



10-Apr-2020

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

Re: **Carney 41Y34 Spill**

Work Order: **20040274**

Dear Tim,

ALS Environmental received 5 samples on 03-Apr-2020 09:00 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 38.

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "Chad Whelton", is written over a faint, light-colored signature line.

Electronically approved by: Chad Whelton

Chad Whelton
Project Manager

Report of Laboratory Analysis

Certificate No: MN 026-999-449

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

Environmental ALS

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: Entrada Consulting Group
Project: Carney 41Y34 Spill
Work Order: 20040274

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
20040274-01	CAR41Y34-SS1	Soil		4/1/2020 09:30	4/3/2020 09:00	<input type="checkbox"/>
20040274-02	CAR41Y34-SS2	Soil		4/1/2020 09:45	4/3/2020 09:00	<input type="checkbox"/>
20040274-03	CAR41Y34-SS3	Soil		4/1/2020 10:00	4/3/2020 09:00	<input type="checkbox"/>
20040274-04	CAR41Y34-SS4	Soil		4/1/2020 10:15	4/3/2020 09:00	<input type="checkbox"/>
20040274-05	CAR41Y34-BG1	Soil		4/1/2020 10:30	4/3/2020 09:00	<input type="checkbox"/>

Client: Entrada Consulting Group

Project: Carney 41Y34 Spill

Work Order: 20040274

Case Narrative

Batch 154361, Method HG_7471_S, Sample LCS-154361: The LCS recovery was above the upper control limit for Mercury. The sample results for this batch may be biased high.

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

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

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

s.u. Standard Units

ALS Group, USA

Date: 10-Apr-20

Client: Entrada Consulting Group
 Project: Carney 41Y34 Spill
 Sample ID: CAR41Y34-SS1
 Collection Date: 4/1/2020 09:30 AM

Work Order: 20040274
 Lab ID: 20040274-01
 Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW3550 / 4/7/20		Analyst: AK
DRO (C10-C28)	9.7	J	3.4	12	mg/Kg-dry	1	4/8/2020 07:16
Surr: 4-Terphenyl-d14	85.8			33-111	%REC	1	4/8/2020 07:16
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW5035 / 4/6/20		Analyst: RM
GRO (C6-C10)	15		3.0	7.2	mg/Kg	1	4/8/2020 10:53
Surr: Toluene-d8	111			71-123	%REC	1	4/8/2020 10:53
MERCURY BY CVAA							
			Method: SW7471B		Prep: SW7471 / 4/8/20		Analyst: MAC
Mercury	0.027		0.014	0.020	mg/Kg-dry	1	4/9/2020 11:58
METALS BY ICP-MS							
			Method: SW6020B		Prep: SW3050B / 4/8/20		Analyst: STP
Arsenic	7.4		0.058	0.48	mg/Kg-dry	1	4/8/2020 21:56
Barium	210		4.4	4.8	mg/Kg-dry	10	4/9/2020 16:15
Cadmium	0.22		0.029	0.19	mg/Kg-dry	1	4/8/2020 21:56
Chromium	12		0.21	0.48	mg/Kg-dry	1	4/8/2020 21:56
Copper	13		0.48	0.48	mg/Kg-dry	1	4/8/2020 21:56
Lead	20		0.23	0.48	mg/Kg-dry	1	4/8/2020 21:56
Nickel	17		0.25	0.48	mg/Kg-dry	1	4/8/2020 21:56
Selenium	1.4		0.44	0.48	mg/Kg-dry	1	4/8/2020 21:56
Silver	0.083	J	0.064	0.48	mg/Kg-dry	1	4/8/2020 21:56
Zinc	71		0.94	0.96	mg/Kg-dry	1	4/8/2020 21:56
SOLUBLE CATIONS FOR SAR							
			Method: SW6020B		Prep: USDA Method 20B / 4/9/20		Analyst: STP
Calcium	470		2.5	5.0	mg/L	10	4/9/2020 16:39
Magnesium	44		0.50	2.0	mg/L	10	4/9/2020 16:39
Sodium	55		0.45	2.0	mg/L	10	4/9/2020 16:39
SODIUM ADSORPTION RATIO							
			Method: USDA H60 METHOD 2		Prep: USDA Method 20B / 4/9/20		Analyst: STP
Sodium Adsorption Ratio	0.65		0.010	0.010	none	1	4/9/2020
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS)							
			Method: SW846 8270D		Prep: SW3546 / 4/6/20		Analyst: EEW
Acenaphthene	U		0.00095	0.0049	mg/Kg-dry	1	4/7/2020 18:33
Anthracene	U		0.0017	0.0049	mg/Kg-dry	1	4/7/2020 18:33
Benzo(a)anthracene	U		0.0020	0.0049	mg/Kg-dry	1	4/7/2020 18:33
Benzo(a)pyrene	U		0.0013	0.0049	mg/Kg-dry	1	4/7/2020 18:33
Benzo(b)fluoranthene	U		0.0012	0.0049	mg/Kg-dry	1	4/7/2020 18:33
Benzo(k)fluoranthene	U		0.0014	0.0049	mg/Kg-dry	1	4/7/2020 18:33
Chrysene	U		0.0010	0.0049	mg/Kg-dry	1	4/7/2020 18:33
Dibenzo(a,h)anthracene	U		0.0012	0.0049	mg/Kg-dry	1	4/7/2020 18:33
Fluoranthene	U		0.00090	0.0049	mg/Kg-dry	1	4/7/2020 18:33

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

ALS Group, USA

Date: 10-Apr-20

Client: Entrada Consulting Group
Project: Carney 41Y34 Spill
Sample ID: CAR41Y34-SS1
Collection Date: 4/1/2020 09:30 AM

Work Order: 20040274
Lab ID: 20040274-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	U		0.0016	0.0049	mg/Kg-dry	1	4/7/2020 18:33
Indeno(1,2,3-cd)pyrene	U		0.0018	0.0049	mg/Kg-dry	1	4/7/2020 18:33
Naphthalene	U		0.0021	0.0049	mg/Kg-dry	1	4/7/2020 18:33
Pyrene	U		0.00081	0.0049	mg/Kg-dry	1	4/7/2020 18:33
Surr: 2-Fluorobiphenyl	92.6			20-140	%REC	1	4/7/2020 18:33
Surr: 4-Terphenyl-d14	80.8			22-172	%REC	1	4/7/2020 18:33
Surr: Nitrobenzene-d5	73.5			28-140	%REC	1	4/7/2020 18:33
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C		Prep: SW5035 / 4/6/20		Analyst: SJB
Benzene	U		0.0074	0.043	mg/Kg-dry	1	4/6/2020 23:24
Ethylbenzene	U		0.0091	0.043	mg/Kg-dry	1	4/6/2020 23:24
m,p-Xylene	U		0.058	0.086	mg/Kg-dry	1	4/6/2020 23:24
o-Xylene	U		0.017	0.043	mg/Kg-dry	1	4/6/2020 23:24
Toluene	U		0.012	0.043	mg/Kg-dry	1	4/6/2020 23:24
Xylenes, Total	U		0.058	0.13	mg/Kg-dry	1	4/6/2020 23:24
Surr: 1,2-Dichloroethane-d4	94.4			70-130	%REC	1	4/6/2020 23:24
Surr: 4-Bromofluorobenzene	96.7			70-130	%REC	1	4/6/2020 23:24
Surr: Dibromofluoromethane	96.6			70-130	%REC	1	4/6/2020 23:24
Surr: Toluene-d8	96.0			70-130	%REC	1	4/6/2020 23:24
ELECTRICAL CONDUCTIVITY (SAR)			Method: USDA H60 METHOD 2		Prep: USDA Method 20B / 4/9/20		Analyst: QTN
Electrical Conductivity @ Saturation	3.2		0.011	0.10	mmhos/cm @25°	20	4/9/2020 16:05
CHROMIUM, TRIVALENT			Method: CALCULATION				Analyst: JZB
Chromium, Trivalent	12		1.0	1.2	mg/Kg-dry	1	4/9/2020 13:03
CHROMIUM, HEXAVALENT			Method: SW7196A		Prep: SW3060A / 4/7/20		Analyst: RZM
Chromium, Hexavalent	U		1.0	1.2	mg/Kg-dry	1	4/9/2020 12:03
MOISTURE			Method: SW3550C				Analyst: KTP
Moisture	17		0.10	0.10	% of sample	1	4/6/2020 11:25
PH			Method: SW9045D		Prep: EXTRACT / 4/3/20		Analyst: DVD
pH	7.96		0.10	0.100	s.u.	1	4/4/2020 08:59
Temperature	19.8		0.10	0.100	°C	1	4/4/2020 08:59

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

ALS Group, USA

Date: 10-Apr-20

Client: Entrada Consulting Group
Project: Carney 41Y34 Spill
Sample ID: CAR41Y34-SS2
Collection Date: 4/1/2020 09:45 AM

Work Order: 20040274
Lab ID: 20040274-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
				Method: SW8015D		Prep: SW3550 / 4/7/20	Analyst: AK
DRO (C10-C28)	9.1	J	3.5	12	mg/Kg-dry	1	4/8/2020 07:55
Surr: 4-Terphenyl-d14	88.2			33-111	%REC	1	4/8/2020 07:55
GASOLINE RANGE ORGANICS BY GC-FID							
				Method: SW8015D		Prep: SW5035 / 4/6/20	Analyst: RM
GRO (C6-C10)		U	2.7	6.5	mg/Kg	1	4/8/2020 11:16
Surr: Toluene-d8	112			71-123	%REC	1	4/8/2020 11:16
MERCURY BY CVAA							
				Method: SW7471B		Prep: SW7471 / 4/8/20	Analyst: MAC
Mercury	0.032		0.013	0.019	mg/Kg-dry	1	4/9/2020 12:00
METALS BY ICP-MS							
				Method: SW6020B		Prep: SW3050B / 4/8/20	Analyst: STP
Arsenic	6.0		0.048	0.40	mg/Kg-dry	1	4/8/2020 22:05
Barium	260		3.7	4.0	mg/Kg-dry	10	4/9/2020 16:20
Cadmium	0.22		0.024	0.16	mg/Kg-dry	1	4/8/2020 22:05
Chromium	11		0.18	0.40	mg/Kg-dry	1	4/8/2020 22:05
Copper	14		0.40	0.40	mg/Kg-dry	1	4/8/2020 22:05
Lead	16		0.19	0.40	mg/Kg-dry	1	4/8/2020 22:05
Nickel	15		0.21	0.40	mg/Kg-dry	1	4/8/2020 22:05
Selenium	1.3		0.37	0.40	mg/Kg-dry	1	4/8/2020 22:05
Silver	0.16	J	0.053	0.40	mg/Kg-dry	1	4/8/2020 22:05
Zinc	60		0.79	0.80	mg/Kg-dry	1	4/8/2020 22:05
SOLUBLE CATIONS FOR SAR							
				Method: SW6020B		Prep: USDA Method 20B / 4/9/20	Analyst: STP
Calcium	34		2.5	5.0	mg/L	10	4/9/2020 16:40
Magnesium	6.5		0.50	2.0	mg/L	10	4/9/2020 16:40
Sodium	32		0.45	2.0	mg/L	10	4/9/2020 16:40
SODIUM ADSORPTION RATIO							
				Method: USDA H60 METHOD 2		Prep: USDA Method 20B / 4/9/20	Analyst: STP
Sodium Adsorption Ratio	1.3		0.010	0.010	none	1	4/9/2020
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS)							
				Method: SW846 8270D		Prep: SW3546 / 4/6/20	Analyst: EEW
Acenaphthene	U		0.00097	0.0050	mg/Kg-dry	1	4/7/2020 18:48
Anthracene	U		0.0017	0.0050	mg/Kg-dry	1	4/7/2020 18:48
Benzo(a)anthracene	U		0.0021	0.0050	mg/Kg-dry	1	4/7/2020 18:48
Benzo(a)pyrene	U		0.0014	0.0050	mg/Kg-dry	1	4/7/2020 18:48
Benzo(b)fluoranthene	U		0.0012	0.0050	mg/Kg-dry	1	4/7/2020 18:48
Benzo(k)fluoranthene	U		0.0015	0.0050	mg/Kg-dry	1	4/7/2020 18:48
Chrysene	U		0.0010	0.0050	mg/Kg-dry	1	4/7/2020 18:48
Dibenzo(a,h)anthracene	U		0.0012	0.0050	mg/Kg-dry	1	4/7/2020 18:48
Fluoranthene	U		0.00092	0.0050	mg/Kg-dry	1	4/7/2020 18:48

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

ALS Group, USA

Date: 10-Apr-20

Client: Entrada Consulting Group
Project: Carney 41Y34 Spill
Sample ID: CAR41Y34-SS2
Collection Date: 4/1/2020 09:45 AM

Work Order: 20040274
Lab ID: 20040274-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	U		0.0017	0.0050	mg/Kg-dry	1	4/7/2020 18:48
Indeno(1,2,3-cd)pyrene	U		0.0018	0.0050	mg/Kg-dry	1	4/7/2020 18:48
Naphthalene	U		0.0022	0.0050	mg/Kg-dry	1	4/7/2020 18:48
Pyrene	U		0.00083	0.0050	mg/Kg-dry	1	4/7/2020 18:48
Surr: 2-Fluorobiphenyl	100			20-140	%REC	1	4/7/2020 18:48
Surr: 4-Terphenyl-d14	92.1			22-172	%REC	1	4/7/2020 18:48
Surr: Nitrobenzene-d5	82.8			28-140	%REC	1	4/7/2020 18:48
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C		Prep: SW5035 / 4/6/20		Analyst: SJB
Benzene	U		0.0067	0.039	mg/Kg-dry	1	4/6/2020 23:03
Ethylbenzene	U		0.0082	0.039	mg/Kg-dry	1	4/6/2020 23:03
m,p-Xylene	U		0.052	0.078	mg/Kg-dry	1	4/6/2020 23:03
o-Xylene	U		0.015	0.039	mg/Kg-dry	1	4/6/2020 23:03
Toluene	U		0.011	0.039	mg/Kg-dry	1	4/6/2020 23:03
Xylenes, Total	U		0.052	0.12	mg/Kg-dry	1	4/6/2020 23:03
Surr: 1,2-Dichloroethane-d4	97.6			70-130	%REC	1	4/6/2020 23:03
Surr: 4-Bromofluorobenzene	99.3			70-130	%REC	1	4/6/2020 23:03
Surr: Dibromofluoromethane	102			70-130	%REC	1	4/6/2020 23:03
Surr: Toluene-d8	97.7			70-130	%REC	1	4/6/2020 23:03
ELECTRICAL CONDUCTIVITY (SAR)			Method: USDA H60 METHOD 2		Prep: USDA Method 20B / 4/9/20		Analyst: QTN
Electrical Conductivity @ Saturation	0.36		0.011	0.10	mmhos/cm @25°	20	4/9/2020 16:05
CHROMIUM, TRIVALENT			Method: CALCULATION				Analyst: JZB
Chromium, Trivalent	9.6		1.0	1.2	mg/Kg-dry	1	4/9/2020 13:03
CHROMIUM, HEXAVALENT			Method: SW7196A		Prep: SW3060A / 4/7/20		Analyst: RZM
Chromium, Hexavalent	1.1	J	1.0	1.2	mg/Kg-dry	1	4/9/2020 12:03
MOISTURE			Method: SW3550C				Analyst: KTP
Moisture	19		0.10	0.10	% of sample	1	4/6/2020 11:25
PH			Method: SW9045D		Prep: EXTRACT / 4/3/20		Analyst: DVD
pH	8.29		0.10	0.100	s.u.	1	4/4/2020 08:59
Temperature	19.8		0.10	0.100	°C	1	4/4/2020 08:59

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

ALS Group, USA

Date: 10-Apr-20

Client: Entrada Consulting Group
 Project: Carney 41Y34 Spill
 Sample ID: CAR41Y34-SS3
 Collection Date: 4/1/2020 10:00 AM

Work Order: 20040274
 Lab ID: 20040274-03
 Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
				Method: SW8015D		Prep: SW3550 / 4/7/20	Analyst: AK
DRO (C10-C28)	7.1	J	3.3	11	mg/Kg-dry	1	4/8/2020 08:34
Surr: 4-Terphenyl-d14	85.7			33-111	%REC	1	4/8/2020 08:34
GASOLINE RANGE ORGANICS BY GC-FID							
				Method: SW8015D		Prep: SW5035 / 4/6/20	Analyst: RM
GRO (C6-C10)	U		3.1	7.4	mg/Kg	1	4/8/2020 11:39
Surr: Toluene-d8	106			71-123	%REC	1	4/8/2020 11:39
MERCURY BY CVAA							
				Method: SW7471B		Prep: SW7471 / 4/8/20	Analyst: MAC
Mercury	0.016	J	0.013	0.018	mg/Kg-dry	1	4/9/2020 12:02
METALS BY ICP-MS							
				Method: SW6020B		Prep: SW3050B / 4/8/20	Analyst: STP
Arsenic	12		0.048	0.40	mg/Kg-dry	1	4/8/2020 22:11
Barium	270		3.7	4.0	mg/Kg-dry	10	4/9/2020 16:21
Cadmium	0.30		0.024	0.16	mg/Kg-dry	1	4/8/2020 22:11
Chromium	9.7		0.18	0.40	mg/Kg-dry	1	4/8/2020 22:11
Copper	14		0.40	0.40	mg/Kg-dry	1	4/8/2020 22:11
Lead	21		0.19	0.40	mg/Kg-dry	1	4/8/2020 22:11
Nickel	19		0.21	0.40	mg/Kg-dry	1	4/8/2020 22:11
Selenium	1.1		0.37	0.40	mg/Kg-dry	1	4/8/2020 22:11
Silver	0.060	J	0.053	0.40	mg/Kg-dry	1	4/8/2020 22:11
Zinc	81		0.79	0.81	mg/Kg-dry	1	4/8/2020 22:11
SOLUBLE CATIONS FOR SAR							
				Method: SW6020B		Prep: USDA Method 20B / 4/9/20	Analyst: STP
Calcium	32		2.5	5.0	mg/L	10	4/9/2020 16:42
Magnesium	7.7		0.50	2.0	mg/L	10	4/9/2020 16:42
Sodium	61		0.45	2.0	mg/L	10	4/9/2020 16:42
SODIUM ADSORPTION RATIO							
				Method: USDA H60 METHOD 2		Prep: USDA Method 20B / 4/9/20	Analyst: STP
Sodium Adsorption Ratio	2.5		0.010	0.010	none	1	4/9/2020
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS)							
				Method: SW846 8270D		Prep: SW3546 / 4/8/20	Analyst: EEW
Acenaphthene	U		0.00095	0.0049	mg/Kg-dry	1	4/8/2020 18:11
Anthracene	U		0.0017	0.0049	mg/Kg-dry	1	4/8/2020 18:11
Benzo(a)anthracene	U		0.0020	0.0049	mg/Kg-dry	1	4/8/2020 18:11
Benzo(a)pyrene	U		0.0013	0.0049	mg/Kg-dry	1	4/8/2020 18:11
Benzo(b)fluoranthene	U		0.0012	0.0049	mg/Kg-dry	1	4/8/2020 18:11
Benzo(k)fluoranthene	U		0.0014	0.0049	mg/Kg-dry	1	4/8/2020 18:11
Chrysene	U		0.0010	0.0049	mg/Kg-dry	1	4/8/2020 18:11
Dibenzo(a,h)anthracene	U		0.0011	0.0049	mg/Kg-dry	1	4/8/2020 18:11
Fluoranthene	U		0.00090	0.0049	mg/Kg-dry	1	4/8/2020 18:11

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

ALS Group, USA

Date: 10-Apr-20

Client: Entrada Consulting Group
Project: Carney 41Y34 Spill
Sample ID: CAR41Y34-SS3
Collection Date: 4/1/2020 10:00 AM

Work Order: 20040274
Lab ID: 20040274-03
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	U		0.0016	0.0049	mg/Kg-dry	1	4/8/2020 18:11
Indeno(1,2,3-cd)pyrene	U		0.0018	0.0049	mg/Kg-dry	1	4/8/2020 18:11
Naphthalene	U		0.0021	0.0049	mg/Kg-dry	1	4/8/2020 18:11
Pyrene	U		0.00081	0.0049	mg/Kg-dry	1	4/8/2020 18:11
Surr: 2-Fluorobiphenyl	109			20-140	%REC	1	4/8/2020 18:11
Surr: 4-Terphenyl-d14	104			22-172	%REC	1	4/8/2020 18:11
Surr: Nitrobenzene-d5	90.9			28-140	%REC	1	4/8/2020 18:11
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C		Prep: SW5035 / 4/6/20		Analyst: SJB
Benzene	U		0.0076	0.044	mg/Kg-dry	1	4/6/2020 22:43
Ethylbenzene	U		0.0093	0.044	mg/Kg-dry	1	4/6/2020 22:43
m,p-Xylene	U		0.059	0.088	mg/Kg-dry	1	4/6/2020 22:43
o-Xylene	U		0.017	0.044	mg/Kg-dry	1	4/6/2020 22:43
Toluene	U		0.012	0.044	mg/Kg-dry	1	4/6/2020 22:43
Xylenes, Total	U		0.059	0.13	mg/Kg-dry	1	4/6/2020 22:43
Surr: 1,2-Dichloroethane-d4	97.0			70-130	%REC	1	4/6/2020 22:43
Surr: 4-Bromofluorobenzene	97.4			70-130	%REC	1	4/6/2020 22:43
Surr: Dibromofluoromethane	100			70-130	%REC	1	4/6/2020 22:43
Surr: Toluene-d8	95.7			70-130	%REC	1	4/6/2020 22:43
ELECTRICAL CONDUCTIVITY (SAR)			Method: USDA H60 METHOD 2		Prep: USDA Method 20B / 4/9/20		Analyst: QTN
Electrical Conductivity @ Saturation	0.45		0.011	0.10	mmhos/cm @25°	20	4/9/2020 16:05
CHROMIUM, TRIVALENT			Method: CALCULATION				Analyst: JZB
Chromium, Trivalent	9.7		1.0	1.2	mg/Kg-dry	1	4/9/2020 13:03
CHROMIUM, HEXAVALENT			Method: SW7196A		Prep: SW3060A / 4/7/20		Analyst: RZM
Chromium, Hexavalent	U		0.98	1.2	mg/Kg-dry	1	4/9/2020 12:03
MOISTURE			Method: SW3550C				Analyst: KTP
Moisture	16		0.10	0.10	% of sample	1	4/6/2020 11:25
PH			Method: SW9045D		Prep: EXTRACT / 4/3/20		Analyst: DVD
pH	8.37		0.10	0.100	s.u.	1	4/4/2020 08:59
Temperature	19.5		0.10	0.100	°C	1	4/4/2020 08:59

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

ALS Group, USA

Date: 10-Apr-20

Client: Entrada Consulting Group
Project: Carney 41Y34 Spill
Sample ID: CAR41Y34-SS4
Collection Date: 4/1/2020 10:15 AM

Work Order: 20040274
Lab ID: 20040274-04
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW3550 / 4/7/20		Analyst: AK
DRO (C10-C28)	11	J	3.3	12	mg/Kg-dry	1	4/8/2020 09:12
<i>Surr: 4-Terphenyl-d14</i>	83.7			33-111	%REC	1	4/8/2020 09:12
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW5035 / 4/6/20		Analyst: RM
GRO (C6-C10)	U		2.7	6.5	mg/Kg	1	4/8/2020 12:02
<i>Surr: Toluene-d8</i>	109			71-123	%REC	1	4/8/2020 12:02
MERCURY BY CVAA							
			Method: SW7471B		Prep: SW7471 / 4/10/20		Analyst: MAC
Mercury	0.024		0.013	0.018	mg/Kg-dry	1	4/10/2020 11:19
METALS BY ICP-MS							
			Method: SW6020B		Prep: SW3050B / 4/8/20		Analyst: STP
Arsenic	5.8		0.046	0.39	mg/Kg-dry	1	4/8/2020 22:13
Barium	300		3.5	3.9	mg/Kg-dry	10	4/9/2020 16:26
Cadmium	0.19		0.023	0.15	mg/Kg-dry	1	4/8/2020 22:13
Chromium	9.6		0.17	0.39	mg/Kg-dry	1	4/8/2020 22:13
Copper	9.7		0.39	0.39	mg/Kg-dry	1	4/8/2020 22:13
Lead	16		0.19	0.39	mg/Kg-dry	1	4/8/2020 22:13
Nickel	13		0.20	0.39	mg/Kg-dry	1	4/8/2020 22:13
Selenium	0.92		0.35	0.39	mg/Kg-dry	1	4/8/2020 22:13
Silver	0.066	J	0.051	0.39	mg/Kg-dry	1	4/8/2020 22:13
Zinc	54		0.76	0.77	mg/Kg-dry	1	4/8/2020 22:13
SOLUBLE CATIONS FOR SAR							
			Method: SW6020B		Prep: USDA Method 20B / 4/9/20		Analyst: STP
Calcium	50		2.5	5.0	mg/L	10	4/9/2020 16:44
Magnesium	9.9		0.50	2.0	mg/L	10	4/9/2020 16:44
Sodium	53		0.45	2.0	mg/L	10	4/9/2020 16:44
SODIUM ADSORPTION RATIO							
			Method: USDA H60 METHOD 2		Prep: USDA Method 20B / 4/9/20		Analyst: STP
Sodium Adsorption Ratio	1.8		0.010	0.010	none	1	4/9/2020
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS)							
			Method: SW846 8270D		Prep: SW3546 / 4/8/20		Analyst: EEW
Acenaphthene	U		0.00095	0.0049	mg/Kg-dry	1	4/8/2020 18:27
Anthracene	U		0.0016	0.0049	mg/Kg-dry	1	4/8/2020 18:27
Benzo(a)anthracene	U		0.0020	0.0049	mg/Kg-dry	1	4/8/2020 18:27
Benzo(a)pyrene	U		0.0013	0.0049	mg/Kg-dry	1	4/8/2020 18:27
Benzo(b)fluoranthene	U		0.0012	0.0049	mg/Kg-dry	1	4/8/2020 18:27
Benzo(k)fluoranthene	U		0.0014	0.0049	mg/Kg-dry	1	4/8/2020 18:27
Chrysene	U		0.0010	0.0049	mg/Kg-dry	1	4/8/2020 18:27
Dibenzo(a,h)anthracene	U		0.0011	0.0049	mg/Kg-dry	1	4/8/2020 18:27
Fluoranthene	U		0.00090	0.0049	mg/Kg-dry	1	4/8/2020 18:27

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

ALS Group, USA

Date: 10-Apr-20

Client: Entrada Consulting Group
Project: Carney 41Y34 Spill
Sample ID: CAR41Y34-SS4
Collection Date: 4/1/2020 10:15 AM

Work Order: 20040274
Lab ID: 20040274-04
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	U		0.0016	0.0049	mg/Kg-dry	1	4/8/2020 18:27
Indeno(1,2,3-cd)pyrene	U		0.0018	0.0049	mg/Kg-dry	1	4/8/2020 18:27
Naphthalene	U		0.0021	0.0049	mg/Kg-dry	1	4/8/2020 18:27
Pyrene	U		0.00081	0.0049	mg/Kg-dry	1	4/8/2020 18:27
<i>Surr: 2-Fluorobiphenyl</i>	101			20-140	%REC	1	4/8/2020 18:27
<i>Surr: 4-Terphenyl-d14</i>	92.0			22-172	%REC	1	4/8/2020 18:27
<i>Surr: Nitrobenzene-d5</i>	77.7			28-140	%REC	1	4/8/2020 18:27
VOLATILE ORGANIC COMPOUNDS			Method: SW8260C		Prep: SW5035 / 4/6/20		Analyst: SJB
Benzene	U		0.0067	0.039	mg/Kg-dry	1	4/6/2020 22:22
Ethylbenzene	U		0.0082	0.039	mg/Kg-dry	1	4/6/2020 22:22
m,p-Xylene	U		0.052	0.078	mg/Kg-dry	1	4/6/2020 22:22
o-Xylene	U		0.015	0.039	mg/Kg-dry	1	4/6/2020 22:22
Toluene	U		0.011	0.039	mg/Kg-dry	1	4/6/2020 22:22
Xylenes, Total	U		0.052	0.12	mg/Kg-dry	1	4/6/2020 22:22
<i>Surr: 1,2-Dichloroethane-d4</i>	96.3			70-130	%REC	1	4/6/2020 22:22
<i>Surr: 4-Bromofluorobenzene</i>	100			70-130	%REC	1	4/6/2020 22:22
<i>Surr: Dibromofluoromethane</i>	102			70-130	%REC	1	4/6/2020 22:22
<i>Surr: Toluene-d8</i>	97.1			70-130	%REC	1	4/6/2020 22:22
ELECTRICAL CONDUCTIVITY (SAR)			Method: USDA H60 METHOD 2		Prep: USDA Method 20B / 4/9/20		Analyst: QTN
Electrical Conductivity @ Saturation	0.51		0.011	0.10	mmhos/cm @25°	20	4/9/2020 16:05
CHROMIUM, TRIVALENT			Method: CALCULATION				Analyst: JZB
Chromium, Trivalent	9.6		0.99	1.2	mg/Kg-dry	1	4/9/2020 13:03
CHROMIUM, HEXAVALENT			Method: SW7196A		Prep: SW3060A / 4/7/20		Analyst: RZM
Chromium, Hexavalent	U		0.97	1.1	mg/Kg-dry	1	4/9/2020 12:03
MOISTURE			Method: SW3550C				Analyst: KTP
Moisture	15		0.10	0.10	% of sample	1	4/6/2020 11:25
PH			Method: SW9045D		Prep: EXTRACT / 4/3/20		Analyst: DVD
pH	7.82		0.10	0.100	s.u.	1	4/4/2020 08:59
Temperature	19.8		0.10	0.100	°C	1	4/4/2020 08:59

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

ALS Group, USA

Date: 10-Apr-20

Client: Entrada Consulting Group
 Project: Carney 41Y34 Spill
 Sample ID: CAR41Y34-BG1
 Collection Date: 4/1/2020 10:30 AM

Work Order: 20040274
 Lab ID: 20040274-05
 Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA							
			Method: SW7471B		Prep: SW7471 / 4/10/20		Analyst: MAC
Mercury	0.018	J	0.014	0.021	mg/Kg-dry	1	4/10/2020 11:25
METALS BY ICP-MS							
			Method: SW6020B		Prep: SW3050B / 4/8/20		Analyst: STP
Arsenic	6.9		0.050	0.41	mg/Kg-dry	1	4/8/2020 22:15
Barium	160		3.8	4.1	mg/Kg-dry	10	4/9/2020 16:28
Boron	11		1.6	1.7	mg/Kg-dry	1	4/8/2020 22:15
Cadmium	0.20		0.025	0.17	mg/Kg-dry	1	4/8/2020 22:15
Chromium	11		0.18	0.41	mg/Kg-dry	1	4/8/2020 22:15
Copper	13		0.41	0.41	mg/Kg-dry	1	4/8/2020 22:15
Lead	19		0.20	0.41	mg/Kg-dry	1	4/8/2020 22:15
Nickel	17		0.21	0.41	mg/Kg-dry	1	4/8/2020 22:15
Selenium	1.3		0.38	0.41	mg/Kg-dry	1	4/8/2020 22:15
Silver	0.071	J	0.055	0.41	mg/Kg-dry	1	4/8/2020 22:15
Zinc	69		0.81	0.83	mg/Kg-dry	1	4/8/2020 22:15
SOLUBLE CATIONS FOR SAR							
			Method: SW6020B		Prep: USDA Method 20B / 4/9/20		Analyst: STP
Calcium	43		2.5	5.0	mg/L	10	4/9/2020 16:45
Magnesium	6.6		0.50	2.0	mg/L	10	4/9/2020 16:45
Sodium	11		0.45	2.0	mg/L	10	4/9/2020 16:45
SODIUM ADSORPTION RATIO							
			Method: USDA H60 METHOD 2		Prep: USDA Method 20B / 4/9/20		Analyst: STP
Sodium Adsorption Ratio	0.39		0.010	0.010	none	1	4/9/2020
ELECTRICAL CONDUCTIVITY (SAR)							
			Method: USDA H60 METHOD 2		Prep: USDA Method 20B / 4/9/20		Analyst: QTN
Electrical Conductivity @ Saturation	0.30		0.011	0.10	mmhos/cm @25°	20	4/9/2020 16:05
CHROMIUM, TRIVALENT							
			Method: CALCULATION				Analyst: JZB
Chromium, Trivalent	11		0.99	1.2	mg/Kg-dry	1	4/9/2020 13:03
CHROMIUM, HEXAVALENT							
			Method: SW7196A		Prep: SW3060A / 4/7/20		Analyst: RZM
Chromium, Hexavalent	U		0.98	1.2	mg/Kg-dry	1	4/9/2020 12:03
MOISTURE							
			Method: SW3550C				Analyst: KTP
Moisture	14		0.10	0.10	% of sample	1	4/6/2020 11:25
PH							
			Method: SW9045D		Prep: EXTRACT / 4/4/20		Analyst: DVD
pH	8.43		0.10	0.100	s.u.	1	4/5/2020 11:30
Temperature	20.0		0.10	0.100	°C	1	4/5/2020 11:30

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

Client: Entrada Consulting Group
Work Order: 20040274
Project: Carney 41Y34 Spill

QC BATCH REPORT

Batch ID: **154303** Instrument ID **GC8** Method: **SW8015D**

MBLK		Sample ID: DBLKS1-154303-154303				Units: mg/Kg		Analysis Date: 4/7/2020 08:16 PM		
Client ID:		Run ID: GC8_200407A		SeqNo: 6345509		Prep Date: 4/7/2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	6.252	10								J
<i>Surr: 4-Terphenyl-d14</i>	2.772	0	3.33	0	83.2	33-111	0			

LCS		Sample ID: DLCSS1-154303-154303				Units: mg/Kg		Analysis Date: 4/7/2020 08:55 PM		
Client ID:		Run ID: GC8_200407A		SeqNo: 6345510		Prep Date: 4/7/2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	343	10	333	0	103	80-121	0			
<i>Surr: 4-Terphenyl-d14</i>	2.514	0	3.33	0	75.5	33-111	0			

MS		Sample ID: 20040272-01A MS				Units: mg/Kg		Analysis Date: 4/7/2020 09:34 PM		
Client ID:		Run ID: GC8_200407A		SeqNo: 6345511		Prep Date: 4/7/2020		DF: 10		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	518.1	99	328.7	147.8	113	80-121	0			
<i>Surr: 4-Terphenyl-d14</i>	1.671	0	3.287	0	50.8	33-111	0			

MSD		Sample ID: 20040272-01A MSD				Units: mg/Kg		Analysis Date: 4/7/2020 10:13 PM		
Client ID:		Run ID: GC8_200407A		SeqNo: 6345512		Prep Date: 4/7/2020		DF: 10		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	503.8	99	330.5	147.8	108	80-121	518.1	2.79	30	
<i>Surr: 4-Terphenyl-d14</i>	1.858	0	3.305	0	56.2	33-111	1.671	10.6	30	

The following samples were analyzed in this batch:

20040274-01A	20040274-02A	20040274-03A
20040274-04A		

Client: Entrada Consulting Group
 Work Order: 20040274
 Project: Carney 41Y34 Spill

QC BATCH REPORT

Batch ID: **154269** Instrument ID **GC10** Method: **SW8015D**

MBLK		Sample ID: MBLK-154269-154269				Units: µg/Kg-dry		Analysis Date: 4/8/2020 10:30 AM		
Client ID:		Run ID: GC10_200408A				SeqNo: 6348110		Prep Date: 4/6/2020		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								
<i>Surr: Toluene-d8</i>	5608	0	5000	0	112	71-123	0			

LCS		Sample ID: LCS-154269-154269				Units: µg/Kg-dry		Analysis Date: 4/8/2020 06:37 PM		
Client ID:		Run ID: GC10_200408A				SeqNo: 6348119		Prep Date: 4/6/2020		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	265500	5,000	250000	0	106	71-123	0			
<i>Surr: Toluene-d8</i>	5088	0	5000	0	102	71-123	0			

MS		Sample ID: 20040275-01A MS				Units: µg/Kg-dry		Analysis Date: 4/8/2020 01:12 PM		
Client ID:		Run ID: GC10_200408A				SeqNo: 6348117		Prep Date: 4/6/2020		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	601200	9,400	471600	0	127	71-123	0			S
<i>Surr: Toluene-d8</i>	10570	0	9432	0	112	71-123	0			

MSD		Sample ID: 20040275-01A MSD				Units: µg/Kg-dry		Analysis Date: 4/8/2020 01:35 PM		
Client ID:		Run ID: GC10_200408A				SeqNo: 6348118		Prep Date: 4/6/2020		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	582100	9,900	495500	0	117	71-123	601200	3.24	30	
<i>Surr: Toluene-d8</i>	10540	0	9911	0	106	71-123	10570	0.244	30	

The following samples were analyzed in this batch:

20040274-01A	20040274-02A	20040274-03A
20040274-04A		

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

Client: Entrada Consulting Group
 Work Order: 20040274
 Project: Carney 41Y34 Spill

QC BATCH REPORT

Batch ID: **154360** Instrument ID **HG4** Method: **SW7471B**

MBLK	Sample ID: MBLK-154360-154360		Units: mg/Kg		Analysis Date: 4/9/2020 07:24 AM					
Client ID:	Run ID: HG4_200409A		SeqNo: 6346610		Prep Date: 4/8/2020 DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury U 0.017

LCS	Sample ID: LCS-154360-154360		Units: mg/Kg		Analysis Date: 4/9/2020 07:26 AM					
Client ID:	Run ID: HG4_200409A		SeqNo: 6346611		Prep Date: 4/8/2020 DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1948 0.020 0.1635 0 119 80-120 0

MS	Sample ID: 20040274-03AMS		Units: mg/Kg		Analysis Date: 4/9/2020 12:04 PM					
Client ID: CAR41Y34-SS3	Run ID: HG4_200409A		SeqNo: 6347270		Prep Date: 4/8/2020 DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1547 0.016 0.1309 0.01374 108 75-125 0

MSD	Sample ID: 20040274-03AMSD		Units: mg/Kg		Analysis Date: 4/9/2020 12:06 PM					
Client ID: CAR41Y34-SS3	Run ID: HG4_200409A		SeqNo: 6347271		Prep Date: 4/8/2020 DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1656 0.016 0.1297 0.01374 117 75-125 0.1547 6.83 35

The following samples were analyzed in this batch:

20040274-01A	20040274-02A	20040274-03A
--------------	--------------	--------------

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

Client: Entrada Consulting Group
 Work Order: 20040274
 Project: Carney 41Y34 Spill

QC BATCH REPORT

Batch ID: **154361** Instrument ID **HG4** Method: **SW7471B**

MBLK	Sample ID: MBLK-154361-154361				Units: mg/Kg		Analysis Date: 4/9/2020 12:08 PM			
Client ID:	Run ID: HG4_200409A			SeqNo: 6347272		Prep Date: 4/8/2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury U 0.019

LCS	Sample ID: LCS-154361-154361				Units: mg/Kg		Analysis Date: 4/9/2020 12:11 PM			
Client ID:	Run ID: HG4_200409A			SeqNo: 6347273		Prep Date: 4/8/2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1847 0.017 0.1403 0 132 80-120 0 S

MS	Sample ID: 20040295-01AMS				Units: mg/Kg		Analysis Date: 4/9/2020 09:30 AM			
Client ID:	Run ID: HG4_200409A			SeqNo: 6346672		Prep Date: 4/8/2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.2072 0.018 0.1539 0.0819 81.4 75-125 0

MSD	Sample ID: 20040295-01AMSD				Units: mg/Kg		Analysis Date: 4/9/2020 09:32 AM			
Client ID:	Run ID: HG4_200409A			SeqNo: 6346674		Prep Date: 4/8/2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.2022 0.019 0.1542 0.0819 78 75-125 0.2072 2.48 35

The following samples were analyzed in this batch:

20040274-04A	20040274-05A
--------------	--------------

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

Client: Entrada Consulting Group
 Work Order: 20040274
 Project: Carney 41Y34 Spill

QC BATCH REPORT

Batch ID: **154446** Instrument ID **HG4** Method: **SW7471B**

MBLK		Sample ID: MBLK-154446-154446				Units: mg/Kg		Analysis Date: 4/10/2020 11:14 AM		
Client ID:		Run ID: HG4_200410A				SeqNo: 6349553		Prep Date: 4/10/2020		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury U 0.020

LCS		Sample ID: LCS-154446-154446				Units: mg/Kg		Analysis Date: 4/10/2020 11:16 AM		
Client ID:		Run ID: HG4_200410A				SeqNo: 6349554		Prep Date: 4/10/2020		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1958 0.020 0.1665 0 118 80-120 0

MS		Sample ID: 20040274-04AMS				Units: mg/Kg		Analysis Date: 4/10/2020 11:21 AM		
Client ID: CAR41Y34-SS4		Run ID: HG4_200410A				SeqNo: 6349556		Prep Date: 4/10/2020		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1584 0.016 0.137 0.02017 101 75-125 0

MSD		Sample ID: 20040274-04AMSD				Units: mg/Kg		Analysis Date: 4/10/2020 11:23 AM		
Client ID: CAR41Y34-SS4		Run ID: HG4_200410A				SeqNo: 6349557		Prep Date: 4/10/2020		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1556 0.016 0.1357 0.02017 99.8 75-125 0.1584 1.82 35

The following samples were analyzed in this batch:

20040274-04A	20040274-05A
--------------	--------------

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

Client: Entrada Consulting Group
 Work Order: 20040274
 Project: Carney 41Y34 Spill

QC BATCH REPORT

Batch ID: **154368** Instrument ID **ICPMS3** Method: **SW6020B**

MBLK		Sample ID: MBLK-154368-154368				Units: mg/Kg		Analysis Date: 4/8/2020 08:29 PM		
Client ID:		Run ID: ICPMS3_200408B			SeqNo: 6346206		Prep Date: 4/8/2020		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	U	0.20								
Barium	U	0.20								
Cadmium	U	0.078								
Chromium	U	0.20								
Copper	U	0.20								
Lead	U	0.20								
Nickel	U	0.20								
Selenium	U	0.20								
Silver	U	0.20								
Zinc	U	0.39								

LCS		Sample ID: LCS-154368-154368				Units: mg/Kg		Analysis Date: 4/8/2020 08:31 PM		
Client ID:		Run ID: ICPMS3_200408B			SeqNo: 6346207		Prep Date: 4/8/2020		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	5.041	0.24	4.789	0	105	80-120	0			
Barium	5.198	0.24	4.789	0	109	80-120	0			
Cadmium	5.095	0.096	4.789	0	106	80-120	0			
Chromium	5.125	0.24	4.789	0	107	80-120	0			
Copper	5.162	0.24	4.789	0	108	80-120	0			
Lead	5.105	0.24	4.789	0	107	80-120	0			
Nickel	4.984	0.24	4.789	0	104	80-120	0			
Selenium	5.103	0.24	4.789	0	107	80-120	0			
Silver	5.194	0.24	4.789	0	108	80-120	0			
Zinc	5.146	0.48	4.789	0	107	80-120	0			

MS		Sample ID: 20040273-03AMS				Units: mg/Kg		Analysis Date: 4/8/2020 09:50 PM		
Client ID:		Run ID: ICPMS3_200408B			SeqNo: 6346251		Prep Date: 4/8/2020		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	9.542	0.32	6.353	4.53	78.9	75-125	0			
Cadmium	5.091	0.13	6.353	0.1689	77.5	75-125	0			
Chromium	13.89	0.32	6.353	6.957	109	75-125	0			
Copper	10.7	0.32	6.353	6.118	72.2	75-125	0			S
Lead	14.49	0.32	6.353	8.211	98.9	75-125	0			
Nickel	12.43	0.32	6.353	7.193	82.4	75-125	0			
Selenium	5.579	0.32	6.353	0.3903	81.7	75-125	0			
Silver	4.734	0.32	6.353	0.03602	73.9	75-125	0			S
Zinc	32.76	0.64	6.353	26.62	96.6	75-125	0			O

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

Client: Entrada Consulting Group
 Work Order: 20040274
 Project: Carney 41Y34 Spill

QC BATCH REPORT

Batch ID: **154368** Instrument ID **ICPMS3** Method: **SW6020B**

MS		Sample ID: 20040273-03AMS				Units: mg/Kg		Analysis Date: 4/9/2020 03:58 PM		
Client ID:		Run ID: ICPMS3_200409B		SeqNo: 6349279		Prep Date: 4/8/2020		DF: 10		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Barium	165.6	3.2	6.353	149.3	256	75-125	0			SO

MSD		Sample ID: 20040273-03AMSD				Units: mg/Kg		Analysis Date: 4/8/2020 09:52 PM		
Client ID:		Run ID: ICPMS3_200408B		SeqNo: 6346252		Prep Date: 4/8/2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	10.26	0.32	6.345	4.53	90.3	75-125	9.542	7.24	20	
Cadmium	5.459	0.13	6.345	0.1689	83.4	75-125	5.091	6.98	20	
Chromium	15.88	0.32	6.345	6.957	141	75-125	13.89	13.4	20	S
Copper	12.55	0.32	6.345	6.118	101	75-125	10.7	15.9	20	
Lead	17.1	0.32	6.345	8.211	140	75-125	14.49	16.5	20	S
Nickel	14.5	0.32	6.345	7.193	115	75-125	12.43	15.4	20	
Selenium	6.168	0.32	6.345	0.3903	91.1	75-125	5.579	10	20	
Silver	5.162	0.32	6.345	0.03602	80.8	75-125	4.734	8.65	20	
Zinc	40.28	0.63	6.345	26.62	215	75-125	32.76	20.6	20	SRO

MSD		Sample ID: 20040273-03AMSD				Units: mg/Kg		Analysis Date: 4/9/2020 04:00 PM		
Client ID:		Run ID: ICPMS3_200409B		SeqNo: 6349280		Prep Date: 4/8/2020		DF: 10		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Barium	146.5	3.2	6.345	149.3	-44.7	75-125	165.6	12.3	20	SO

The following samples were analyzed in this batch:

20040274-01A

Client: Entrada Consulting Group
 Work Order: 20040274
 Project: Carney 41Y34 Spill

QC BATCH REPORT

Batch ID: **154372** Instrument ID **ICPMS3** Method: **SW6020B**

MBLK		Sample ID: MBLK-154372-154372				Units: mg/Kg		Analysis Date: 4/8/2020 10:01 PM		
Client ID:		Run ID: ICPMS3_200408B				SeqNo: 6346257		Prep Date: 4/8/2020		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	U	0.22								
Boron	U	0.89								
Cadmium	U	0.089								
Chromium	U	0.22								
Copper	U	0.22								
Lead	U	0.22								
Nickel	U	0.22								
Selenium	U	0.22								
Silver	U	0.22								
Zinc	U	0.45								

MBLK		Sample ID: MBLK-154372-154372				Units: mg/Kg		Analysis Date: 4/9/2020 04:18 PM		
Client ID:		Run ID: ICPMS3_200409B				SeqNo: 6349291		Prep Date: 4/8/2020		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Barium	U	0.22								

LCS		Sample ID: LCS-154372-154372				Units: mg/Kg		Analysis Date: 4/8/2020 10:03 PM		
Client ID:		Run ID: ICPMS3_200408B				SeqNo: 6346258		Prep Date: 4/8/2020		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.296	0.25	4.926	0	87.2	80-120	0			
Barium	4.354	0.25	4.926	0	88.4	80-120	0			
Boron	21.96	0.99	24.63	0	89.2	80-120	0			
Cadmium	4.415	0.099	4.926	0	89.6	80-120	0			
Chromium	4.615	0.25	4.926	0	93.7	80-120	0			
Copper	4.524	0.25	4.926	0	91.8	80-120	0			
Lead	4.383	0.25	4.926	0	89	80-120	0			
Nickel	4.337	0.25	4.926	0	88	80-120	0			
Selenium	4.42	0.25	4.926	0	89.7	80-120	0			
Silver	4.31	0.25	4.926	0	87.5	80-120	0			
Zinc	5.864	0.49	4.926	0	119	80-120	0			

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

Client: Entrada Consulting Group
 Work Order: 20040274
 Project: Carney 41Y34 Spill

QC BATCH REPORT

Batch ID: 154372 Instrument ID ICPMS3 Method: SW6020B

MS		Sample ID: 20040295-01AMS				Units: mg/Kg		Analysis Date: 4/8/2020 10:46 PM		
Client ID:		Run ID: ICPMS3_200408B			SeqNo: 6346281		Prep Date: 4/8/2020		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	8.768	0.32	6.452	1.918	106	75-125	0			
Barium	127	0.32	6.452	120.5	101	75-125	0			EO
Boron	43.9	1.3	32.26	11.08	102	75-125	0			
Cadmium	6.557	0.13	6.452	0.2231	98.2	75-125	0			
Chromium	27.48	0.32	6.452	21.37	94.7	75-125	0			
Lead	5.735	0.32	6.452	2.252	54	75-125	0			S
Nickel	11.39	0.32	6.452	5.161	96.6	75-125	0			
Selenium	9.173	0.32	6.452	1.825	114	75-125	0			
Silver	6.892	0.32	6.452	0.9044	92.8	75-125	0			

MS		Sample ID: 20040295-01AMS				Units: mg/Kg		Analysis Date: 4/9/2020 04:38 PM		
Client ID:		Run ID: ICPMS3_200409B			SeqNo: 6349303		Prep Date: 4/8/2020		DF: 10	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Zinc	168.7	6.5	6.452	161.6	110	75-125	0			O

MS		Sample ID: 20040295-01AMS				Units: mg/Kg		Analysis Date: 4/10/2020 02:48 PM		
Client ID:		Run ID: ICPMS3_200410B			SeqNo: 6350317		Prep Date: 4/8/2020		DF: 100	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Copper	138.9	32	6.452	119.5	302	75-125	0			SO

MSD		Sample ID: 20040295-01AMSD				Units: mg/Kg		Analysis Date: 4/8/2020 10:47 PM		
Client ID:		Run ID: ICPMS3_200408B			SeqNo: 6346282		Prep Date: 4/8/2020		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	8.96	0.32	6.418	1.918	110	75-125	8.768	2.16	20	
Barium	127.5	0.32	6.418	120.5	109	75-125	127	0.387	20	EO
Boron	44.95	1.3	32.09	11.08	106	75-125	43.9	2.38	20	
Cadmium	6.83	0.13	6.418	0.2231	103	75-125	6.557	4.09	20	
Chromium	27.7	0.32	6.418	21.37	98.6	75-125	27.48	0.795	20	
Lead	5.839	0.32	6.418	2.252	55.9	75-125	5.735	1.8	20	S
Nickel	11.51	0.32	6.418	5.161	98.9	75-125	11.39	0.977	20	
Selenium	9.853	0.32	6.418	1.825	125	75-125	9.173	7.15	20	S
Silver	7.077	0.32	6.418	0.9044	96.2	75-125	6.892	2.65	20	

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

Client: Entrada Consulting Group
 Work Order: 20040274
 Project: Carney 41Y34 Spill

QC BATCH REPORT

Batch ID: **154372** Instrument ID **ICPMS3** Method: **SW6020B**

MSD		Sample ID: 20040295-01AMSD				Units: mg/Kg		Analysis Date: 4/9/2020 04:40 PM			
Client ID:		Run ID: ICPMS3_200409B				SeqNo: 6349304		Prep Date: 4/8/2020		DF: 10	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Zinc	170.9	6.4	6.418	161.6	145	75-125	168.7	1.29	20	SO	

MSD		Sample ID: 20040295-01AMSD				Units: mg/Kg		Analysis Date: 4/10/2020 02:50 PM			
Client ID:		Run ID: ICPMS3_200410B				SeqNo: 6350318		Prep Date: 4/8/2020		DF: 100	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Copper	133.1	32	6.418	119.5	212	75-125	138.9	4.31	20	SO	

The following samples were analyzed in this batch:

20040274-02A	20040274-03A	20040274-04A
20040274-05A		

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

Client: Entrada Consulting Group
 Work Order: 20040274
 Project: Carney 41Y34 Spill

QC BATCH REPORT

Batch ID: **154416** Instrument ID **ICPMS4** Method: **SW6020B**

DUP		Sample ID: 20040273-01BDUP				Units: mg/L		Analysis Date: 4/9/2020 04:33 PM		
Client ID:		Run ID: ICPMS4_200409A				SeqNo: 6348311		Prep Date: 4/9/2020		DF: 10
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	37.93	5.0	0	0	0	0-0	48.39	24.2		
Magnesium	4.639	2.0	0	0	0	0-0	5.318	13.7		
Sodium	6.057	2.0	0	0	0	0-0	7.039	15		

The following samples were analyzed in this batch:

20040274-01B	20040274-02B	20040274-03B
20040274-04B	20040274-05B	

Batch ID: **154416** Instrument ID **SAR** Method: **USDA H60 Metho**

DUP		Sample ID: 20040273-01BDUP				Units: none		Analysis Date: 4/9/2020		
Client ID:		Run ID: SAR_200409A				SeqNo: 6348389		Prep Date: 4/9/2020		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	0.247	0.010	0	0	0		0.2564	3.71	50	

The following samples were analyzed in this batch:

20040274-01B	20040274-02B	20040274-03B
20040274-04B	20040274-05B	

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

Client: Entrada Consulting Group
 Work Order: 20040274
 Project: Carney 41Y34 Spill

QC BATCH REPORT

Batch ID: **154266** Instrument ID **SVMS6** Method: **SW846 8270D**

MBLK		Sample ID: SBLKS1-154266-154266				Units: µg/Kg		Analysis Date: 4/7/2020 12:51 PM		
Client ID:		Run ID: SVMS6_200407A		SeqNo: 6343661		Prep Date: 4/6/2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	U	4.2								
Anthracene	U	4.2								
Benzo(a)anthracene	U	4.2								
Benzo(a)pyrene	U	4.2								
Benzo(b)fluoranthene	U	4.2								
Benzo(k)fluoranthene	U	4.2								
Chrysene	U	4.2								
Dibenzo(a,h)anthracene	U	4.2								
Fluoranthene	U	4.2								
Fluorene	U	4.2								
Indeno(1,2,3-cd)pyrene	U	4.2								
Naphthalene	U	4.2								
Pyrene	U	4.2								
<i>Surr: 2-Fluorobiphenyl</i>	1367	0	3333	0	41	20-140	0			
<i>Surr: 4-Terphenyl-d14</i>	3049	0	3333	0	91.5	22-172	0			
<i>Surr: Nitrobenzene-d5</i>	2394	0	3333	0	71.8	28-140	0			

LCS		Sample ID: SLCSS1-154266-154266				Units: µg/Kg		Analysis Date: 4/7/2020 01:06 PM		
Client ID:		Run ID: SVMS6_200407A		SeqNo: 6343662		Prep Date: 4/6/2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	891.3	4.2	1333	0	66.9	40-140	0			
Anthracene	1031	4.2	1333	0	77.3	40-140	0			
Benzo(a)anthracene	995.4	4.2	1333	0	74.7	40-140	0			
Benzo(a)pyrene	955.4	4.2	1333	0	71.7	40-140	0			
Benzo(b)fluoranthene	940.1	4.2	1333	0	70.5	40-140	0			
Benzo(k)fluoranthene	934	4.2	1333	0	70.1	40-140	0			
Chrysene	997.3	4.2	1333	0	74.8	40-140	0			
Dibenzo(a,h)anthracene	976.1	4.2	1333	0	73.2	40-140	0			
Fluoranthene	1160	4.2	1333	0	87.1	40-140	0			
Fluorene	948.2	4.2	1333	0	71.1	40-140	0			
Indeno(1,2,3-cd)pyrene	968.6	4.2	1333	0	72.7	40-140	0			
Naphthalene	900.2	4.2	1333	0	67.5	40-140	0			
Pyrene	935.5	4.2	1333	0	70.2	40-140	0			
<i>Surr: 2-Fluorobiphenyl</i>	1209	0	3333	0	36.3	20-140	0			
<i>Surr: 4-Terphenyl-d14</i>	3011	0	3333	0	90.3	22-172	0			
<i>Surr: Nitrobenzene-d5</i>	1687	0	3333	0	50.6	28-140	0			

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

Client: Entrada Consulting Group
 Work Order: 20040274
 Project: Carney 41Y34 Spill

QC BATCH REPORT

Batch ID: 154266 Instrument ID SVMS6 Method: SW846 8270D

MS				Sample ID: 20040202-01B MS			Units: µg/Kg		Analysis Date: 4/7/2020 01:22 PM		
Client ID:				Run ID: SVMS6_200407A			SeqNo: 6343663		Prep Date: 4/6/2020		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	904.7	4.1	1314	0	68.9	40-140	0				
Anthracene	1024	4.1	1314	0	77.9	40-140	0				
Benzo(a)anthracene	953.7	4.1	1314	0	72.6	40-140	0				
Benzo(a)pyrene	933.1	4.1	1314	0	71	40-140	0				
Benzo(b)fluoranthene	943.8	4.1	1314	0	71.8	40-140	0				
Benzo(k)fluoranthene	912.1	4.1	1314	0	69.4	40-140	0				
Chrysene	958.4	4.1	1314	0	72.9	40-140	0				
Dibenzo(a,h)anthracene	914.2	4.1	1314	0	69.6	40-140	0				
Fluoranthene	1140	4.1	1314	0	86.8	40-140	0				
Fluorene	961.4	4.1	1314	0	73.2	40-140	0				
Indeno(1,2,3-cd)pyrene	937.7	4.1	1314	0	71.4	40-140	0				
Naphthalene	927.1	4.1	1314	0	70.6	40-140	0				
Pyrene	896.8	4.1	1314	0	68.3	40-140	0				
Surr: 2-Fluorobiphenyl	2637	0	3285	0	80.3	20-140	0				
Surr: 4-Terphenyl-d14	2823	0	3285	0	85.9	22-172	0				
Surr: Nitrobenzene-d5	2051	0	3285	0	62.4	28-140	0				

MSD				Sample ID: 20040202-01B MSD			Units: µg/Kg		Analysis Date: 4/7/2020 01:37 PM		
Client ID:				Run ID: SVMS6_200407A			SeqNo: 6343664		Prep Date: 4/6/2020		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	904.8	4.0	1276	0	70.9	40-140	904.7	0.0118	30		
Anthracene	1017	4.0	1276	0	79.7	40-140	1024	0.661	30		
Benzo(a)anthracene	955.5	4.0	1276	0	74.9	40-140	953.7	0.19	30		
Benzo(a)pyrene	935.3	4.0	1276	0	73.3	40-140	933.1	0.242	30		
Benzo(b)fluoranthene	954	4.0	1276	0	74.8	40-140	943.8	1.07	30		
Benzo(k)fluoranthene	911.2	4.0	1276	0	71.4	40-140	912.1	0.0992	30		
Chrysene	959.8	4.0	1276	0	75.2	40-140	958.4	0.148	30		
Dibenzo(a,h)anthracene	911.8	4.0	1276	0	71.4	40-140	914.2	0.263	30		
Fluoranthene	1132	4.0	1276	0	88.7	40-140	1140	0.775	30		
Fluorene	953	4.0	1276	0	74.7	40-140	961.4	0.879	30		
Indeno(1,2,3-cd)pyrene	906.4	4.0	1276	0	71	40-140	937.7	3.4	30		
Naphthalene	928.4	4.0	1276	0	72.7	40-140	927.1	0.138	30		
Pyrene	912.3	4.0	1276	0	71.5	40-140	896.8	1.71	30		
Surr: 2-Fluorobiphenyl	3014	0	3191	0	94.4	20-140	2637	13.4	0		
Surr: 4-Terphenyl-d14	2886	0	3191	0	90.4	22-172	2823	2.21	0		
Surr: Nitrobenzene-d5	2139	0	3191	0	67	28-140	2051	4.18	0		

The following samples were analyzed in this batch:

20040274-01A	20040274-02A
--------------	--------------

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

Client: Entrada Consulting Group
 Work Order: 20040274
 Project: Carney 41Y34 Spill

QC BATCH REPORT

Batch ID: **154358** Instrument ID **SVMS6** Method: **SW846 8270D**

MBLK		Sample ID: SBLKS1-154358-154358				Units: µg/Kg		Analysis Date: 4/8/2020 04:54 PM		
Client ID:		Run ID: SVMS6_200408A		SeqNo: 6346939		Prep Date: 4/8/2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	U	4.2								
Anthracene	U	4.2								
Benzo(a)anthracene	U	4.2								
Benzo(a)pyrene	U	4.2								
Benzo(b)fluoranthene	U	4.2								
Benzo(k)fluoranthene	U	4.2								
Chrysene	U	4.2								
Dibenzo(a,h)anthracene	U	4.2								
Fluoranthene	U	4.2								
Fluorene	U	4.2								
Indeno(1,2,3-cd)pyrene	U	4.2								
Naphthalene	U	4.2								
Pyrene	U	4.2								
<i>Surr: 2-Fluorobiphenyl</i>	3617	0	3333	0	109	20-140	0			
<i>Surr: 4-Terphenyl-d14</i>	3153	0	3333	0	94.6	22-172	0			
<i>Surr: Nitrobenzene-d5</i>	2887	0	3333	0	86.6	28-140	0			

LCS		Sample ID: SLCSS1-154358-154358				Units: µg/Kg		Analysis Date: 4/8/2020 05:09 PM		
Client ID:		Run ID: SVMS6_200408A		SeqNo: 6346940		Prep Date: 4/8/2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1017	4.2	1333	0	76.3	40-140	0			
Anthracene	1093	4.2	1333	0	82	40-140	0			
Benzo(a)anthracene	1003	4.2	1333	0	75.3	40-140	0			
Benzo(a)pyrene	963.4	4.2	1333	0	72.3	40-140	0			
Benzo(b)fluoranthene	943.5	4.2	1333	0	70.8	40-140	0			
Benzo(k)fluoranthene	975.1	4.2	1333	0	73.2	40-140	0			
Chrysene	1016	4.2	1333	0	76.2	40-140	0			
Dibenzo(a,h)anthracene	974.3	4.2	1333	0	73.1	40-140	0			
Fluoranthene	1173	4.2	1333	0	88	40-140	0			
Fluorene	1070	4.2	1333	0	80.3	40-140	0			
Indeno(1,2,3-cd)pyrene	994.7	4.2	1333	0	74.6	40-140	0			
Naphthalene	1089	4.2	1333	0	81.7	40-140	0			
Pyrene	1022	4.2	1333	0	76.7	40-140	0			
<i>Surr: 2-Fluorobiphenyl</i>	3538	0	3333	0	106	20-140	0			
<i>Surr: 4-Terphenyl-d14</i>	3134	0	3333	0	94	22-172	0			
<i>Surr: Nitrobenzene-d5</i>	2521	0	3333	0	75.6	28-140	0			

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

Client: Entrada Consulting Group
 Work Order: 20040274
 Project: Carney 41Y34 Spill

QC BATCH REPORT

Batch ID: 154358 Instrument ID SVMS6 Method: SW846 8270D

MS				Sample ID: 20040467-01A MS			Units: µg/Kg		Analysis Date: 4/8/2020 05:25 PM		
Client ID:		Run ID: SVMS6_200408A		SeqNo: 6346941		Prep Date: 4/8/2020		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	927.1	4.1	1306	0	71	40-140	0				
Anthracene	1012	4.1	1306	0	77.5	40-140	0				
Benzo(a)anthracene	941	4.1	1306	0	72.1	40-140	0				
Benzo(a)pyrene	925.3	4.1	1306	0	70.9	40-140	0				
Benzo(b)fluoranthene	926.5	4.1	1306	0	71	40-140	0				
Benzo(k)fluoranthene	887.4	4.1	1306	0	68	40-140	0				
Chrysene	956.5	4.1	1306	0	73.3	40-140	0				
Dibenzo(a,h)anthracene	953.9	4.1	1306	0	73.1	40-140	0				
Fluoranthene	1074	4.1	1306	0	82.2	40-140	0				
Fluorene	971.2	4.1	1306	0	74.4	40-140	0				
Indeno(1,2,3-cd)pyrene	955.3	4.1	1306	0	73.2	40-140	0				
Naphthalene	1007	4.1	1306	0	77.1	40-140	0				
Pyrene	1007	4.1	1306	0	77.1	40-140	0				
Surr: 2-Fluorobiphenyl	3304	0	3265	0	101	20-140	0				
Surr: 4-Terphenyl-d14	3099	0	3265	0	94.9	22-172	0				
Surr: Nitrobenzene-d5	2431	0	3265	0	74.5	28-140	0				

MSD				Sample ID: 20040467-01A MSD			Units: µg/Kg		Analysis Date: 4/8/2020 05:40 PM		
Client ID:		Run ID: SVMS6_200408A		SeqNo: 6346942		Prep Date: 4/8/2020		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	809.7	4.0	1266	0	64	40-140	927.1	13.5	30		
Anthracene	885.3	4.0	1266	0	69.9	40-140	1012	13.3	30		
Benzo(a)anthracene	818.1	4.0	1266	0	64.6	40-140	941	14	30		
Benzo(a)pyrene	806.5	4.0	1266	0	63.7	40-140	925.3	13.7	30		
Benzo(b)fluoranthene	807.1	4.0	1266	0	63.8	40-140	926.5	13.8	30		
Benzo(k)fluoranthene	764	4.0	1266	0	60.3	40-140	887.4	14.9	30		
Chrysene	828.6	4.0	1266	0	65.5	40-140	956.5	14.3	30		
Dibenzo(a,h)anthracene	827.1	4.0	1266	0	65.3	40-140	953.9	14.2	30		
Fluoranthene	940.9	4.0	1266	0	74.3	40-140	1074	13.2	30		
Fluorene	852.7	4.0	1266	0	67.4	40-140	971.2	13	30		
Indeno(1,2,3-cd)pyrene	834.5	4.0	1266	0	65.9	40-140	955.3	13.5	30		
Naphthalene	891.1	4.0	1266	0	70.4	40-140	1007	12.2	30		
Pyrene	841.1	4.0	1266	0	66.4	40-140	1007	18	30		
Surr: 2-Fluorobiphenyl	2928	0	3165	0	92.5	20-140	3304	12.1	0		
Surr: 4-Terphenyl-d14	2654	0	3165	0	83.8	22-172	3099	15.5	0		
Surr: Nitrobenzene-d5	2207	0	3165	0	69.7	28-140	2431	9.63	0		

The following samples were analyzed in this batch:

20040274-03A	20040274-04A
--------------	--------------

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

Client: Entrada Consulting Group
 Work Order: 20040274
 Project: Carney 41Y34 Spill

QC BATCH REPORT

Batch ID: **154268** Instrument ID **VMS10** Method: **SW8260C**

MBLK		Sample ID: MBLK-154268-154268				Units: µg/Kg-dry		Analysis Date: 4/6/2020 05:56 PM		
Client ID:		Run ID: VMS10_200406A		SeqNo: 6342816		Prep Date: 4/6/2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	U	30	0	0	0	0-0	0			
Ethylbenzene	U	30	0	0	0	0-0	0			
m,p-Xylene	U	60	0	0	0	0-0	0			
o-Xylene	U	30	0	0	0	0-0	0			
Toluene	U	30	0	0	0	0-0	0			
Xylenes, Total	U	90	0	0	0	0-0	0			
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>951</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>95.1</i>	<i>70-130</i>	<i>0</i>			
<i>Surr: 4-Bromofluorobenzene</i>	<i>971.5</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>97.2</i>	<i>70-130</i>	<i>0</i>			
<i>Surr: Dibromofluoromethane</i>	<i>985.5</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>98.6</i>	<i>70-130</i>	<i>0</i>			
<i>Surr: Toluene-d8</i>	<i>940.5</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>94</i>	<i>70-130</i>	<i>0</i>			

LCS		Sample ID: LCS-154268-154268				Units: µg/Kg-dry		Analysis Date: 4/6/2020 04:55 PM		
Client ID:		Run ID: VMS10_200406A		SeqNo: 6342815		Prep Date: 4/6/2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1062	30	1000	0	106	75-125	0			
Ethylbenzene	968	30	1000	0	96.8	75-125	0			
m,p-Xylene	1990	60	2000	0	99.5	80-125	0			
o-Xylene	996	30	1000	0	99.6	75-125	0			
Toluene	979.5	30	1000	0	98	70-125	0			
Xylenes, Total	2986	90	3000	0	99.5	75-125	0			
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>932.5</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>93.2</i>	<i>70-130</i>	<i>0</i>			
<i>Surr: 4-Bromofluorobenzene</i>	<i>1030</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>103</i>	<i>70-130</i>	<i>0</i>			
<i>Surr: Dibromofluoromethane</i>	<i>1014</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>101</i>	<i>70-130</i>	<i>0</i>			
<i>Surr: Toluene-d8</i>	<i>1004</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>100</i>	<i>70-130</i>	<i>0</i>			

MS		Sample ID: 20040275-01A MS				Units: µg/Kg-dry		Analysis Date: 4/7/2020 12:25 PM		
Client ID:		Run ID: VMS10_200406A		SeqNo: 6342827		Prep Date: 4/6/2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1902	57	1886	0	101	75-125	0			
Ethylbenzene	1709	57	1886	0	90.6	75-125	0			
m,p-Xylene	3460	110	3773	26.24	91	80-125	0			
o-Xylene	1750	57	1886	10.31	92.2	75-125	0			
Toluene	1700	57	1886	31.86	88.4	70-125	0			
Xylenes, Total	5209	170	5659	0	92	75-125	0			
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>1800</i>	<i>0</i>	<i>1886</i>	<i>0</i>	<i>95.4</i>	<i>70-130</i>	<i>0</i>			
<i>Surr: 4-Bromofluorobenzene</i>	<i>2037</i>	<i>0</i>	<i>1886</i>	<i>0</i>	<i>108</i>	<i>70-130</i>	<i>0</i>			
<i>Surr: Dibromofluoromethane</i>	<i>1884</i>	<i>0</i>	<i>1886</i>	<i>0</i>	<i>99.9</i>	<i>70-130</i>	<i>0</i>			
<i>Surr: Toluene-d8</i>	<i>1817</i>	<i>0</i>	<i>1886</i>	<i>0</i>	<i>96.3</i>	<i>70-130</i>	<i>0</i>			

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

Client: Entrada Consulting Group
 Work Order: 20040274
 Project: Carney 41Y34 Spill

QC BATCH REPORT

Batch ID: **154268** Instrument ID **VMS10** Method: **SW8260C**

MSD		Sample ID: 20040275-01A MSD				Units: µg/Kg-dry		Analysis Date: 4/7/2020 12:45 PM		
Client ID:		Run ID: VMS10_200406A		SeqNo: 6342829		Prep Date: 4/6/2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1954	59	1982	0	98.6	75-125	1902	2.7	30	
Ethylbenzene	1726	59	1982	0	87.1	75-125	1709	1.01	30	
m,p-Xylene	3489	120	3964	26.24	87.3	80-125	3460	0.834	30	
o-Xylene	1801	59	1982	10.31	90.3	75-125	1750	2.88	30	
Toluene	1695	59	1982	31.86	83.9	70-125	1700	0.288	30	
Xylenes, Total	5289	180	5946	0	88.9	75-125	5209	1.53	30	
<i>Surr: 1,2-Dichloroethane-d4</i>	1849	0	1982	0	93.3	70-130	1800	2.73	30	
<i>Surr: 4-Bromofluorobenzene</i>	2045	0	1982	0	103	70-130	2037	0.358	30	
<i>Surr: Dibromofluoromethane</i>	1980	0	1982	0	99.9	70-130	1884	4.95	30	
<i>Surr: Toluene-d8</i>	1906	0	1982	0	96.2	70-130	1817	4.8	30	

The following samples were analyzed in this batch:

20040274-01A	20040274-02A	20040274-03A
20040274-04A		

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

Client: Entrada Consulting Group
Work Order: 20040274
Project: Carney 41Y34 Spill

QC BATCH REPORT

Batch ID: **154226** Instrument ID **WETCHEM** Method: **SW9045D**

DUP		Sample ID: 20040243-01C DUP				Units: s.u.		Analysis Date: 4/4/2020 08:59 AM		
Client ID:		Run ID: WETCHEM_200404E				SeqNo: 6340300		Prep Date: 4/3/2020		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	8.29	0.10	0	0	0	0-0	8.29	0	20	
Temperature	20.2	0.10	0	0	0		20	0.995		

DUP		Sample ID: 20040272-03A DUP				Units: s.u.		Analysis Date: 4/4/2020 08:59 AM		
Client ID:		Run ID: WETCHEM_200404E				SeqNo: 6340311		Prep Date: 4/3/2020		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	7.5	0.10	0	0	0	0-0	7.68	2.37	20	
Temperature	19.8	0.10	0	0	0		19.7	0.506		

The following samples were analyzed in this batch:

20040274-01A	20040274-02A	20040274-03A
20040274-04A		

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

Client: Entrada Consulting Group
 Work Order: 20040274
 Project: Carney 41Y34 Spill

QC BATCH REPORT

Batch ID: **154229** Instrument ID **WETCHEM** Method: **SW9045D**

LCS	Sample ID: LCS-154229-154229				Units: s.u.		Analysis Date: 4/5/2020 11:30 AM			
Client ID:	Run ID: WETCHEM_200405B			SeqNo: 6340320		Prep Date: 4/4/2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH 3.97 0.10 4 0 99.2 90-110 0

DUP	Sample ID: 20040260-01A DUP				Units: s.u.		Analysis Date: 4/5/2020 11:30 AM			
Client ID:	Run ID: WETCHEM_200405B			SeqNo: 6340322		Prep Date: 4/4/2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH 7.36 0.10 0 0 0 0-0 7.69 4.39 20

Temperature 20 0.10 0 0 0 19.8 1.01

DUP	Sample ID: 20040274-05A DUP				Units: s.u.		Analysis Date: 4/5/2020 11:30 AM			
Client ID: CAR41Y34-BG1	Run ID: WETCHEM_200405B			SeqNo: 6340325		Prep Date: 4/4/2020		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH 8.43 0.10 0 0 0 0-0 8.43 0 20

Temperature 19.9 0.10 0 0 0 20 0.501

The following samples were analyzed in this batch:

20040274-05A

Client: Entrada Consulting Group
 Work Order: 20040274
 Project: Carney 41Y34 Spill

QC BATCH REPORT

Batch ID: **154378** Instrument ID **WETCHEM** Method: **SW7196A**

MBLK	Sample ID: MBLK-154378-154378		Units: mg/Kg		Analysis Date: 4/9/2020 12:03 PM					
Client ID:	Run ID: WETCHEM_200409G		SeqNo: 6347082		Prep Date: 4/7/2020 DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent U 0.98

LCS	Sample ID: LCS-154378-154378		Units: mg/Kg		Analysis Date: 4/9/2020 12:03 PM					
Client ID:	Run ID: WETCHEM_200409G		SeqNo: 6347083		Prep Date: 4/7/2020 DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 5.465 0.99 4.95 0 110 80-120 0

MS	Sample ID: 20040273-01A MS		Units: mg/Kg		Analysis Date: 4/9/2020 12:03 PM					
Client ID:	Run ID: WETCHEM_200409G		SeqNo: 6347085		Prep Date: 4/7/2020 DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 4.039 0.98 4.902 0.7941 66.2 75-125 0 S

MS	Sample ID: 20040273-01A MSI		Units: mg/Kg		Analysis Date: 4/9/2020 12:03 PM					
Client ID:	Run ID: WETCHEM_200409G		SeqNo: 6347087		Prep Date: 4/7/2020 DF: 100					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 2852 98 2997 0.7941 95.1 75-125 0

MSD	Sample ID: 20040273-01A MSD		Units: mg/Kg		Analysis Date: 4/9/2020 12:03 PM					
Client ID:	Run ID: WETCHEM_200409G		SeqNo: 6347086		Prep Date: 4/7/2020 DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 3.784 0.98 4.902 0.7941 61 75-125 4.039 6.52 20 S

The following samples were analyzed in this batch:

20040274-01A	20040274-02A	20040274-03A
20040274-04A	20040274-05A	

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

Client: Entrada Consulting Group
Work Order: 20040274
Project: Carney 41Y34 Spill

QC BATCH REPORT

Batch ID: **154416** Instrument ID **WETCHEM** Method: **USDA H60 Metho**

DUP	Sample ID: 20040273-01B DUP		Units: mmhos/cm @25°		Analysis Date: 4/9/2020 04:05 PM					
Client ID:	Run ID: WETCHEM_200409W		SeqNo: 6348165		Prep Date: 4/9/2020 DF: 20					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	0.4046	0.10	0	0	0		0.3994	1.29	50	

The following samples were analyzed in this batch:

20040274-01B	20040274-02B	20040274-03B
20040274-04B	20040274-05B	

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

Client: Entrada Consulting Group
 Work Order: 20040274
 Project: Carney 41Y34 Spill

QC BATCH REPORT

Batch ID: **R286106** Instrument ID **MOIST** Method: **SW3550C**

MBLK		Sample ID: WBLKS-R286106				Units: % of sample			Analysis Date: 4/6/2020 11:25 AM		
Client ID:		Run ID: MOIST_200406B				SeqNo: 6342474			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-R286106				Units: % of sample			Analysis Date: 4/6/2020 11:25 AM		
Client ID:		Run ID: MOIST_200406B				SeqNo: 6342473			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: 20040273-01A DUP				Units: % of sample			Analysis Date: 4/6/2020 11:25 AM		
Client ID:		Run ID: MOIST_200406B				SeqNo: 6342460			Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Moisture 6.2 0.10 0 0 0 0-0 5.95 4.12 10

DUP		Sample ID: 20040273-02A DUP				Units: % of sample			Analysis Date: 4/6/2020 11:25 AM		
Client ID:		Run ID: MOIST_200406B				SeqNo: 6342462			Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Moisture 8.24 0.10 0 0 0 0-0 8.29 0.605 10

The following samples were analyzed in this batch:

20040274-01A	20040274-02A	20040274-03A
20040274-04A	20040274-05A	

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



Environmental

Chain of Custody Form

Page 1 of 1

COC ID: 123456

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

Customer Information, Project Information, Parameter/Method Request for Analysis. Includes fields for Purchase Order, Work Order, Company Name, Address, City/State/Zip, Phone, Fax, e-Mail Address, Project Name, Project Number, Bill To Company, Invoice Attn, and analysis parameters A through J.

Table with columns: No., Sample Description, Date, Time, Matrix, Pres., # Bottles, and analysis parameters A through J. Contains handwritten data for samples 1-6.

Shipment Method: FedEx. Required Turnaround Time: 5 Wk Days. Results Due Date: [blank].

Relinquished by: Jason McLarty. Date: 4/2/20. Time: 1000. Received by: [signature]. Notes: Chevron Pricing Applies - Per Bruce Schlatter.

Relinquished by: [signature]. Date: 4-2-20. Time: 1015. Received by (Laboratory): [signature]. QC Package: Level II: Standard QC, Level III: Std QC + Raw Data, Level IV: SW846 CLP-Like.

Logged by (Laboratory): [signature]. Date: 4/3/20. Time: 1015. Checked by (Laboratory): [signature]. Cooler Temp: 3.8°C. 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. Copyright 2011 by ALS Group

