12/13/2021 02:09 PM**
Client ID: Run ID: **ICPMS3_211213A** SeqNo: **8023464** Prep Date: **12/12/2021** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	172.8	5.0	0	0	0	0-0	182.7	5.55		

DUP Sample ID: **21120313-02A dup** Units: **mg/L** Analysis Date: **12/14/2021 02:50 PM**
Client ID: Run ID: **ICPMS3_211214A** SeqNo: **8027135** Prep Date: **12/12/2021** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Magnesium	40.42	2.0	0	0	0	0-0	41.12	1.72		
Sodium	15.58	2.0	0	0	0	0-0	16.36	4.87		

The following samples were analyzed in this batch:

21120317-02A	21120317-03A	21120317-04A
21120317-05A	21120317-06A	21120317-07A
21120317-08A		

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

Client: Entrada Consulting Group
Work Order: 21120317
Project: 38 Header Spill

QC BATCH REPORT

Batch ID: **188800** Instrument ID **ICPMS3** Method: **SW6020B**

MBLK Sample ID: **MBLK-188800-188800** Units: **mg/Kg** Analysis Date: **12/13/2021 07:44 PM**
Client ID: Run ID: **ICPMS3_211213B** SeqNo: **8026029** Prep Date: **12/13/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Boron (Hot Water Soluble)	0.01403	0.040								J

LCS Sample ID: **LCS-188800-188800** Units: **mg/Kg** Analysis Date: **12/13/2021 07:46 PM**
Client ID: Run ID: **ICPMS3_211213B** SeqNo: **8026030** Prep Date: **12/13/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Boron (Hot Water Soluble)	0.8827	0.040	1	0	88.3	80-120	0			

The following samples were analyzed in this batch:

21120317-01A	21120317-02A	21120317-03A
21120317-04A	21120317-05A	21120317-06A
21120317-07A	21120317-08A	21120317-09A

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

Client: Entrada Consulting Group
Work Order: 21120317
Project: 38 Header Spill

QC BATCH REPORT

Batch ID: **188886** Instrument ID **ICPMS3** Method: **SW6020B**

DUP Sample ID: **21120482-01Adup** Units: **mg/L** Analysis Date: **12/14/2021 05:18 PM**

Client ID: Run ID: **ICPMS3_211214A** SeqNo: **8029355** Prep Date: **12/14/2021** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	276.2	5.0	0	0	0	0-0	197	33.5		
Magnesium	102	2.0	0	0	0	0-0	71.99	34.5		
Sodium	371.8	2.0	0	0	0	0-0	282.1	27.5		

The following samples were analyzed in this batch: 21120317-01A 21120317-09A

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

Client: Entrada Consulting Group
Work Order: 21120317
Project: 38 Header Spill

QC BATCH REPORT

Batch ID: **188730** Instrument ID **SAR** Method: **USDA H60 Metho**

DUP	Sample ID: **21120313-02A dup**				Units: **none**		Analysis Date: **12/13/2021**			
Client ID:		Run ID: **SAR_211213A**			SeqNo: **8027334**		Prep Date: **12/12/2021**		DF: **1**	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	0.2772	0.010	0	0	0		0.2846	2.62	50	

The following samples were analyzed in this batch:

21120317-02A	21120317-03A	21120317-04A
21120317-05A	21120317-06A	21120317-07A
21120317-08A		

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

Client: Entrada Consulting Group
Work Order: 21120317
Project: 38 Header Spill

QC BATCH REPORT

Batch ID: **188886** Instrument ID **SAR** Method: **USDA H60 Metho**

DUP	Sample ID: **21120482-01Adup**				Units: **none**		Analysis Date: **12/14/2021**			
Client ID:		Run ID: **SAR_211214A**			SeqNo: **8031262**		Prep Date: **12/14/2021**		DF: **1**	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	4.857	0.010	0	0	0		4.372	10.5	50	

The following samples were analyzed in this batch: 21120317-01A 21120317-09A

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

Batch ID: **188384** Instrument ID **SVMS6** Method: **SW8270E**

MBLK Sample ID: **SBLKS1-188384-188384** Units: **µg/Kg** Analysis Date: **12/6/2021 06:29 PM**

Client ID: Run ID: **SVMS6_211206A** SeqNo: **8004865** Prep Date: **12/6/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1-Methylnaphthalene	U	4.2								
2-Methylnaphthalene	U	4.2								
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	*595.1*	0	*666.6*	0	*89.3*	*20-140*	0			
Surr: 4-Terphenyl-d14	*479.2*	0	*666.6*	0	*71.9*	*22-172*	0			
Surr: Nitrobenzene-d5	*602.3*	0	*666.6*	0	*90.4*	*28-140*	0			

LCS Sample ID: **SLCSS1-188384-188384** Units: **µg/Kg** Analysis Date: **12/6/2021 06:45 PM**

Client ID: Run ID: **SVMS6_211206A** SeqNo: **8004866** Prep Date: **12/6/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1-Methylnaphthalene	645.2	4.2	666.6	0	96.8	40-140	0			
2-Methylnaphthalene	609.3	4.2	666.6	0	91.4	40-140	0			
Acenaphthene	570.4	4.2	666.6	0	85.6	40-140	0			
Anthracene	625.2	4.2	666.6	0	93.8	40-140	0			
Benzo(a)anthracene	446.3	4.2	666.6	0	66.9	40-140	0			
Benzo(a)pyrene	568.9	4.2	666.6	0	85.3	40-140	0			
Benzo(b)fluoranthene	499	4.2	666.6	0	74.9	40-140	0			
Benzo(k)fluoranthene	569.7	4.2	666.6	0	85.5	40-140	0			
Chrysene	466.1	4.2	666.6	0	69.9	40-140	0			
Dibenzo(a,h)anthracene	513.7	4.2	666.6	0	77.1	40-140	0			
Fluoranthene	597	4.2	666.6	0	89.6	40-140	0			
Fluorene	563.4	4.2	666.6	0	84.5	40-140	0			
Indeno(1,2,3-cd)pyrene	550.9	4.2	666.6	0	82.6	40-140	0			
Naphthalene	618.9	4.2	666.6	0	92.8	40-140	0			
Pyrene	408.1	4.2	666.6	0	61.2	40-140	0			
Surr: 2-Fluorobiphenyl	*601.7*	0	*666.6*	0	*90.3*	*20-140*	0			
Surr: 4-Terphenyl-d14	*485.7*	0	*666.6*	0	*72.9*	*22-172*	0			
Surr: Nitrobenzene-d5	*536.4*	0	*666.6*	0	*80.5*	*28-140*	0			

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

Client: Entrada Consulting Group
Work Order: 21120317
Project: 38 Header Spill

QC BATCH REPORT

Batch ID: **188384** Instrument ID **SVMS6** Method: **SW8270E**

MS	Sample ID: **21120289-01B MS**				Units: **µg/Kg**			Analysis Date: **12/6/2021 07:16 PM**			
Client ID:		Run ID: **SVMS6_211206A**			SeqNo: **8004868**			Prep Date: **12/6/2021**		DF: **1**	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1-Methylnaphthalene	580.6	4.1	658	0	88.2	40-140	0			
2-Methylnaphthalene	572	4.1	658	0	86.9	40-140	0			
Acenaphthene	304.2	4.1	658	0	46.2	40-140	0			
Anthracene	325.3	4.1	658	0	49.4	40-140	0			
Benzo(a)anthracene	254.8	4.1	658	0	38.7	40-140	0			S
Benzo(a)pyrene	27.05	4.1	658	0	4.11	40-140	0			S
Benzo(b)fluoranthene	259.8	4.1	658	0	39.5	40-140	0			S
Benzo(k)fluoranthene	304.8	4.1	658	0	46.3	40-140	0			
Chrysene	270	4.1	658	0	41	40-140	0			
Dibenzo(a,h)anthracene	203.2	4.1	658	0	30.9	40-140	0			S
Fluoranthene	460.4	4.1	658	0	70	40-140	0			
Fluorene	420.2	4.1	658	0	63.9	40-140	0			
Indeno(1,2,3-cd)pyrene	182.2	4.1	658	0	27.7	40-140	0			S
Naphthalene	583.5	4.1	658	0	88.7	40-140	0			
Pyrene	268.5	4.1	658	0	40.8	40-140	0			
Surr: 2-Fluorobiphenyl	*562.5*	0	*658*	0	*85.5*	*20-140*	0			
Surr: 4-Terphenyl-d14	*212.7*	0	*658*	0	*32.3*	*22-172*	0			
Surr: Nitrobenzene-d5	*436.1*	0	*658*	0	*66.3*	*28-140*	0			

MSD	Sample ID: **21120289-01B MSD**				Units: **µg/Kg**			Analysis Date: **12/6/2021 07:32 PM**			
Client ID:		Run ID: **SVMS6_211206A**			SeqNo: **8004869**			Prep Date: **12/6/2021**		DF: **1**	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1-Methylnaphthalene	500.4	4.1	657.2	0	76.1	40-140	580.6	14.8	30	
2-Methylnaphthalene	502.2	4.1	657.2	0	76.4	40-140	572	13	30	
Acenaphthene	293.9	4.1	657.2	0	44.7	40-140	304.2	3.43	30	
Anthracene	257.2	4.1	657.2	0	39.1	40-140	325.3	23.4	30	S
Benzo(a)anthracene	119.2	4.1	657.2	0	18.1	40-140	254.8	72.5	30	SR
Benzo(a)pyrene	22.68	4.1	657.2	0	3.45	40-140	27.05	17.6	30	S
Benzo(b)fluoranthene	121.2	4.1	657.2	0	18.4	40-140	259.8	72.7	30	SR
Benzo(k)fluoranthene	143.1	4.1	657.2	0	21.8	40-140	304.8	72.2	30	SR
Chrysene	129.2	4.1	657.2	0	19.7	40-140	270	70.5	30	SR
Dibenzo(a,h)anthracene	92.18	4.1	657.2	0	14	40-140	203.2	75.2	30	SR
Fluoranthene	259.1	4.1	657.2	0	39.4	40-140	460.4	56	30	SR
Fluorene	329.4	4.1	657.2	0	50.1	40-140	420.2	24.2	30	
Indeno(1,2,3-cd)pyrene	88.96	4.1	657.2	0	13.5	40-140	182.2	68.8	30	SR
Naphthalene	537.8	4.1	657.2	0	81.8	40-140	583.5	8.16	30	
Pyrene	147.5	4.1	657.2	0	22.4	40-140	268.5	58.2	30	SR
Surr: 2-Fluorobiphenyl	*476.8*	0	*657.2*	0	*72.5*	*20-140*	562.5	*16.5*	*30*	
Surr: 4-Terphenyl-d14	*141.3*	0	*657.2*	0	*21.5*	*22-172*	212.7	*40.4*	*30*	*SR*
Surr: Nitrobenzene-d5	*415*	0	*657.2*	0	*63.2*	*28-140*	436.1	*4.94*	*30*	

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

Client: Entrada Consulting Group
Work Order: 21120317
Project: 38 Header Spill

QC BATCH REPORT

Batch ID: **188384** Instrument ID **SVMS6** Method: **SW8270E**

The following samples were analyzed in this batch:	21120317-01A

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

Client: Entrada Consulting Group
Work Order: 21120317
Project: 38 Header Spill

QC BATCH REPORT

Batch ID: **188513** Instrument ID **SVMS6** Method: **SW8270E**

MBLK	Sample ID: **SBLKS1-188513-188513**				Units: **µg/Kg**			Analysis Date: **12/9/2021 12:23 PM**		
Client ID:	Run ID: **SVMS6_211209A**				SeqNo: **8018286**			Prep Date: **12/8/2021**		DF: **1**
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1-Methylnaphthalene	U	4.2								
2-Methylnaphthalene	U	4.2								
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	*611.3*	0	*666.6*	0	*91.7*	*20-140*	0			
Surr: 4-Terphenyl-d14	*559.4*	0	*666.6*	0	*83.9*	*22-172*	0			
Surr: Nitrobenzene-d5	*650*	0	*666.6*	0	*97.5*	*28-140*	0			

LCS	Sample ID: **SLCSS1-188513-188513**				Units: **µg/Kg**			Analysis Date: **12/9/2021 12:39 PM**		
Client ID:	Run ID: **SVMS6_211209A**				SeqNo: **8018287**			Prep Date: **12/8/2021**		DF: **1**
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1-Methylnaphthalene	670.3	4.2	666.6	0	101	40-140	0			
2-Methylnaphthalene	666.7	4.2	666.6	0	100	40-140	0			
Acenaphthene	633	4.2	666.6	0	95	40-140	0			
Anthracene	660.4	4.2	666.6	0	99.1	40-140	0			
Benzo(a)anthracene	659.5	4.2	666.6	0	98.9	40-140	0			
Benzo(a)pyrene	694.2	4.2	666.6	0	104	40-140	0			
Benzo(b)fluoranthene	614.3	4.2	666.6	0	92.1	40-140	0			
Benzo(k)fluoranthene	617.9	4.2	666.6	0	92.7	40-140	0			
Chrysene	661.1	4.2	666.6	0	99.2	40-140	0			
Dibenzo(a,h)anthracene	610.9	4.2	666.6	0	91.6	40-140	0			
Fluoranthene	689.1	4.2	666.6	0	103	40-140	0			
Fluorene	600.4	4.2	666.6	0	90.1	40-140	0			
Indeno(1,2,3-cd)pyrene	594.4	4.2	666.6	0	89.2	40-140	0			
Naphthalene	632.5	4.2	666.6	0	94.9	40-140	0			
Pyrene	560.9	4.2	666.6	0	84.1	40-140	0			
Surr: 2-Fluorobiphenyl	*606.7*	0	*666.6*	0	*91*	*20-140*	0			
Surr: 4-Terphenyl-d14	*556*	0	*666.6*	0	*83.4*	*22-172*	0			
Surr: Nitrobenzene-d5	*575.1*	0	*666.6*	0	*86.3*	*28-140*	0			

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

Batch ID: **188513** Instrument ID **SVMS6** Method: **SW8270E**

MS Sample ID: **21120322-01B MS** Units: **µg/Kg** Analysis Date: **12/9/2021 02:12 PM**

Client ID: Run ID: **SVMS6_211209A** SeqNo: **8018293** Prep Date: **12/8/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1-Methylnaphthalene	417.5	4.1	657.6	0	63.5	40-140	0			
2-Methylnaphthalene	435.6	4.1	657.6	0	66.2	40-140	0			
Acenaphthene	389.5	4.1	657.6	0	59.2	40-140	0			
Anthracene	385.9	4.1	657.6	0	58.7	40-140	0			
Benzo(a)anthracene	346.1	4.1	657.6	3.993	52	40-140	0			
Benzo(a)pyrene	337.6	4.1	657.6	4.717	50.6	40-140	0			
Benzo(b)fluoranthene	313.1	4.1	657.6	4.057	47	40-140	0			
Benzo(k)fluoranthene	306.7	4.1	657.6	3.558	46.1	40-140	0			
Chrysene	345.7	4.1	657.6	0	52.6	40-140	0			
Dibenzo(a,h)anthracene	274.1	4.1	657.6	0	41.7	40-140	0			
Fluoranthene	424.5	4.1	657.6	7.615	63.4	40-140	0			
Fluorene	365.1	4.1	657.6	0	55.5	40-140	0			
Indeno(1,2,3-cd)pyrene	268.1	4.1	657.6	5.055	40	40-140	0			
Naphthalene	408.5	4.1	657.6	0	62.1	40-140	0			
Pyrene	350.7	4.1	657.6	6.07	52.4	40-140	0			
Surr: 2-Fluorobiphenyl	*403.1*	0	*657.6*	0	*61.3*	*20-140*	0			
Surr: 4-Terphenyl-d14	*294.8*	0	*657.6*	0	*44.8*	*22-172*	0			
Surr: Nitrobenzene-d5	*355.7*	0	*657.6*	0	*54.1*	*28-140*	0			

MSD Sample ID: **21120322-01B MSD** Units: **µg/Kg** Analysis Date: **12/9/2021 02:28 PM**

Client ID: Run ID: **SVMS6_211209A** SeqNo: **8018294** Prep Date: **12/8/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1-Methylnaphthalene	327.4	4.0	637.1	0	51.4	40-140	417.5	24.2	30	
2-Methylnaphthalene	317.9	4.0	637.1	0	49.9	40-140	435.6	31.2	30	R
Acenaphthene	287.7	4.0	637.1	0	45.2	40-140	389.5	30.1	30	R
Anthracene	298.4	4.0	637.1	0	46.8	40-140	385.9	25.6	30	
Benzo(a)anthracene	281.2	4.0	637.1	3.993	43.5	40-140	346.1	20.7	30	
Benzo(a)pyrene	291.1	4.0	637.1	4.717	44.9	40-140	337.6	14.8	30	
Benzo(b)fluoranthene	264.8	4.0	637.1	4.057	40.9	40-140	313.1	16.7	30	
Benzo(k)fluoranthene	261.5	4.0	637.1	3.558	40.5	40-140	306.7	15.9	30	
Chrysene	286.2	4.0	637.1	0	44.9	40-140	345.7	18.8	30	
Dibenzo(a,h)anthracene	244	4.0	637.1	0	38.3	40-140	274.1	11.6	30	S
Fluoranthene	320.3	4.0	637.1	7.615	49.1	40-140	424.5	28	30	
Fluorene	273.3	4.0	637.1	0	42.9	40-140	365.1	28.8	30	
Indeno(1,2,3-cd)pyrene	240.6	4.0	637.1	5.055	37	40-140	268.1	10.8	30	S
Naphthalene	302.1	4.0	637.1	0	47.4	40-140	408.5	29.9	30	
Pyrene	262.2	4.0	637.1	6.07	40.2	40-140	350.7	28.9	30	
Surr: 2-Fluorobiphenyl	*300.6*	0	*637.1*	0	*47.2*	*20-140*	403.1	*29.1*	*30*	
Surr: 4-Terphenyl-d14	*241.2*	0	*637.1*	0	*37.9*	*22-172*	294.8	*20*	*30*	
Surr: Nitrobenzene-d5	*267*	0	*637.1*	0	*41.9*	*28-140*	355.7	*28.5*	*30*	

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

Client: Entrada Consulting Group
Work Order: 21120317
Project: 38 Header Spill

QC BATCH REPORT

Batch ID: **188513** Instrument ID **SVMS6** Method: **SW8270E**

The following samples were analyzed in this batch: 21120317-01A

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

Batch ID: **188648** Instrument ID **SVMS6** Method: **SW8270E**

MBLK Sample ID: **SBLKS1-188648-188648** Units: **µg/Kg** Analysis Date: **12/10/2021 04:07 PM**

Client ID: Run ID: **SVMS6_211210A** SeqNo: **8021550** Prep Date: **12/10/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1-Methylnaphthalene	U	4.2								
2-Methylnaphthalene	U	4.2								
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	*614.5*	0	*666.6*	0	*92.2*	*20-140*	0			
Surr: 4-Terphenyl-d14	*570.7*	0	*666.6*	0	*85.6*	*22-172*	0			
Surr: Nitrobenzene-d5	*670.2*	0	*666.6*	0	*101*	*28-140*	0			

LCS Sample ID: **SLCSS1-188648-188648** Units: **µg/Kg** Analysis Date: **12/10/2021 04:22 PM**

Client ID: Run ID: **SVMS6_211210A** SeqNo: **8021551** Prep Date: **12/10/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1-Methylnaphthalene	632.8	4.2	666.6	0	94.9	40-140	0			
2-Methylnaphthalene	570.6	4.2	666.6	0	85.6	40-140	0			
Acenaphthene	566	4.2	666.6	0	84.9	40-140	0			
Anthracene	589	4.2	666.6	0	88.4	40-140	0			
Benzo(a)anthracene	595.1	4.2	666.6	0	89.3	40-140	0			
Benzo(a)pyrene	625.2	4.2	666.6	0	93.8	40-140	0			
Benzo(b)fluoranthene	546.1	4.2	666.6	0	81.9	40-140	0			
Benzo(k)fluoranthene	541.7	4.2	666.6	0	81.3	40-140	0			
Chrysene	597.7	4.2	666.6	0	89.7	40-140	0			
Dibenzo(a,h)anthracene	567.8	4.2	666.6	0	85.2	40-140	0			
Fluoranthene	595.7	4.2	666.6	0	89.4	40-140	0			
Fluorene	542.4	4.2	666.6	0	81.4	40-140	0			
Indeno(1,2,3-cd)pyrene	535.6	4.2	666.6	0	80.4	40-140	0			
Naphthalene	576.9	4.2	666.6	0	86.5	40-140	0			
Pyrene	514.6	4.2	666.6	0	77.2	40-140	0			
Surr: 2-Fluorobiphenyl	*592.6*	0	*666.6*	0	*88.9*	*20-140*	0			
Surr: 4-Terphenyl-d14	*536.2*	0	*666.6*	0	*80.4*	*22-172*	0			
Surr: Nitrobenzene-d5	*516.1*	0	*666.6*	0	*77.4*	*28-140*	0			

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

Client: Entrada Consulting Group
Work Order: 21120317
Project: 38 Header Spill

QC BATCH REPORT

Batch ID: **188648** Instrument ID **SVMS6** Method: **SW8270E**

MS Sample ID: **21120510-10B MS** Units: **µg/Kg** Analysis Date: **12/10/2021 10:51 PM**
Client ID: Run ID: **SVMS6_211210A** SeqNo: **8021574** Prep Date: **12/10/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1-Methylnaphthalene	592.9	4.0	644	0	92.1	40-140	0			
2-Methylnaphthalene	569.9	4.0	644	0	88.5	40-140	0			
Acenaphthene	550	4.0	644	0	85.4	40-140	0			
Anthracene	579.3	4.0	644	0	90	40-140	0			
Benzo(a)anthracene	587.3	4.0	644	0	91.2	40-140	0			
Benzo(a)pyrene	616.1	4.0	644	0	95.7	40-140	0			
Benzo(b)fluoranthene	529.5	4.0	644	0	82.2	40-140	0			
Benzo(k)fluoranthene	545.3	4.0	644	0	84.7	40-140	0			
Chrysene	587.3	4.0	644	0	91.2	40-140	0			
Dibenzo(a,h)anthracene	542.3	4.0	644	0	84.2	40-140	0			
Fluoranthene	589.9	4.0	644	0	91.6	40-140	0			
Fluorene	530	4.0	644	0	82.3	40-140	0			
Indeno(1,2,3-cd)pyrene	503.5	4.0	644	0	78.2	40-140	0			
Naphthalene	564.7	4.0	644	0	87.7	40-140	0			
Pyrene	496.3	4.0	644	0	77.1	40-140	0			
Surr: 2-Fluorobiphenyl	*579.8*	0	*644*	0	*90*	*20-140*	0			
Surr: 4-Terphenyl-d14	*524.1*	0	*644*	0	*81.4*	*22-172*	0			
Surr: Nitrobenzene-d5	*526*	0	*644*	0	*81.7*	*28-140*	0			

MSD Sample ID: **21120510-10B MSD** Units: **µg/Kg** Analysis Date: **12/10/2021 11:07 PM**
Client ID: Run ID: **SVMS6_211210A** SeqNo: **8021575** Prep Date: **12/10/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1-Methylnaphthalene	610.1	4.1	648.7	0	94	40-140	592.9	2.86	30	
2-Methylnaphthalene	588.2	4.1	648.7	0	90.7	40-140	569.9	3.17	30	
Acenaphthene	563.3	4.1	648.7	0	86.8	40-140	550	2.39	30	
Anthracene	601	4.1	648.7	0	92.7	40-140	579.3	3.69	30	
Benzo(a)anthracene	596.4	4.1	648.7	0	91.9	40-140	587.3	1.55	30	
Benzo(a)pyrene	623.8	4.1	648.7	0	96.2	40-140	616.1	1.24	30	
Benzo(b)fluoranthene	547.4	4.1	648.7	0	84.4	40-140	529.5	3.32	30	
Benzo(k)fluoranthene	553.7	4.1	648.7	0	85.4	40-140	545.3	1.53	30	
Chrysene	599.4	4.1	648.7	0	92.4	40-140	587.3	2.04	30	
Dibenzo(a,h)anthracene	547.7	4.1	648.7	0	84.4	40-140	542.3	0.997	30	
Fluoranthene	605.7	4.1	648.7	0	93.4	40-140	589.9	2.64	30	
Fluorene	540.4	4.1	648.7	0	83.3	40-140	530	1.94	30	
Indeno(1,2,3-cd)pyrene	512.7	4.1	648.7	0	79	40-140	503.5	1.82	30	
Naphthalene	584	4.1	648.7	0	90	40-140	564.7	3.37	30	
Pyrene	505.7	4.1	648.7	0	78	40-140	496.3	1.88	30	
Surr: 2-Fluorobiphenyl	*593.2*	0	*648.7*	0	*91.4*	*20-140*	579.8	*2.29*	*30*	
Surr: 4-Terphenyl-d14	*535.8*	0	*648.7*	0	*82.6*	*22-172*	524.1	*2.22*	*30*	
Surr: Nitrobenzene-d5	*550.4*	0	*648.7*	0	*84.8*	*28-140*	526	*4.53*	*30*	

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

Client: Entrada Consulting Group
Work Order: 21120317
Project: 38 Header Spill

QC BATCH REPORT

Batch ID: **188648** Instrument ID **SVMS6** Method: **SW8270E**

The following samples were analyzed in this batch:

21120317-02A	21120317-03A	21120317-04A
21120317-05A	21120317-06A	21120317-07A
21120317-08A	21120317-09A	

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

Client: Entrada Consulting Group
Work Order: 21120317
Project: 38 Header Spill

QC BATCH REPORT

Batch ID: **188380** Instrument ID **VMS11** Method: **SW8260C**

MBLK	Sample ID: **MBLK-188380-188380**				Units: **µg/Kg-dry**		Analysis Date: **12/7/2021 12:46 AM**			
Client ID:	Run ID: **VMS11_211206A**				SeqNo: **8004591**		Prep Date: **12/6/2021**		DF: **1**	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trimethylbenzene	U	30								
1,3,5-Trimethylbenzene	U	100								
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	*1016*	0	*1000*	0	*102*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*959.5*	0	*1000*	0	*96*	*70-130*	0			
Surr: Dibromofluoromethane	*1002*	0	*1000*	0	*100*	*70-130*	0			
Surr: Toluene-d8	*1046*	0	*1000*	0	*105*	*70-130*	0			

LCS	Sample ID: **LCS-188380-188380**				Units: **µg/Kg-dry**		Analysis Date: **12/6/2021 11:41 PM**			
Client ID:	Run ID: **VMS11_211206A**				SeqNo: **8004589**		Prep Date: **12/6/2021**		DF: **1**	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trimethylbenzene	898	30	1000	0	89.8	65-135	0			
1,3,5-Trimethylbenzene	918	100	1000	0	91.8	65-135	0			
Benzene	951	30	1000	0	95.1	75-125	0			
Ethylbenzene	920.5	30	1000	0	92	75-125	0			
m,p-Xylene	1858	60	2000	0	92.9	80-125	0			
o-Xylene	938.5	30	1000	0	93.8	75-125	0			
Toluene	934.5	30	1000	0	93.4	70-125	0			
Xylenes, Total	2796	90	3000	0	93.2	75-125	0			
Surr: 1,2-Dichloroethane-d4	*1004*	0	*1000*	0	*100*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*987.5*	0	*1000*	0	*98.8*	*70-130*	0			
Surr: Dibromofluoromethane	*986.5*	0	*1000*	0	*98.6*	*70-130*	0			
Surr: Toluene-d8	*1064*	0	*1000*	0	*106*	*70-130*	0			

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

Client: Entrada Consulting Group
Work Order: 21120317
Project: 38 Header Spill

QC BATCH REPORT

Batch ID: **188380** Instrument ID **VMS11** Method: **SW8260C**

MS Sample ID: **21120357-01A MS** Units: **µg/Kg-dry** Analysis Date: **12/7/2021 07:20 AM**
Client ID: Run ID: **VMS11_211206A** SeqNo: **8004609** Prep Date: **12/6/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trimethylbenzene	2397	60	1999	363.9	102	65-135	0			H
1,3,5-Trimethylbenzene	2299	200	1999	205.9	105	65-135	0			H
Benzene	2884	60	1999	736.7	107	75-125	0			H
Ethylbenzene	2086	60	1999	44.98	102	75-125	0			H
m,p-Xylene	5050	120	3999	814.7	106	80-125	0			H
o-Xylene	2351	60	1999	278.9	104	75-125	0			H
Toluene	2982	60	1999	841.7	107	70-125	0			H
Xylenes, Total	7401	180	5998	1090	105	75-125	0			H
Surr: 1,2-Dichloroethane-d4	*2039*	0	*1999*	0	*102*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*1958*	0	*1999*	0	*98*	*70-130*	0			
Surr: Dibromofluoromethane	*2001*	0	*1999*	0	*100*	*70-130*	0			
Surr: Toluene-d8	*2162*	0	*1999*	0	*108*	*70-130*	0			

MSD Sample ID: **21120357-01A MSD** Units: **µg/Kg-dry** Analysis Date: **12/7/2021 07:42 AM**
Client ID: Run ID: **VMS11_211206A** SeqNo: **8004610** Prep Date: **12/6/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trimethylbenzene	2415	60	1999	363.9	103	65-135	2397	0.748	30	H
1,3,5-Trimethylbenzene	2279	200	1999	205.9	104	65-135	2299	0.874	30	H
Benzene	2835	60	1999	736.7	105	75-125	2884	1.71	30	H
Ethylbenzene	2113	60	1999	44.98	103	75-125	2086	1.29	30	H
m,p-Xylene	5025	120	3999	814.7	105	80-125	5050	0.496	30	H
o-Xylene	2382	60	1999	278.9	105	75-125	2351	1.31	30	H
Toluene	2955	60	1999	841.7	106	70-125	2982	0.909	30	H
Xylenes, Total	7407	180	5998	1090	105	75-125	7401	0.081	30	H
Surr: 1,2-Dichloroethane-d4	*1960*	0	*1999*	0	*98.1*	*70-130*	2039	*3.95*	*30*	
Surr: 4-Bromofluorobenzene	*1968*	0	*1999*	0	*98.5*	*70-130*	1958	*0.509*	*30*	
Surr: Dibromofluoromethane	*1938*	0	*1999*	0	*97*	*70-130*	2001	*3.2*	*30*	
Surr: Toluene-d8	*2136*	0	*1999*	0	*107*	*70-130*	2162	*1.21*	*30*	

The following samples were analyzed in this batch: 21120317-01A

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

Client: Entrada Consulting Group
Work Order: 21120317
Project: 38 Header Spill

QC BATCH REPORT

Batch ID: **188391** Instrument ID **VMS8** Method: **SW8260C**

MBLK Sample ID: **MBLK-188391-188391** Units: **µg/Kg-dry** Analysis Date: **12/7/2021 10:12 PM**
Client ID: Run ID: **VMS8_211207B** SeqNo: **8008232** Prep Date: **12/6/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trimethylbenzene	U	30								
1,3,5-Trimethylbenzene	U	100								
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	*1088*	0	*1000*	0	*109*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*1042*	0	*1000*	0	*104*	*70-130*	0			
Surr: Dibromofluoromethane	*1024*	0	*1000*	0	*102*	*70-130*	0			
Surr: Toluene-d8	*993*	0	*1000*	0	*99.3*	*70-130*	0			

LCS Sample ID: **LCS-188391-188391** Units: **µg/Kg-dry** Analysis Date: **12/7/2021 09:17 PM**
Client ID: Run ID: **VMS8_211207B** SeqNo: **8008230** Prep Date: **12/6/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trimethylbenzene	957	30	1000	0	95.7	65-135	0			
1,3,5-Trimethylbenzene	983	100	1000	0	98.3	65-135	0			
Benzene	1037	30	1000	0	104	75-125	0			
Ethylbenzene	990	30	1000	0	99	75-125	0			
m,p-Xylene	2010	60	2000	0	100	80-125	0			
o-Xylene	994	30	1000	0	99.4	75-125	0			
Toluene	1014	30	1000	0	101	70-125	0			
Xylenes, Total	3004	90	3000	0	100	75-125	0			
Surr: 1,2-Dichloroethane-d4	*1098*	0	*1000*	0	*110*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*1003*	0	*1000*	0	*100*	*70-130*	0			
Surr: Dibromofluoromethane	*1070*	0	*1000*	0	*107*	*70-130*	0			
Surr: Toluene-d8	*995*	0	*1000*	0	*99.5*	*70-130*	0			

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

Client: Entrada Consulting Group
Work Order: 21120317
Project: 38 Header Spill

QC BATCH REPORT

Batch ID: **188391** Instrument ID **VMS8** Method: **SW8260C**

MS Sample ID: **21120317-02A MS** Units: **µg/Kg-dry** Analysis Date: **12/8/2021 04:33 AM**
Client ID: **38HDR-SS1** Run ID: **VMS8_211207B** SeqNo: **8008259** Prep Date: **12/6/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trimethylbenzene	3472	35	1176	2069	119	65-135	0			
1,3,5-Trimethylbenzene	2029	120	1176	726	111	65-135	0			
Benzene	1587	35	1176	416.2	99.6	75-125	0			
Ethylbenzene	1715	35	1176	480.8	105	75-125	0			
m,p-Xylene	4584	71	2351	2055	108	80-125	0			
o-Xylene	2230	35	1176	970.5	107	75-125	0			
Toluene	2418	35	1176	1196	104	70-125	0			
Xylenes, Total	6814	110	3527	3026	107	75-125	0			
Surr: 1,2-Dichloroethane-d4	*1263*	0	*1176*	0	*107*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*1286*	0	*1176*	0	*109*	*70-130*	0			
Surr: Dibromofluoromethane	*1200*	0	*1176*	0	*102*	*70-130*	0			
Surr: Toluene-d8	*1261*	0	*1176*	0	*107*	*70-130*	0			

MSD Sample ID: **21120317-02A MSD** Units: **µg/Kg-dry** Analysis Date: **12/8/2021 04:51 AM**
Client ID: **38HDR-SS1** Run ID: **VMS8_211207B** SeqNo: **8008260** Prep Date: **12/6/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trimethylbenzene	3419	35	1176	2069	115	65-135	3472	1.52	30	
1,3,5-Trimethylbenzene	2064	120	1176	726	114	65-135	2029	1.72	30	
Benzene	1669	35	1176	416.2	107	75-125	1587	5.05	30	
Ethylbenzene	1745	35	1176	480.8	108	75-125	1715	1.73	30	
m,p-Xylene	4715	71	2351	2055	113	80-125	4584	2.82	30	
o-Xylene	2264	35	1176	970.5	110	75-125	2230	1.54	30	
Toluene	2501	35	1176	1196	111	70-125	2418	3.37	30	
Xylenes, Total	6979	110	3527	3026	112	75-125	6814	2.4	30	
Surr: 1,2-Dichloroethane-d4	*1261*	0	*1176*	0	*107*	*70-130*	1263	*0.186*	*30*	
Surr: 4-Bromofluorobenzene	*1284*	0	*1176*	0	*109*	*70-130*	1286	*0.137*	*30*	
Surr: Dibromofluoromethane	*1203*	0	*1176*	0	*102*	*70-130*	1200	*0.293*	*30*	
Surr: Toluene-d8	*1278*	0	*1176*	0	*109*	*70-130*	1261	*1.34*	*30*	

The following samples were analyzed in this batch:

21120317-02A	21120317-03A	21120317-04A
21120317-05A	21120317-06A	21120317-07A
21120317-08A	21120317-09A	

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

Client: Entrada Consulting Group
Work Order: 21120317
Project: 38 Header Spill

QC BATCH REPORT

Batch ID: **R334082** Instrument ID **VMS8** Method: **SW8260C**

MBLK Sample ID: **8V-BLKS3-211209-R334082** Units: **µg/Kg** Analysis Date: **12/9/2021 05:46 PM**
Client ID: Run ID: **VMS8_211209A** SeqNo: **8015862** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trimethylbenzene	U	5.0								
1,3,5-Trimethylbenzene	U	5.0								
Benzene	U	5.0								
Ethylbenzene	U	5.0								
m,p-Xylene	U	2.5								
o-Xylene	U	2.5								
Toluene	U	5.0								
Xylenes, Total	U	5.0								
Surr: 1,2-Dichloroethane-d4	*19.76*	0	*20*	0	*98.8*	*83-132*	0			
Surr: 4-Bromofluorobenzene	*19.47*	0	*20*	0	*97.4*	*83-111*	0			
Surr: Dibromofluoromethane	*19.4*	0	*20*	0	*97*	*77-125*	0			
Surr: Toluene-d8	*20.48*	0	*20*	0	*102*	*86-108*	0			

LCS Sample ID: **8V-LCSS1-211209-R334082** Units: **µg/Kg** Analysis Date: **12/9/2021 04:42 PM**
Client ID: Run ID: **VMS8_211209A** SeqNo: **8015860** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trimethylbenzene	20.39	5.0	20	0	102	71-133	0			
1,3,5-Trimethylbenzene	22.09	5.0	20	0	110	71-139	0			
Benzene	20.66	5.0	20	0	103	77-133	0			
Ethylbenzene	21.42	5.0	20	0	107	75-133	0			
m,p-Xylene	43.2	2.5	40	0	108	75-134	0			
o-Xylene	21.41	2.5	20	0	107	76-130	0			
Toluene	20.3	5.0	20	0	102	76-130	0			
Xylenes, Total	64.61	5.0	60	0	108	75-132	0			
Surr: 1,2-Dichloroethane-d4	*19.97*	0	*20*	0	*99.8*	*83-132*	0			
Surr: 4-Bromofluorobenzene	*19.98*	0	*20*	0	*99.9*	*83-111*	0			
Surr: Dibromofluoromethane	*20.43*	0	*20*	0	*102*	*77-125*	0			
Surr: Toluene-d8	*20.32*	0	*20*	0	*102*	*86-108*	0			

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

Client: Entrada Consulting Group
Work Order: 21120317
Project: 38 Header Spill

QC BATCH REPORT

Batch ID: **R334082** Instrument ID **VMS8** Method: **SW8260C**

MS Sample ID: **21120341-02A MS** Units: **µg/Kg** Analysis Date: **12/10/2021 01:03 AM**
Client ID: Run ID: **VMS8_211209A** SeqNo: **8015878** Prep Date: DF: **0.994**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trimethylbenzene	14.44	5.0	19.88	0.3604	70.8	71-133	0			S
1,3,5-Trimethylbenzene	15.88	5.0	19.88	0	79.9	71-139	0			
Benzene	16.97	5.0	19.88	0	85.4	77-133	0			
Ethylbenzene	16.33	5.0	19.88	0	82.1	75-133	0			
m,p-Xylene	32.76	2.5	39.76	0	82.4	75-134	0			
o-Xylene	17.02	2.5	19.88	0	85.6	76-130	0			
Toluene	16.21	5.0	19.88	0	81.5	76-130	0			
Xylenes, Total	49.78	5.0	59.64	0	83.5	75-132	0			
Surr: 1,2-Dichloroethane-d4	*21.09*	0	*19.88*	0	*106*	*83-132*	0			
Surr: 4-Bromofluorobenzene	*20.53*	0	*19.88*	0	*103*	*83-111*	0			
Surr: Dibromofluoromethane	*20.08*	0	*19.88*	0	*101*	*77-125*	0			
Surr: Toluene-d8	*20.15*	0	*19.88*	0	*101*	*86-108*	0			

DUP Sample ID: **21120341-03A DUP** Units: **µg/Kg** Analysis Date: **12/9/2021 09:43 PM**
Client ID: Run ID: **VMS8_211209A** SeqNo: **8015877** Prep Date: DF: **0.919**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trimethylbenzene	U	4.6	0	0	0		0	0	30	
1,3,5-Trimethylbenzene	U	4.6	0	0	0		0	0	30	
Benzene	U	4.6	0	0	0		0	0	30	
Ethylbenzene	U	4.6	0	0	0		0	0	30	
m,p-Xylene	U	2.3	0	0	0		0	0	30	
o-Xylene	U	2.3	0	0	0		0	0	30	
Toluene	U	4.6	0	0	0		0	0	30	
Xylenes, Total	U	4.6	0	0	0		0	0	30	
Surr: 1,2-Dichloroethane-d4	*21.01*	0	*18.38*	0	*114*	*83-132*	20.38	*3.05*	*30*	
Surr: 4-Bromofluorobenzene	*18.21*	0	*18.38*	0	*99.1*	*83-111*	18.79	*3.17*	*30*	
Surr: Dibromofluoromethane	*19.18*	0	*18.38*	0	*104*	*77-125*	18.4	*4.15*	*30*	
Surr: Toluene-d8	*17.87*	0	*18.38*	0	*97.3*	*86-108*	17.25	*3.56*	*30*	

The following samples were analyzed in this batch: 21120317-06A

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

Client: Entrada Consulting Group
Work Order: 21120317
Project: 38 Header Spill

QC BATCH REPORT

Batch ID: **188616** Instrument ID **SPEC-04** Method: **SW7196A**

MBLK Sample ID: **MBLK-188616-188616** Units: **mg/Kg** Analysis Date: **12/9/2021 03:25 PM**
Client ID: Run ID: **SPEC-04_211209B** SeqNo: **8014596** Prep Date: **12/8/2021** 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-188616-188616** Units: **mg/Kg** Analysis Date: **12/9/2021 03:25 PM**
Client ID: Run ID: **SPEC-04_211209B** SeqNo: **8014597** Prep Date: **12/8/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	4.87	1.0	5	0	97.4	80-120	0			

MS Sample ID: **21110988-01A MS** Units: **mg/Kg** Analysis Date: **12/9/2021 03:25 PM**
Client ID: Run ID: **SPEC-04_211209B** SeqNo: **8014599** Prep Date: **12/8/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	2.52	1.0	5	0.04	49.6	75-125	0			S

MS Sample ID: **21110988-01A MSI** Units: **mg/Kg** Analysis Date: **12/9/2021 03:25 PM**
Client ID: Run ID: **SPEC-04_211209B** SeqNo: **8014601** Prep Date: **12/8/2021** DF: **100**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	2617	100	2751	0.04	95.1	75-125	0			

MSD Sample ID: **21110988-01A MSD** Units: **mg/Kg** Analysis Date: **12/9/2021 03:25 PM**
Client ID: Run ID: **SPEC-04_211209B** SeqNo: **8014600** Prep Date: **12/8/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	1.78	1.0	5	0.04	34.8	75-125	2.52	34.4	20	SR

The following samples were analyzed in this batch: 21120317-01A 21120317-02A

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

Client: Entrada Consulting Group
Work Order: 21120317
Project: 38 Header Spill

QC BATCH REPORT

Batch ID: **188730** Instrument ID **WETCHEM** Method: **USDA Method 20**

DUP Sample ID: **21120313-02A DUP** Units: **C** Analysis Date: **12/13/2021 03:26 PM**
Client ID: Run ID: **WETCHEM_211213J** SeqNo: **8024069** Prep Date: **12/12/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH @ Saturation	7.44	0.10	0	0	0	0-0	7.4	0.539	20	

DUP Sample ID: **21120313-02A DUP** Units: **mmhos/cm @25°** Analysis Date: **12/13/2021 04:41 PM**
Client ID: Run ID: **WETCHEM_211213K** SeqNo: **8024089** Prep Date: **12/12/2021** DF: **20**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	1.246	0.10	0	0	0		1.274	2.22	50	

The following samples were analyzed in this batch:

21120317-02A	21120317-03A	21120317-04A
21120317-05A	21120317-06A	21120317-07A
21120317-08A		

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

Client: Entrada Consulting Group
Work Order: 21120317
Project: 38 Header Spill

QC BATCH REPORT

Batch ID: **189016** Instrument ID **SPEC-03** Method: **SW7196A**

MBLK Sample ID: **MBLK-189016-189016** Units: **mg/Kg** Analysis Date: **12/15/2021 06:24 PM**
Client ID: Run ID: **SPEC-03_211215B** SeqNo: **8033121** Prep Date: **12/14/2021** 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-189016-189016** Units: **mg/Kg** Analysis Date: **12/15/2021 06:24 PM**
Client ID: Run ID: **SPEC-03_211215B** SeqNo: **8033122** Prep Date: **12/14/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	4.58	1.0	5	0	91.6	80-120	0			

MS Sample ID: **21120314-01A MS** Units: **mg/Kg** Analysis Date: **12/15/2021 06:24 PM**
Client ID: Run ID: **SPEC-03_211215B** SeqNo: **8033125** Prep Date: **12/14/2021** 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	-0.06	78.2	75-125	0			

MS Sample ID: **21120314-01A MSI** Units: **mg/Kg** Analysis Date: **12/15/2021 06:24 PM**
Client ID: Run ID: **SPEC-03_211215B** SeqNo: **8033127** Prep Date: **12/14/2021** DF: **100**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	1751	100	1899	-0.06	92.2	75-125	0			

MSD Sample ID: **21120314-01A MSD** Units: **mg/Kg** Analysis Date: **12/15/2021 06:24 PM**
Client ID: Run ID: **SPEC-03_211215B** SeqNo: **8033126** Prep Date: **12/14/2021** 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	-0.06	78.2	75-125	3.85	0	20	

The following samples were analyzed in this batch:

21120317-03A	21120317-04A	21120317-05A
21120317-06A	21120317-07A	21120317-08A
21120317-09A		

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

Client: Entrada Consulting Group
Work Order: 21120317
Project: 38 Header Spill

QC BATCH REPORT

Batch ID: **R333796** Instrument ID **MOIST** Method: **SW3550C**

MBLK Sample ID: **WBLKS-R333796** Units: **% of sample** Analysis Date: **12/6/2021 11:25 AM**
Client ID: Run ID: **MOIST_211206A** SeqNo: **8004186** 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-R333796** Units: **% of sample** Analysis Date: **12/6/2021 11:25 AM**
Client ID: Run ID: **MOIST_211206A** SeqNo: **8004185** 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: **21120297-01B DUP** Units: **% of sample** Analysis Date: **12/6/2021 11:25 AM**
Client ID: Run ID: **MOIST_211206A** SeqNo: **8004166** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	11.03	0.10	0	0	0	0-0	10.89	1.28	10	

DUP Sample ID: **21120309-03B DUP** Units: **% of sample** Analysis Date: **12/6/2021 11:25 AM**
Client ID: Run ID: **MOIST_211206A** SeqNo: **8004174** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	4.16	0.10	0	0	0	0-0	4.28	2.84	10	

The following samples were analyzed in this batch: 21120317-01A

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

Client: Entrada Consulting Group
Work Order: 21120317
Project: 38 Header Spill

QC BATCH REPORT

Batch ID: **R334109** Instrument ID **MOIST** Method: **SW3550C**

MBLK Sample ID: **WBLKS-R334109** Units: **% of sample** Analysis Date: **12/9/2021 12:00 PM**
Client ID: Run ID: **MOIST_211209B** SeqNo: **8016002** 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-R334109** Units: **% of sample** Analysis Date: **12/9/2021 12:00 PM**
Client ID: Run ID: **MOIST_211209B** SeqNo: **8016001** 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: **21120314-01A DUP** Units: **% of sample** Analysis Date: **12/9/2021 12:00 PM**
Client ID: Run ID: **MOIST_211209B** SeqNo: **8015980** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	4.2	0.10	0	0	0	0-0	4.33	3.05	10	

DUP Sample ID: **21120317-02A DUP** Units: **% of sample** Analysis Date: **12/9/2021 12:00 PM**
Client ID: **38HDR-SS1** Run ID: **MOIST_211209B** SeqNo: **8015984** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	16.42	0.10	0	0	0	0-0	16.77	2.11	10	

The following samples were analyzed in this batch: 21120317-02A

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

Client: Entrada Consulting Group
Work Order: 21120317
Project: 38 Header Spill

QC BATCH REPORT

Batch ID: **R334112** Instrument ID **MOIST** Method: **SW3550C**

MBLK	Sample ID: **WBLKS-R334112**					Units: **% of sample**		Analysis Date: **12/9/2021 01:57 PM**			
Client ID:	Run ID: **MOIST_211209C**					SeqNo: **8016182**		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-R334112**					Units: **% of sample**		Analysis Date: **12/9/2021 01:57 PM**			
Client ID:	Run ID: **MOIST_211209C**					SeqNo: **8016181**		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: **21120317-03A DUP**					Units: **% of sample**		Analysis Date: **12/9/2021 01:57 PM**			
Client ID: **38HDR-SS2**	Run ID: **MOIST_211209C**					SeqNo: **8016160**		Prep Date:		DF: **1**	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	15.97	0.10	0	0	0	0-0	16.17	1.24	10	

DUP	Sample ID: **21120556-19A DUP**					Units: **% of sample**		Analysis Date: **12/9/2021 01:57 PM**			
Client ID:	Run ID: **MOIST_211209C**					SeqNo: **8016180**		Prep Date:		DF: **1**	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	19.74	0.10	0	0	0	0-0	19.88	0.707	10	

The following samples were analyzed in this batch:

21120317-03A	21120317-04A	21120317-05A
21120317-06A	21120317-07A	21120317-08A
21120317-09A		

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

Chain of Custody Form

Page ____ of ____

☑ ALS Environmental
3352 128th Avenue
Holland, Michigan 49424
(Tel) 616.399.6070
(Fax) 616.399.6185

ALS Project Manager:		ALS Work Order #:	21120317

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	38 Header Spill	A	BTEX, TMBs
Work Order		Project Number		B	Table 915 PAHs
Company Name	Entrada Consulting Group	Bill To Company	Entrada Consulting Group	C	Table 915 Metals
Send Report To	Tim Dobransky	Invoice Attn.		D	Hot Water Soluble Boron
Address	330 Grand Ave., Ste C	Address	330 Grand Ave., Ste, C	E	GRO
				F	ERO
City/State/Zip	Grand Junction, CO 81501	City/State/Zip	Grand Junction, CO 81501	G	SAR/EC/pH
Phone	970-270-2986	Phone	970-270-2986	H	
Fax		Fax		I	
e-Mail Address	tdobransky@entradainc.com			J	

No.	Sample Description	Date	Time	Matrix	Pres. Key Numbers	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
	38HDR-BULK LEAK (4')	11/23/2021	1200	Soil	8	1	X	X	X	X	X	X	X				
	38HDR-SS1	11/30/2021	1155	Soil	8	3	X	X	X	X	X	X	X				
	38HDR-SS2	11/30/2021	1215	Soil	8	3	X	X	X	X	X	X	X				
	38HDR-SS3	11/30/2021	1225	Soil	8	3	X	X	X	X	X	X	X				
	38HDR-SS4	11/30/2021	1235	Soil	8	3	X	X	X	X	X	X	X				
	38HDR-SS5	11/30/2021	1300	Soil	8	3	X	X	X	X	X	X	X				
	38HDR-SS6	11/30/2021	1310	Soil	8	3	X	X	X	X	X	X	X				
	38HDR-SS7	11/30/2021	1325	Soil	8	3	X	X	X	X	X	X	X				
	38HDR-SS8	11/30/2021	1335	Soil	8	3	X	X	X	X	X	X	X				

Sampler(s): Please Print & Sign
TPD

Shipment Method:

Turnaround Time: (Business Days)
☑ 10 BD ☐ 5 BD ☐ 3 BD ☐ 2 BD ☐ 1 BD ☐ Other ____

Results Due Date:

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
	12/1/21	1630	FedEx		
Relinquished by:	**Date:**	**Time:**	**Received by (Laboratory):**	**Date:**	**Time:**
FedEx	12/2/21	1000			
Logged by (Laboratory):	**Date:**	**Time:**	**Checked by (Laboratory):**		
KR	12/4/21	0920			

Notes:
Please run for COGCC Protection of GW low level standards

ALS Cooler ID	Cooler Temp
IR3	4.2°

QC Package: (Check Box Below)
☐ Level II: Standard QC ☐ Level III: Raw Data
☐ TRRP LRC ☐ TRRP Level IV
☑ Level IV: SW846 Methods/CLP like
☐ Other: ____

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C

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

ALS Group, USA

Sample Receipt Checklist

Client Name: **ENTRADA** Date/Time Received: **02-Dec-21 10:00**

Work Order: **21120317** Received by: **KRW**

Checklist completed by Keith Wierenga (eSignature) 04-Dec-21 (Date) Reviewed by: Chad Whelton (eSignature) 06-Dec-21 (Date)

Matrices: Soil

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Sample(s) received on ice?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	4.2/5.2 C	IR3	
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	12/4/2021 9:14:00 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:

21-Dec-2021

Tim Dobransky
Entrada Consulting Group
330 Grand Ave.
Suite C
Grand Junction, CO 81501

Re: **38 Header Spill** Work Order: **21121004**

Dear Tim,

ALS Environmental received 2 samples on 09-Dec-2021 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,

Electronically approved by: Chad Whelton

Chad Whelton
Project Manager

Report of Laboratory Analysis

Certificate No: MN 026-999-449

ALS Group, USA

Date: 21-Dec-21

Client: Entrada Consulting Group
Project: 38 Header Spill
Work Order: **21121004**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
21121004-01	38 HDR-SS9	Soil		12/7/2021	12/9/2021 10:00	☐
21121004-02	38 HDR-SS10	Soil		12/7/2021	12/9/2021 10:00	☐

ALS Group, USA

Date: 21-Dec-21

Qualifier	Description
*	Value exceeds Regulatory Limit
**	Estimated Value
a	Analyte is non-accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
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.

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

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

ALS Group, USA

Date: *21-Dec-21*

Client: Entrada Consulting Group
Project: 38 Header Spill
Sample ID: 38 HDR-SS9
Collection Date: 12/7/2021

Work Order: 21121004
Lab ID: 21121004-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID		Method: **SW8015D**			Prep: SW3550 / 12/15/21		Analyst: **SJB**
ERO (C10-C36)	**330**		**19**	**49**	**mg/Kg-dry**	1	12/15/2021 22:31
Surr: 4-Terphenyl-d14	*78.7*			*25-110*	*%REC*	1	12/15/2021 22:31
GASOLINE RANGE ORGANICS BY GC-FID		Method: **SW8015D**			Prep: SW5035A / 12/14/21		Analyst: **SJB**
GRO (C6-C10)	**6.9**	J	**3.4**	**8.1**	**mg/Kg-dry**	1	12/15/2021 19:18
Surr: Toluene-d8	*85.1*			*71-123*	*%REC*	1	12/15/2021 19:18
METALS BY ICP-MS		Method: **SW6020B**			Prep: SW3050B / 12/17/21		Analyst: **STP**
Arsenic	**7.6**		**0.050**	**0.42**	**mg/Kg-dry**	1	12/17/2021 23:05
Barium	**420**		**3.8**	**4.2**	**mg/Kg-dry**	10	12/20/2021 17:04
Cadmium	**0.094**	J	**0.025**	**0.17**	**mg/Kg-dry**	1	12/17/2021 23:05
Copper	**12**		**0.42**	**0.42**	**mg/Kg-dry**	1	12/17/2021 23:05
Lead	**23**		**0.20**	**0.42**	**mg/Kg-dry**	1	12/17/2021 23:05
Nickel	**21**		**2.2**	**4.2**	**mg/Kg-dry**	10	12/20/2021 17:04
Selenium	**2.2**		**0.38**	**0.42**	**mg/Kg-dry**	1	12/17/2021 23:05
Silver	**0.088**	J	**0.055**	**0.42**	**mg/Kg-dry**	1	12/17/2021 23:05
Zinc	**70**		**0.82**	**0.83**	**mg/Kg-dry**	1	12/17/2021 23:05
SOLUBLE CATIONS FOR SAR		Method: **SW6020B**			Prep: USDA Method 20B / 12/20/21		Analyst: **STP**
Calcium	**600**		**2.5**	**5.0**	**mg/L**	10	12/20/2021 14:56
Magnesium	**730**		**0.50**	**2.0**	**mg/L**	10	12/20/2021 14:56
Sodium	**7,200**		**18**	**20**	**mg/L**	100	12/20/2021 15:36
HOT WATER SOLUBLE BORON BY ICP-MS		Method: **SW6020B**			Prep: EXTRACT / 12/17/21		Analyst: **STP**
Boron (Hot Water Soluble)	**2.7**		**0.020**	**0.49**	**mg/Kg-dry**	10	12/20/2021 16:34
SODIUM ADSORPTION RATIO		Method: **USDA H60 METHOD 20B**			Prep: USDA Method 20B / 12/20/21		Analyst: **STP**
Sodium Adsorption Ratio	**47**		**0.010**	**0.010**	**none**	1	12/20/2021
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS)		Method: **SW8270E**			Prep: SW3546 / 12/17/21		Analyst: **EEW**
1-Methylnaphthalene	**0.083**		**0.0090**	**0.015**	**mg/Kg-dry**	1	12/19/2021 18:28
2-Methylnaphthalene	**0.073**		**0.011**	**0.015**	**mg/Kg-dry**	1	12/19/2021 18:28
Acenaphthene	U		0.013	0.015	mg/Kg-dry	1	12/19/2021 18:28
Anthracene	U		0.014	0.015	mg/Kg-dry	1	12/19/2021 18:28
Benzo(a)anthracene	U		0.015	0.015	mg/Kg-dry	1	12/19/2021 18:28
Benzo(a)pyrene	U		0.012	0.015	mg/Kg-dry	1	12/19/2021 18:28
Benzo(b)fluoranthene	U		0.013	0.015	mg/Kg-dry	1	12/19/2021 18:28
Benzo(k)fluoranthene	U		0.012	0.015	mg/Kg-dry	1	12/19/2021 18:28
Chrysene	U		0.014	0.015	mg/Kg-dry	1	12/19/2021 18:28

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

Client: Entrada Consulting Group
Project: 38 Header Spill
Sample ID: 38 HDR-SS9
Collection Date: 12/7/2021

Work Order: 21121004
Lab ID: 21121004-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Dibenzo(a,h)anthracene	U		0.012	0.015	mg/Kg-dry	1	12/19/2021 18:28
Fluoranthene	U		0.012	0.015	mg/Kg-dry	1	12/19/2021 18:28
Fluorene	U		0.012	0.015	mg/Kg-dry	1	12/19/2021 18:28
Indeno(1,2,3-cd)pyrene	U		0.013	0.015	mg/Kg-dry	1	12/19/2021 18:28
Naphthalene	U		0.015	0.015	mg/Kg-dry	1	12/19/2021 18:28
Pyrene	U		0.015	0.015	mg/Kg-dry	1	12/19/2021 18:28
Surr: 2-Fluorobiphenyl	*75.3*			*20-140*	*%REC*	1	12/19/2021 18:28
Surr: 4-Terphenyl-d14	*43.4*			*22-172*	*%REC*	1	12/19/2021 18:28
Surr: Nitrobenzene-d5	*80.2*			*28-140*	*%REC*	1	12/19/2021 18:28
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260C**		Prep: SW5035A / 12/14/21		Analyst: **MF**
1,2,4-Trimethylbenzene	**0.20**		**0.036**	**0.049**	**mg/Kg-dry**	1	12/16/2021 09:02
1,3,5-Trimethylbenzene	**0.078**	J	**0.057**	**0.16**	**mg/Kg-dry**	1	12/16/2021 09:02
Benzene	**0.025**	J	**0.024**	**0.049**	**mg/Kg-dry**	1	12/16/2021 09:02
Ethylbenzene	**0.061**		**0.010**	**0.049**	**mg/Kg-dry**	1	12/16/2021 09:02
m,p-Xylene	**0.25**		**0.065**	**0.097**	**mg/Kg-dry**	1	12/16/2021 09:02
o-Xylene	**0.12**		**0.019**	**0.049**	**mg/Kg-dry**	1	12/16/2021 09:02
Toluene	**0.13**		**0.013**	**0.049**	**mg/Kg-dry**	1	12/16/2021 09:02
Xylenes, Total	**0.37**		**0.065**	**0.15**	**mg/Kg-dry**	1	12/16/2021 09:02
Surr: 1,2-Dichloroethane-d4	*104*			*70-130*	*%REC*	1	12/16/2021 09:02
Surr: 4-Bromofluorobenzene	*97.2*			*70-130*	*%REC*	1	12/16/2021 09:02
Surr: Dibromofluoromethane	*93.5*			*70-130*	*%REC*	1	12/16/2021 09:02
Surr: Toluene-d8	*93.2*			*70-130*	*%REC*	1	12/16/2021 09:02
ELECTRICAL CONDUCTIVITY (SAR)		Method:	**USDA H60 METHOD 20B**		Prep: USDA Method 20B / 12/20/21		Analyst: **JMJ**
Electrical Conductivity @ Saturation	**40**		**0.011**	**0.10**	**mmhos/cm @25°C**	20	12/20/2021 10:47
CHROMIUM, HEXAVALENT		Method:	**SW7196A**		Prep: SW3060A / 12/15/21		Analyst: **RZM**
Chromium, Hexavalent	U		1.0	1.2	mg/Kg-dry	1	12/15/2021 18:24
MOISTURE		Method:	**SW3550C**				Analyst: **ALG**
Moisture	**19**		**0.10**	**0.10**	**% of sample**	1	12/15/2021 15:31
PH MEASURED IN SOIL PASTE		Method:	**USDA METHOD 20B**		Prep: USDA Method 20B / 12/20/21		Analyst: **JB**
pH @ Saturation	**9.25**		**0.12**	**0.12**	**s.u.-dry**	1	12/20/2021 17:30

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

ALS Group, USA

Date: *21-Dec-21*

Client: Entrada Consulting Group
Project: 38 Header Spill
Sample ID: 38 HDR-SS10
Collection Date: 12/7/2021

Work Order: 21121004
Lab ID: 21121004-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID		Method: **SW8015D**			Prep: SW3550 / 12/15/21		Analyst: **SJB**
ERO (C10-C36)	**310**		**66**	**170**	**mg/Kg-dry**	1	12/15/2021 23:09
Surr: 4-Terphenyl-d14	*82.0*			*25-110*	*%REC*	1	12/15/2021 23:09
GASOLINE RANGE ORGANICS BY GC-FID		Method: **SW8015D**			Prep: SW5035A / 12/14/21		Analyst: **SJB**
GRO (C6-C10)	**21**		**4.2**	**9.9**	**mg/Kg-dry**	1	12/15/2021 19:40
Surr: Toluene-d8	*80.3*			*71-123*	*%REC*	1	12/15/2021 19:40
METALS BY ICP-MS		Method: **SW6020B**			Prep: SW3050B / 12/17/21		Analyst: **STP**
Arsenic	**7.6**		**0.058**	**0.49**	**mg/Kg-dry**	1	12/17/2021 23:07
Barium	**350**		**4.5**	**4.9**	**mg/Kg-dry**	10	12/20/2021 17:05
Cadmium	**0.11**	J	**0.029**	**0.19**	**mg/Kg-dry**	1	12/17/2021 23:07
Copper	**14**		**0.49**	**0.49**	**mg/Kg-dry**	1	12/17/2021 23:07
Lead	**21**		**0.23**	**0.49**	**mg/Kg-dry**	1	12/17/2021 23:07
Nickel	**24**		**2.5**	**4.9**	**mg/Kg-dry**	10	12/20/2021 17:05
Selenium	**1.7**		**0.45**	**0.49**	**mg/Kg-dry**	1	12/17/2021 23:07
Silver	**0.11**	J	**0.064**	**0.49**	**mg/Kg-dry**	1	12/17/2021 23:07
Zinc	**74**		**0.95**	**0.97**	**mg/Kg-dry**	1	12/17/2021 23:07
SOLUBLE CATIONS FOR SAR		Method: **SW6020B**			Prep: USDA Method 20B / 12/20/21		Analyst: **STP**
Calcium	**610**		**2.5**	**5.0**	**mg/L**	10	12/20/2021 15:00
Magnesium	**520**		**0.50**	**2.0**	**mg/L**	10	12/20/2021 15:00
Sodium	**4,800**		**18**	**20**	**mg/L**	100	12/20/2021 15:39
HOT WATER SOLUBLE BORON BY ICP-MS		Method: **SW6020B**			Prep: EXTRACT / 12/17/21		Analyst: **STP**
Boron (Hot Water Soluble)	**1.8**		**0.024**	**0.59**	**mg/Kg-dry**	10	12/20/2021 16:36
SODIUM ADSORPTION RATIO		Method: **USDA H60 METHOD 20B**			Prep: USDA Method 20B / 12/20/21		Analyst: **STP**
Sodium Adsorption Ratio	**34**		**0.010**	**0.010**	**none**	1	12/20/2021
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS)		Method: **SW8270E**			Prep: SW3546 / 12/17/21		Analyst: **EEW**
1-Methylnaphthalene	**0.15**		**0.025**	**0.042**	**mg/Kg-dry**	1	12/19/2021 18:43
2-Methylnaphthalene	**0.19**		**0.029**	**0.042**	**mg/Kg-dry**	1	12/19/2021 18:43
Acenaphthene	U		0.036	0.042	mg/Kg-dry	1	12/19/2021 18:43
Anthracene	U		0.038	0.042	mg/Kg-dry	1	12/19/2021 18:43
Benzo(a)anthracene	U		0.041	0.042	mg/Kg-dry	1	12/19/2021 18:43
Benzo(a)pyrene	U		0.034	0.042	mg/Kg-dry	1	12/19/2021 18:43
Benzo(b)fluoranthene	U		0.036	0.042	mg/Kg-dry	1	12/19/2021 18:43
Benzo(k)fluoranthene	U		0.034	0.042	mg/Kg-dry	1	12/19/2021 18:43
Chrysene	U		0.039	0.042	mg/Kg-dry	1	12/19/2021 18:43

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

Client: Entrada Consulting Group
Project: 38 Header Spill
Sample ID: 38 HDR-SS10
Collection Date: 12/7/2021

Work Order: 21121004
Lab ID: 21121004-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Dibenzo(a,h)anthracene	U		0.034	0.042	mg/Kg-dry	1	12/19/2021 18:43
Fluoranthene	U		0.033	0.042	mg/Kg-dry	1	12/19/2021 18:43
Fluorene	U		0.033	0.042	mg/Kg-dry	1	12/19/2021 18:43
Indeno(1,2,3-cd)pyrene	U		0.037	0.042	mg/Kg-dry	1	12/19/2021 18:43
Naphthalene	U		0.041	0.042	mg/Kg-dry	1	12/19/2021 18:43
Pyrene	U		0.040	0.042	mg/Kg-dry	1	12/19/2021 18:43
Surr: 2-Fluorobiphenyl	*84.5*			*20-140*	*%REC*	1	12/19/2021 18:43
Surr: 4-Terphenyl-d14	*62.4*			*22-172*	*%REC*	1	12/19/2021 18:43
Surr: Nitrobenzene-d5	*82.6*			*28-140*	*%REC*	1	12/19/2021 18:43
VOLATILE ORGANIC COMPOUNDS		Method:	**SW8260C**		Prep: SW5035A / 12/14/21		Analyst: **MF**
1,2,4-Trimethylbenzene	**0.33**		**0.044**	**0.060**	**mg/Kg-dry**	1	12/16/2021 09:19
1,3,5-Trimethylbenzene	**0.13**	J	**0.069**	**0.20**	**mg/Kg-dry**	1	12/16/2021 09:19
Benzene	U		0.029	0.060	mg/Kg-dry	1	12/16/2021 09:19
Ethylbenzene	**0.034**	J	**0.013**	**0.060**	**mg/Kg-dry**	1	12/16/2021 09:19
m,p-Xylene	**0.17**		**0.079**	**0.12**	**mg/Kg-dry**	1	12/16/2021 09:19
o-Xylene	**0.083**		**0.023**	**0.060**	**mg/Kg-dry**	1	12/16/2021 09:19
Toluene	**0.033**	J	**0.016**	**0.060**	**mg/Kg-dry**	1	12/16/2021 09:19
Xylenes, Total	**0.25**		**0.079**	**0.18**	**mg/Kg-dry**	1	12/16/2021 09:19
Surr: 1,2-Dichloroethane-d4	*101*			*70-130*	*%REC*	1	12/16/2021 09:19
Surr: 4-Bromofluorobenzene	*97.5*			*70-130*	*%REC*	1	12/16/2021 09:19
Surr: Dibromofluoromethane	*96.8*			*70-130*	*%REC*	1	12/16/2021 09:19
Surr: Toluene-d8	*95.8*			*70-130*	*%REC*	1	12/16/2021 09:19
ELECTRICAL CONDUCTIVITY (SAR)		Method:	**USDA H60 METHOD 20B**		Prep: USDA Method 20B / 12/20/21		Analyst: **JMJ**
Electrical Conductivity @ Saturation	**31**		**0.011**	**0.10**	**mmhos/cm @25°C**	20	12/20/2021 10:47
CHROMIUM, HEXAVALENT		Method:	**SW7196A**		Prep: SW3060A / 12/15/21		Analyst: **RZM**
Chromium, Hexavalent	U		1.3	1.5	mg/Kg-dry	1	12/15/2021 18:24
MOISTURE		Method:	**SW3550C**				Analyst: **ALG**
Moisture	**33**		**0.10**	**0.10**	**% of sample**	1	12/15/2021 15:31
PH MEASURED IN SOIL PASTE		Method:	**USDA METHOD 20B**		Prep: USDA Method 20B / 12/20/21		Analyst: **JB**
pH @ Saturation	**11.3**		**0.15**	**0.15**	**s.u.-dry**	1	12/20/2021 17:30

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

ALS Group, USA

Date: 21-Dec-21

Client: Entrada Consulting Group

Work Order: 21121004

Project: 38 Header Spill

QC BATCH REPORT

Batch ID: **188933** Instrument ID **GC8** Method: **SW8015D**

MBLK Sample ID: **DBLKS1-188933-188933** Units: **mg/Kg** Analysis Date: **12/15/2021 06:47 PM**

Client ID: Run ID: **GC8_211215A** SeqNo: **8033725** Prep Date: **12/15/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
ERO (C10-C36)	U	20								
Surr: 4-Terphenyl-d14	*2.941*	0	*3.33*	0	*88.3*	*25-110*	0			

LCS Sample ID: **DLCSS1-188933-188933** Units: **mg/Kg** Analysis Date: **12/15/2021 07:25 PM**

Client ID: Run ID: **GC8_211215A** SeqNo: **8033726** Prep Date: **12/15/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
ERO (C10-C36)	668.7	20	667	0	100	50-133	0			
Surr: 4-Terphenyl-d14	*2.891*	0	*3.33*	0	*86.8*	*25-110*	0			

LCSD Sample ID: **DLCSDS1-188933-188933** Units: **mg/Kg** Analysis Date: **12/15/2021 08:02 PM**

Client ID: Run ID: **GC8_211215A** SeqNo: **8033727** Prep Date: **12/15/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
ERO (C10-C36)	719.2	20	667	0	108	50-133	668.7	7.28	30	
Surr: 4-Terphenyl-d14	*3.167*	0	*3.33*	0	*95.1*	*25-110*	2.891	*9.13*	*30*	

The following samples were analyzed in this batch: 21121004-01A 21121004-02A

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

Client: Entrada Consulting Group
Work Order: 21121004
Project: 38 Header Spill

QC BATCH REPORT

Batch ID: **188868** Instrument ID **GC9** Method: **SW8015D**

MBLK Sample ID: **MBLK-188868-188868** Units: **µg/Kg-dry** Analysis Date: **12/15/2021 05:50 PM**
Client ID: Run ID: **GC9_211215A** SeqNo: **8033807** Prep Date: **12/14/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	2814	5,000								J
Surr: Toluene-d8	*3980*	0	*5000*	0	*79.6*	*71-123*	0			

LCS Sample ID: **LCS-188868-188868** Units: **µg/Kg-dry** Analysis Date: **12/15/2021 05:07 PM**
Client ID: Run ID: **GC9_211215A** SeqNo: **8033806** Prep Date: **12/14/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	225800	5,000	250000	0	90.3	71-123	0			
Surr: Toluene-d8	*4201*	0	*5000*	0	*84*	*71-123*	0			

MS Sample ID: **21121004-02A MS** Units: **µg/Kg-dry** Analysis Date: **12/15/2021 08:24 PM**
Client ID: **38 HDR-SS10** Run ID: **GC9_211215A** SeqNo: **8033817** Prep Date: **12/14/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	470200	9,900	496300	21340	90.5	71-123	0			
Surr: Toluene-d8	*8475*	0	*9925*	0	*85.4*	*71-123*	0			

MSD Sample ID: **21121004-02A MSD** Units: **µg/Kg-dry** Analysis Date: **12/15/2021 08:46 PM**
Client ID: **38 HDR-SS10** Run ID: **GC9_211215A** SeqNo: **8033818** Prep Date: **12/14/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	476000	9,900	496300	21340	91.6	71-123	470200	1.23	30	
Surr: Toluene-d8	*7843*	0	*9925*	0	*79*	*71-123*	8475	*7.75*	*30*	

The following samples were analyzed in this batch: 21121004-01A 21121004-02A

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

Client: Entrada Consulting Group
Work Order: 21121004
Project: 38 Header Spill

QC BATCH REPORT

Batch ID: **189101** Instrument ID **ICPMS3** Method: **SW6020B**

MBLK Sample ID: **MBLK-189101-189101** Units: **mg/Kg** Analysis Date: **12/20/2021 03:59 PM**

Client ID: Run ID: **ICPMS3_211220B** SeqNo: **8047215** Prep Date: **12/17/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Boron (Hot Water Soluble)	U	0.040								

LCS Sample ID: **LCS-189101-189101** Units: **mg/Kg** Analysis Date: **12/20/2021 04:01 PM**

Client ID: Run ID: **ICPMS3_211220B** SeqNo: **8047216** Prep Date: **12/17/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Boron (Hot Water Soluble)	0.8734	0.040	1	0	87.3	80-120	0			

The following samples were analyzed in this batch: 21121004-01A 21121004-02A

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

Client: Entrada Consulting Group
Work Order: 21121004
Project: 38 Header Spill

QC BATCH REPORT

Batch ID: **189114** Instrument ID **ICPMS3** Method: **SW6020B**

MBLK Sample ID: **MBLK-189114-189114** Units: **mg/Kg** Analysis Date: **12/17/2021 10:56 PM**
Client ID: Run ID: **ICPMS3_211217B** SeqNo: **8041287** Prep Date: **12/17/2021** 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								
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-189114-189114** Units: **mg/Kg** Analysis Date: **12/17/2021 10:57 PM**
Client ID: Run ID: **ICPMS3_211217B** SeqNo: **8041288** Prep Date: **12/17/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.96	0.25	5	0	99.2	80-120	0			
Barium	5.278	0.25	5	0	106	80-120	0			
Cadmium	5.168	0.10	5	0	103	80-120	0			
Copper	5.437	0.25	5	0	109	80-120	0			
Lead	5.175	0.25	5	0	103	80-120	0			
Nickel	5.295	0.25	5	0	106	80-120	0			
Selenium	4.934	0.25	5	0	98.7	80-120	0			
Silver	5.127	0.25	5	0	103	80-120	0			
Zinc	5.097	0.50	5	0	102	80-120	0			

MS Sample ID: **21121339-05BMS** Units: **mg/Kg** Analysis Date: **12/17/2021 11:21 PM**
Client ID: Run ID: **ICPMS3_211217B** SeqNo: **8041301** Prep Date: **12/17/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	8.031	0.39	7.788	0.9163	91.4	75-125	0			
Barium	13.37	0.39	7.788	4.934	108	75-125	0			
Cadmium	7.142	0.16	7.788	-0.03056	92.1	75-125	0			
Copper	9.626	0.39	7.788	2.531	91.1	75-125	0			
Lead	8.913	0.39	7.788	1.207	99	75-125	0			
Nickel	8.912	0.39	7.788	1.402	96.4	75-125	0			
Selenium	6.853	0.39	7.788	0.03897	87.5	75-125	0			
Silver	7.075	0.39	7.788	0.003922	90.8	75-125	0			
Zinc	13.3	0.78	7.788	5.558	99.4	75-125	0			

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

Client: Entrada Consulting Group
Work Order: 21121004
Project: 38 Header Spill

QC BATCH REPORT

Batch ID: **189114** Instrument ID **ICPMS3** Method: **SW6020B**

MSD Sample ID: **21121339-05BMSD** Units: **mg/Kg** Analysis Date: **12/17/2021 11:27 PM**

Client ID: Run ID: **ICPMS3_211217B** SeqNo: **8041304** Prep Date: **12/17/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	8.231	0.41	8.117	0.9163	90.1	75-125	8.031	2.46	20	
Barium	14.29	0.41	8.117	4.934	115	75-125	13.37	6.65	20	
Cadmium	7.446	0.16	8.117	-0.03056	92.1	75-125	7.142	4.16	20	
Copper	10.28	0.41	8.117	2.531	95.4	75-125	9.626	6.53	20	
Lead	9.346	0.41	8.117	1.207	100	75-125	8.913	4.74	20	
Nickel	9.097	0.41	8.117	1.402	94.8	75-125	8.912	2.06	20	
Selenium	7.095	0.41	8.117	0.03897	86.9	75-125	6.853	3.47	20	
Silver	7.377	0.41	8.117	0.003922	90.8	75-125	7.075	4.18	20	
Zinc	13.44	0.81	8.117	5.558	97.1	75-125	13.3	1.02	20	

The following samples were analyzed in this batch: 21121004-01A 21121004-02A

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

Client: Entrada Consulting Group
Work Order: 21121004
Project: 38 Header Spill

QC BATCH REPORT

Batch ID: **189207** Instrument ID **ICPMS4** Method: **SW6020B**

DUP Sample ID: **21121004-01ADUP** Units: **mg/L** Analysis Date: **12/20/2021 02:58 PM**
Client ID: **38 HDR-SS9** Run ID: **ICPMS4_211220A** SeqNo: **8044810** Prep Date: **12/20/2021** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	600.7	5.0	0	0	0	0-0	638.6	6.12		
Magnesium	708.7	2.0	0	0	0	0-0	810	13.3		

DUP Sample ID: **21121004-01ADUP** Units: **mg/L** Analysis Date: **12/20/2021 03:37 PM**
Client ID: **38 HDR-SS9** Run ID: **ICPMS4_211220A** SeqNo: **8044833** Prep Date: **12/20/2021** DF: **100**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium	6483	20	0	0	0	0-0	7180	10.2		

The following samples were analyzed in this batch: 21121004-01A 21121004-02A

Batch ID: **189207** Instrument ID **SAR** Method: **USDA H60 Metho**

DUP Sample ID: **21121004-01ADUP** Units: **none** Analysis Date: **12/20/2021**
Client ID: **38 HDR-SS9** Run ID: **SAR_211220A** SeqNo: **8044996** Prep Date: **12/20/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	42.44	0.010	0	0	0		46.65	9.46	50	

The following samples were analyzed in this batch: 21121004-01A 21121004-02A

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

Client: Entrada Consulting Group
Work Order: 21121004
Project: 38 Header Spill

QC BATCH REPORT

Batch ID: **189130** Instrument ID **SVMS6** Method: **SW8270E**

MBLK Sample ID: **SBLKS1-189130-189130** Units: **µg/Kg** Analysis Date: **12/19/2021 03:22 PM**
Client ID: Run ID: **SVMS6_211219A** SeqNo: **8044291** Prep Date: **12/17/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1-Methylnaphthalene	U	4.2								
2-Methylnaphthalene	U	4.2								
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	*593.8*	0	*666.6*	0	*89.1*	*20-140*	0			
Surr: 4-Terphenyl-d14	*519.3*	0	*666.6*	0	*77.9*	*22-172*	0			
Surr: Nitrobenzene-d5	*658*	0	*666.6*	0	*98.7*	*28-140*	0			

LCS Sample ID: **SLCSS1-189130-189130** Units: **µg/Kg** Analysis Date: **12/19/2021 03:37 PM**
Client ID: Run ID: **SVMS6_211219A** SeqNo: **8044292** Prep Date: **12/17/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1-Methylnaphthalene	577.6	4.2	666.6	0	86.7	40-140	0			
2-Methylnaphthalene	629.1	4.2	666.6	0	94.4	40-140	0			
Acenaphthene	599.1	4.2	666.6	0	89.9	40-140	0			
Anthracene	613.6	4.2	666.6	0	92	40-140	0			
Benzo(a)anthracene	564.3	4.2	666.6	0	84.6	40-140	0			
Benzo(a)pyrene	592.8	4.2	666.6	0	88.9	40-140	0			
Benzo(b)fluoranthene	500.3	4.2	666.6	0	75	40-140	0			
Benzo(k)fluoranthene	550	4.2	666.6	0	82.5	40-140	0			
Chrysene	588.4	4.2	666.6	0	88.3	40-140	0			
Dibenzo(a,h)anthracene	517.7	4.2	666.6	0	77.7	40-140	0			
Fluoranthene	620.4	4.2	666.6	0	93.1	40-140	0			
Fluorene	571	4.2	666.6	0	85.7	40-140	0			
Indeno(1,2,3-cd)pyrene	473.3	4.2	666.6	0	71	40-140	0			
Naphthalene	606.7	4.2	666.6	0	91	40-140	0			
Pyrene	514.8	4.2	666.6	0	77.2	40-140	0			
Surr: 2-Fluorobiphenyl	*612.4*	0	*666.6*	0	*91.9*	*20-140*	0			
Surr: 4-Terphenyl-d14	*527*	0	*666.6*	0	*79.1*	*22-172*	0			
Surr: Nitrobenzene-d5	*569.3*	0	*666.6*	0	*85.4*	*28-140*	0			

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

Client: Entrada Consulting Group
Work Order: 21121004
Project: 38 Header Spill

QC BATCH REPORT

Batch ID: **189130** Instrument ID **SVMS6** Method: **SW8270E**

MS Sample ID: **21121339-08B MS** Units: **µg/Kg** Analysis Date: **12/21/2021 01:34 AM**
Client ID: Run ID: **SVMS6_211220A** SeqNo: **8048265** Prep Date: **12/17/2021** DF: **20**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1-Methylnaphthalene	23970	82	652.6	22440	233	40-140	0			SO
2-Methylnaphthalene	2224	82	652.6	0	341	40-140	0			S
Acenaphthene	2255	82	652.6	1828	65.3	40-140	0			
Anthracene	1892	82	652.6	1453	67.2	40-140	0			
Benzo(a)anthracene	672.9	82	652.6	38.25	97.2	40-140	0			
Benzo(a)pyrene	623.6	82	652.6	0	95.6	40-140	0			
Benzo(b)fluoranthene	551.8	82	652.6	0	84.6	40-140	0			
Benzo(k)fluoranthene	703.2	82	652.6	0	108	40-140	0			
Chrysene	832.5	82	652.6	140.7	106	40-140	0			
Dibenzo(a,h)anthracene	483.6	82	652.6	0	74.1	40-140	0			
Fluoranthene	878.5	82	652.6	91.14	121	40-140	0			
Fluorene	4378	82	652.6	3952	65.2	40-140	0			O
Indeno(1,2,3-cd)pyrene	429.1	82	652.6	0	65.8	40-140	0			
Naphthalene	1248	82	652.6	1881	-97.1	40-140	0			S
Pyrene	1425	82	652.6	861.2	86.5	40-140	0			
Surr: 2-Fluorobiphenyl	*1029*	0	*652.6*	0	*158*	*20-140*	0			*S*
Surr: 4-Terphenyl-d14	*742.7*	0	*652.6*	0	*114*	*22-172*	0			
Surr: Nitrobenzene-d5	*2698*	0	*652.6*	0	*413*	*28-140*	0			*S*

MSD Sample ID: **21121339-08B MSD** Units: **µg/Kg** Analysis Date: **12/21/2021 01:50 AM**
Client ID: Run ID: **SVMS6_211220A** SeqNo: **8048266** Prep Date: **12/17/2021** DF: **20**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1-Methylnaphthalene	23130	82	651.8	22440	105	40-140	23970	3.58	30	O
2-Methylnaphthalene	2036	82	651.8	0	312	40-140	2224	8.83	30	S
Acenaphthene	2302	82	651.8	1828	72.7	40-140	2255	2.09	30	
Anthracene	1885	82	651.8	1453	66.3	40-140	1892	0.359	30	
Benzo(a)anthracene	698.2	82	651.8	38.25	101	40-140	672.9	3.69	30	
Benzo(a)pyrene	618	82	651.8	0	94.8	40-140	623.6	0.905	30	
Benzo(b)fluoranthene	585.7	82	651.8	0	89.9	40-140	551.8	5.96	30	
Benzo(k)fluoranthene	689	82	651.8	0	106	40-140	703.2	2.04	30	
Chrysene	835.7	82	651.8	140.7	107	40-140	832.5	0.391	30	
Dibenzo(a,h)anthracene	490.9	82	651.8	0	75.3	40-140	483.6	1.49	30	
Fluoranthene	872.2	82	651.8	91.14	120	40-140	878.5	0.713	30	
Fluorene	4552	82	651.8	3952	91.9	40-140	4378	3.89	30	O
Indeno(1,2,3-cd)pyrene	444.6	82	651.8	0	68.2	40-140	429.1	3.54	30	
Naphthalene	2986	82	651.8	1881	170	40-140	1248	82.1	30	SR
Pyrene	1460	82	651.8	861.2	91.8	40-140	1425	2.37	30	
Surr: 2-Fluorobiphenyl	*1087*	0	*651.8*	0	*167*	*20-140*	1029	*5.43*	*30*	*S*
Surr: 4-Terphenyl-d14	*707.3*	0	*651.8*	0	*109*	*22-172*	742.7	*4.89*	*30*	
Surr: Nitrobenzene-d5	*2988*	0	*651.8*	0	*458*	*28-140*	2698	*10.2*	*30*	*S*

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

Client: Entrada Consulting Group
Work Order: 21121004
Project: 38 Header Spill

QC BATCH REPORT

Batch ID: **189130** Instrument ID **SVMS6** Method: **SW8270E**

The following samples were analyzed in this batch: 21121004-01A 21121004-02A

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

Client: Entrada Consulting Group
Work Order: 21121004
Project: 38 Header Spill

QC BATCH REPORT

Batch ID: **188865** Instrument ID **VMS8** Method: **SW8260C**

MBLK Sample ID: **MBLK-188865-188865** Units: **µg/Kg-dry** Analysis Date: **12/20/2021 07:44 PM**
Client ID: Run ID: **VMS8_211220B** SeqNo: **8046971** Prep Date: **12/14/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trimethylbenzene	U	30								
1,3,5-Trimethylbenzene	U	100								
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	*1020*	0	*1000*	0	*102*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*1012*	0	*1000*	0	*101*	*70-130*	0			
Surr: Dibromofluoromethane	*1004*	0	*1000*	0	*100*	*70-130*	0			
Surr: Toluene-d8	*990.5*	0	*1000*	0	*99*	*70-130*	0			

LCS Sample ID: **LCS-188865-188865** Units: **µg/Kg-dry** Analysis Date: **12/20/2021 06:31 PM**
Client ID: Run ID: **VMS8_211220B** SeqNo: **8046968** Prep Date: **12/14/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trimethylbenzene	884.5	30	1000	0	88.4	65-135	0			
1,3,5-Trimethylbenzene	920.5	100	1000	0	92	65-135	0			
Benzene	965.5	30	1000	0	96.6	75-125	0			
Ethylbenzene	922.5	30	1000	0	92.2	75-125	0			
m,p-Xylene	1837	60	2000	0	91.8	80-125	0			
o-Xylene	920.5	30	1000	0	92	75-125	0			
Toluene	953	30	1000	0	95.3	70-125	0			
Xylenes, Total	2758	90	3000	0	91.9	75-125	0			
Surr: 1,2-Dichloroethane-d4	*1006*	0	*1000*	0	*101*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*987*	0	*1000*	0	*98.7*	*70-130*	0			
Surr: Dibromofluoromethane	*1022*	0	*1000*	0	*102*	*70-130*	0			
Surr: Toluene-d8	*997.5*	0	*1000*	0	*99.8*	*70-130*	0			

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

Client: Entrada Consulting Group
Work Order: 21121004
Project: 38 Header Spill

QC BATCH REPORT

Batch ID: **188865** Instrument ID **VMS8** Method: **SW8260C**

MS Sample ID: **21121103-01A MS** Units: **µg/Kg-dry** Analysis Date: **12/21/2021 02:41 AM**
Client ID: Run ID: **VMS8_211220B** SeqNo: **8046996** Prep Date: **12/14/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trimethylbenzene	1262	39	1308	0	96.4	65-135	0			
1,3,5-Trimethylbenzene	1293	130	1308	0	98.8	65-135	0			
Benzene	1356	39	1308	0	104	75-125	0			
Ethylbenzene	1295	39	1308	0	98.9	75-125	0			
m,p-Xylene	2587	79	2617	0	98.9	80-125	0			
o-Xylene	1295	39	1308	0	98.9	75-125	0			
Toluene	1361	39	1308	0	104	70-125	0			
Xylenes, Total	3881	120	3925	0	98.9	75-125	0			
Surr: 1,2-Dichloroethane-d4	*1294*	0	*1308*	0	*98.9*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*1297*	0	*1308*	0	*99.1*	*70-130*	0			
Surr: Dibromofluoromethane	*1327*	0	*1308*	0	*101*	*70-130*	0			
Surr: Toluene-d8	*1286*	0	*1308*	0	*98.2*	*70-130*	0			

MSD Sample ID: **21121103-01A MSD** Units: **µg/Kg-dry** Analysis Date: **12/21/2021 02:59 AM**
Client ID: Run ID: **VMS8_211220B** SeqNo: **8046997** Prep Date: **12/14/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trimethylbenzene	1280	39	1308	0	97.8	65-135	1262	1.39	30	
1,3,5-Trimethylbenzene	1301	130	1308	0	99.4	65-135	1293	0.555	30	
Benzene	1335	39	1308	0	102	75-125	1356	1.6	30	
Ethylbenzene	1300	39	1308	0	99.3	75-125	1295	0.403	30	
m,p-Xylene	2584	79	2617	0	98.8	80-125	2587	0.101	30	
o-Xylene	1287	39	1308	0	98.3	75-125	1295	0.608	30	
Toluene	1350	39	1308	0	103	70-125	1361	0.869	30	
Xylenes, Total	3871	120	3925	0	98.6	75-125	3881	0.27	30	
Surr: 1,2-Dichloroethane-d4	*1316*	0	*1308*	0	*101*	*70-130*	1294	*1.7*	*30*	
Surr: 4-Bromofluorobenzene	*1308*	0	*1308*	0	*100*	*70-130*	1297	*0.854*	*30*	
Surr: Dibromofluoromethane	*1308*	0	*1308*	0	*100*	*70-130*	1327	*1.44*	*30*	
Surr: Toluene-d8	*1284*	0	*1308*	0	*98.1*	*70-130*	1286	*0.102*	*30*	

The following samples were analyzed in this batch: 21121004-01A 21121004-02A

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

Client: Entrada Consulting Group
Work Order: 21121004
Project: 38 Header Spill

QC BATCH REPORT

Batch ID: **189018** Instrument ID **SPEC-03** Method: **SW7196A**

MBLK Sample ID: **MBLK-189018-189018** Units: **mg/Kg** Analysis Date: **12/15/2021 06:24 PM**
Client ID: Run ID: **SPEC-03_211215B** SeqNo: **8033137** Prep Date: **12/15/2021** 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-189018-189018** Units: **mg/Kg** Analysis Date: **12/15/2021 06:24 PM**
Client ID: Run ID: **SPEC-03_211215B** SeqNo: **8033138** Prep Date: **12/15/2021** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	4.33	1.0	5	0	86.6	80-120	0			

MS Sample ID: **21120482-01A MS** Units: **mg/Kg** Analysis Date: **12/15/2021 06:24 PM**
Client ID: Run ID: **SPEC-03_211215B** SeqNo: **8033140** Prep Date: **12/15/2021** 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	-0.67	13.4	75-125	0			S

MS Sample ID: **21120482-01A MSI** Units: **mg/Kg** Analysis Date: **12/15/2021 06:24 PM**
Client ID: Run ID: **SPEC-03_211215B** SeqNo: **8033142** Prep Date: **12/15/2021** DF: **100**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	2470	100	2848	-0.67	86.8	75-125	0			

MSD Sample ID: **21120482-01A MSD** Units: **mg/Kg** Analysis Date: **12/15/2021 06:24 PM**
Client ID: Run ID: **SPEC-03_211215B** SeqNo: **8033141** Prep Date: **12/15/2021** 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	-0.67	13.4	75-125	-0.3	0	20	S

The following samples were analyzed in this batch: 21121004-01A 21121004-02A

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

Client: Entrada Consulting Group
Work Order: 21121004
Project: 38 Header Spill

QC BATCH REPORT

Batch ID: **189207** Instrument ID **WETCHEM** Method: **USDA H60 Metho**

DUP	Sample ID: **21121004-01A DUP**						Units: **mmhos/cm @25°**		Analysis Date: **12/20/2021 10:47 AM**	
Client ID: **38 HDR-SS9**	Run ID: **WETCHEM_211220H**				SeqNo: **8045379**		Prep Date: **12/20/2021**		DF: **20**	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	40	0.10	0	0	0		39.54	1.16	50	

DUP	Sample ID: **21121004-01A DUP**						Units: **s.u.**		Analysis Date: **12/20/2021 05:30 PM**	
Client ID: **38 HDR-SS9**	Run ID: **WETCHEM_211220N**				SeqNo: **8045394**		Prep Date: **12/20/2021**		DF: **1**	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH @ Saturation	7.5	0.10	0	0	0	0-0	7.49	0.133	20	

The following samples were analyzed in this batch: 21121004-01A 21121004-02A

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

Client: Entrada Consulting Group
Work Order: 21121004
Project: 38 Header Spill

QC BATCH REPORT

Batch ID: **R334544** Instrument ID **MOIST** Method: **SW3550C**

MBLK Sample ID: **WBLKS-R334544** Units: **% of sample** Analysis Date: **12/15/2021 03:31 PM**
Client ID: Run ID: **MOIST_211215B** SeqNo: **8033015** 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-R334544** Units: **% of sample** Analysis Date: **12/15/2021 03:31 PM**
Client ID: Run ID: **MOIST_211215B** SeqNo: **8033014** 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: **21120807-04B DUP** Units: **% of sample** Analysis Date: **12/15/2021 03:31 PM**
Client ID: Run ID: **MOIST_211215B** SeqNo: **8033000** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	21.25	0.10	0	0	0	0-0	21.2	0.236	10	

DUP Sample ID: **21121109-01A DUP** Units: **% of sample** Analysis Date: **12/15/2021 03:31 PM**
Client ID: Run ID: **MOIST_211215B** SeqNo: **8033004** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	7.87	0.10	0	0	0	0-0	8.33	5.68	10	

The following samples were analyzed in this batch: 21121004-01A 21121004-02A

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

Chain of Custody Form

ALS Environmental

Page 1 of 1

COC ID: 123456

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ALS Project Manager: | Work Order #: 2112004

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	38 HEADER SPILL	A	~~38HDR-SS9~~ BTEX, TMBs
Work Order		Project Number		B	~~38 HDR~~ TABLE 915 PAHs
Company Name	Entrada Consulting Group	Bill To Company	Entrada Consulting Group	C	TABLE 915 METALS
Send Report To	Tim Dobransky	Invoice Attn.	Tim Dobransky	D	HOT WATER SOLUBLE BORON
Address	330 Grand Avenue, Unit C	Address	330 Grand Avenue, Unit C	E	GRO
City/State/Zip	Grand Junction, CO 81501	City/State/Zip	Grand Junction, CO 81501	F	ERO
Phone	970.270.2986	Phone		G	SAR/EC/pH
Fax		Fax		H	
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	38HDR-SS9	12/7/21		SO	8/7	3	X	X	X	X	X	X	X				
2	38HDR-SS10	12/7/21		SO	8/7	3	X	X	X	X	X	X	X				
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s): Please Print & Sign: Jessica Dilka

Shipment Method: FedEx

Required Turnaround Time: ☑ STD 10 Wk Days ☐ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour ☐ Other _____

Results Due Date:

Relinquished by:	Date: ~~12/8/21~~ 12/7/21	Time:	Received by: FED EX	Notes:	
Relinquished by: FED EX	Date: 12/9/21	Time: 1000	Received by (Laboratory):	Cooler Temp.	QC Package: (Check Box Below)
Logged by (Laboratory): DES	Date: 12/13/21	Time: 0815	Checked by (Laboratory):	IR1 4.0°C	x Level II: Standard QC; Level III: Std QC + Raw Data; 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.

ALS Group, USA

Sample Receipt Checklist

Client Name: **ENTRADA** Date/Time Received: **09-Dec-21 10:00**

Work Order: **21121004** Received by: **DS**

Checklist completed by Diane Shaw (eSignature) 13-Dec-21 (Date) Reviewed by: Chad Whelton (eSignature) 13-Dec-21 (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:	12/13/2021 8:28:57 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: