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09 September 2021

Jake Harter  
Cottonwood Consulting  
PO Box 1653  
Durango, CO 81302  
RE: COGCC Table 915-1

Enclosed are the results of analyses for samples received by the laboratory on 08/20/21 15:15. The data to follow was performed, in whole or in part, by a subcontract laboratory with an additional report attached.

If you need any further assistance, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads 'Debbie Zufelt'.

Debbie Zufelt  
Reports Manager

All accredited analytes contained in this report are denoted by an asterisk (\*). For a complete list of accredited analytes please do not hesitate to contact us via any of the contact information contained in this report. All of our certifications can be viewed at <http://greenanalytical.com/certifications/>

Green Analytical Laboratories is NELAP accredited through the Texas Commission on Environmental Quality. Accreditation applies to drinking water and non-potable water matrices for trace metals and a variety of inorganic parameters. Green Analytical Laboratories is also accredited through the Colorado Department of Public Health and Environment and EPA region 8 for trace metals, Cyanide, Fluoride, Nitrate, and Nitrite in drinking water. TNI Certificate Number: T104704514-21-12

Our affiliate laboratory, Cardinal Laboratories, is also NELAP accredited through the Texas Commission on Environmental Quality for a variety of organic constituents in drinking water, non-potable water and solid matrices. Cardinal is also accredited for regulated VOCs, TTHM, and HAA-5 in drinking water through the Colorado Department of Public Health and Environment and EPA region 8. TNI Certificate Number: T104704398-21-14



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Cottonwood Consulting  
PO Box 1653  
Durango CO, 81302

Project: COGCC Table 915-1  
Project Name / Number: Entrada (OWP) #1-28  
Project Manager: Jake Harter

**Reported:**  
09/09/21 11:16

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
SS01	2108215-01	Solid	08/19/21 15:10	08/20/21 15:15	
SS02	2108215-02	Solid	08/19/21 15:20	08/20/21 15:15	

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Debbie Zufelt, Reports Manager

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PO Box 1653  
Durango CO, 81302

Project: COGCC Table 915-1  
Project Name / Number: Entrada (OWP) #1-28  
Project Manager: Jake Harter

Reported:  
09/09/21 11:16

**SS01****2108215-01 (Soil)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**Saturated Paste Extraction**

Calcium	22.5	0.100	0.058	mg/L	1	09/03/21 13:19	EPA200.7		AES
Conductivity	700			umho/cm @ 25.0°C	1	09/02/21 12:30	ASA#9 10-3.3		VJW
Magnesium	5.55	0.100	0.065	mg/L	1	09/03/21 13:19	EPA200.7		AES
pH	7.77			pH Units	1	09/02/21 08:25	ASA#9 10-3.2		VJW
SAR	6.22			No Unit	1	09/03/21 13:19	Calculation		AES
Sodium	127	1.00	0.079	mg/L	1	09/03/21 13:19	EPA200.7		AES

**Total Metals by ICP**

Barium	16200	500	39.0	mg/kg dry	10000	09/02/21 15:01	6010B		AES
Cadmium	<5.00	5.00	1.10	mg/kg dry	100	09/01/21 16:40	6010B		AES
Chromium	29.2	5.00	0.400	mg/kg dry	100	09/01/21 16:40	6010B		AES
Copper	59.4	5.00	2.39	mg/kg dry	100	09/01/21 16:40	6010B		AES
Lead	336	10.0	0.906	mg/kg dry	100	09/01/21 16:40	6010B		AES
Nickel	19.1	5.00	0.874	mg/kg dry	100	09/01/21 16:40	6010B		AES
Selenium	<20.0	20.0	4.70	mg/kg dry	100	09/01/21 16:39	6010B		AES
Silver	<1.00	1.00	0.688	mg/kg dry	100	09/01/21 16:39	6010B		AES
Zinc	698	10.0	1.71	mg/kg dry	100	09/01/21 16:40	6010B		AES

**Total Metals by ICPMS**

Arsenic	4.62	1.00	0.0950	mg/kg dry	1000	09/02/21 14:57	6020A		AES
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**Hot Water Extractable**

Boron	<1.20	1.20	0.568	mg/L	4	08/31/21 13:48	EPA200.7		AES
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**Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240****Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	08/29/21 14:38	8015B		CK
DRO >C10-C28*	102	10.0	4.26	mg/kg	1	08/29/21 14:38	8015B		CK
EXT DRO >C28-C36	37.5	10.0	4.26	mg/kg	1	08/29/21 14:38	8015B		CK

Surrogate: 1-Chlorooctane	73.6 %	44.3-133	08/29/21 14:38	8015B	CK
Surrogate: 1-Chlorooctadecane	76.8 %	38.9-142	08/29/21 14:38	8015B	CK

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Debbie Zufelt, Reports Manager

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Project: COGCC Table 915-1  
Project Name / Number: Entrada (OWP) #1-28  
Project Manager: Jake Harter

Reported:  
09/09/21 11:16

### SS01

### 2108215-01 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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### Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

#### VOLATILES BY GC/MS

Benzene*	<0.0250	0.0250	0.00885	mg/kg	50	08/26/21 05:06	8260B		MS
Toluene*	<0.0250	0.0250	0.00670	mg/kg	50	08/26/21 05:06	8260B		MS
Ethylbenzene*	<0.0250	0.0250	0.00405	mg/kg	50	08/26/21 05:06	8260B		MS
m+p - Xylene*	<0.0500	0.0500	0.0186	mg/kg	50	08/26/21 05:06	8260B		MS
o-Xylene*	<0.0250	0.0250	0.00700	mg/kg	50	08/26/21 05:06	8260B		MS
Total Xylenes*	<0.0750	0.0750	0.0250	mg/kg	50	08/26/21 05:06	8260B		MS
1,3,5-Trimethylbenzene	<0.0250	0.0250	0.00450	mg/kg	50	08/26/21 05:06	8260B		MS
1,2,4-Trimethylbenzene	<0.0250	0.0250	0.00650	mg/kg	50	08/26/21 05:06	8260B		MS
Naphthalene*	<0.0250	0.0250	0.00500	mg/kg	50	08/26/21 05:06	8260B		MS
Surrogate: Dibromofluoromethane			101 %	84.6-114		08/26/21 05:06	8260B		MS
Surrogate: Toluene-d8			102 %	90.4-109		08/26/21 05:06	8260B		MS
Surrogate: 4-Bromofluorobenzene			102 %	82.5-117		08/26/21 05:06	8260B		MS

#### Polynuclear Aromatic Compounds by GC/MS

Naphthalene*	<0.015	0.040	0.015	mg/kg	40	09/07/21 16:14	8270C		MS
2-Methylnaphthalene*	<0.023	0.040	0.023	mg/kg	40	09/07/21 16:14	8270C		MS
1-Methylnaphthalene	<0.016	0.040	0.016	mg/kg	40	09/07/21 16:14	8270C		MS
Acenaphthylene*	<0.020	0.040	0.020	mg/kg	40	09/07/21 16:14	8270C		MS
Acenaphthene*	<0.024	0.040	0.024	mg/kg	40	09/07/21 16:14	8270C		MS
Fluorene*	<0.014	0.040	0.014	mg/kg	40	09/07/21 16:14	8270C		MS
Phenanthrene*	<0.021	0.040	0.021	mg/kg	40	09/07/21 16:14	8270C		MS
Anthracene*	<0.017	0.040	0.017	mg/kg	40	09/07/21 16:14	8270C		MS
Carbazole*	<0.019	0.040	0.019	mg/kg	40	09/07/21 16:14	8270C		MS
Fluoranthene*	<0.019	0.040	0.019	mg/kg	40	09/07/21 16:14	8270C		MS
Pyrene*	0.056	0.040	0.013	mg/kg	40	09/07/21 16:14	8270C		MS
Benzo[a]anthracene*	<0.023	0.040	0.023	mg/kg	40	09/07/21 16:14	8270C		MS
Chrysene*	0.073	0.040	0.017	mg/kg	40	09/07/21 16:14	8270C		MS
Benzo[b]fluoranthene*	<0.019	0.040	0.019	mg/kg	40	09/07/21 16:14	8270C		MS
Benzo[k]fluoranthene*	<0.016	0.040	0.016	mg/kg	40	09/07/21 16:14	8270C		MS
Benzo[a]pyrene*	<0.018	0.040	0.018	mg/kg	40	09/07/21 16:14	8270C		MS
Indeno[1,2,3-cd]pyrene*	<0.017	0.040	0.017	mg/kg	40	09/07/21 16:14	8270C		MS

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Debbie Zufelt

Debbie Zufelt, Reports Manager

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Project: COGCC Table 915-1  
Project Name / Number: Entrada (OWP) #1-28  
Project Manager: Jake Harter

Reported:  
09/09/21 11:16

## SS01

### 2108215-01 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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### Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

#### Polynuclear Aromatic Compounds by GC/MS

Dibenz[a,h]anthracene*	<0.019	0.040	0.019	mg/kg	40	09/07/21 16:14	8270C		MS
Benzo[g,h,i]perylene*	<0.019	0.040	0.019	mg/kg	40	09/07/21 16:14	8270C		MS
Surrogate: Nitrobenzene-d5			48.8 %	39.6-121		09/07/21 16:14	8270C		MS
Surrogate: 2-Fluorobiphenyl			50.8 %	39.8-134		09/07/21 16:14	8270C		MS
Surrogate: Terphenyl-d14			54.9 %	33.3-136		09/07/21 16:14	8270C		MS

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Durango CO, 81302

Project: COGCC Table 915-1  
Project Name / Number: Entrada (OWP) #1-28  
Project Manager: Jake Harter

Reported:  
09/09/21 11:16

**SS02****2108215-02 (Soil)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**Saturated Paste Extraction**

Calcium	56.4	0.100	0.058	mg/L	1	09/03/21 13:21	EPA200.7		AES
Conductivity	336			umho/cm @ 25.0°C	1	09/02/21 12:30	ASA#9 10-3.3		VJW
Magnesium	5.75	0.100	0.065	mg/L	1	09/03/21 13:21	EPA200.7		AES
pH	7.51			pH Units	1	09/02/21 08:25	ASA#9 10-3.2		VJW
SAR	0.22			No Unit	1	09/03/21 13:21	Calculation		AES
Sodium	6.58	1.00	0.079	mg/L	1	09/03/21 13:21	EPA200.7		AES

**Total Metals by ICP**

Barium	2230	50.0	3.90	mg/kg dry	1000	09/02/21 15:03	6010B		AES
Cadmium	<5.00	5.00	1.10	mg/kg dry	100	09/01/21 16:44	6010B		AES
Chromium	17.7	5.00	0.400	mg/kg dry	100	09/01/21 16:44	6010B		AES
Copper	20.2	5.00	2.39	mg/kg dry	100	09/01/21 16:44	6010B		AES
Lead	10.6	10.0	0.906	mg/kg dry	100	09/01/21 16:44	6010B		AES
Nickel	13.3	5.00	0.874	mg/kg dry	100	09/01/21 16:44	6010B		AES
Selenium	<20.0	20.0	4.70	mg/kg dry	100	09/01/21 16:43	6010B		AES
Silver	<1.00	1.00	0.688	mg/kg dry	100	09/01/21 16:43	6010B		AES
Zinc	50.6	10.0	1.71	mg/kg dry	100	09/01/21 16:44	6010B		AES

**Total Metals by ICPMS**

Arsenic	7.10	1.00	0.0950	mg/kg dry	1000	09/02/21 15:01	6020A		AES
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**Hot Water Extractable**

Boron	<1.20	1.20	0.568	mg/L	4	08/31/21 13:57	EPA200.7		AES
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**Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240****Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	08/29/21 15:06	8015B		CK
DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	08/29/21 15:06	8015B		CK
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	08/29/21 15:06	8015B		CK

Surrogate: 1-Chlorooctane	73.4 %	44.3-133	08/29/21 15:06	8015B	CK
Surrogate: 1-Chlorooctadecane	68.9 %	38.9-142	08/29/21 15:06	8015B	CK

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Debbie Zufelt, Reports Manager

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Project: COGCC Table 915-1  
Project Name / Number: Entrada (OWP) #1-28  
Project Manager: Jake Harter

Reported:  
09/09/21 11:16

## SS02

## 2108215-02 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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## Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

## VOLATILES BY GC/MS

Benzene*	<0.0250	0.0250	0.00885	mg/kg	50	08/26/21 05:26	8260B		MS
Toluene*	<0.0250	0.0250	0.00670	mg/kg	50	08/26/21 05:26	8260B		MS
Ethylbenzene*	<0.0250	0.0250	0.00405	mg/kg	50	08/26/21 05:26	8260B		MS
m+p - Xylene*	<0.0500	0.0500	0.0186	mg/kg	50	08/26/21 05:26	8260B		MS
o-Xylene*	<0.0250	0.0250	0.00700	mg/kg	50	08/26/21 05:26	8260B		MS
Total Xylenes*	<0.0250	0.0250	0.0250	mg/kg	50	08/26/21 05:26	8260B		MS
1,3,5-Trimethylbenzene	<0.0250	0.0250	0.00450	mg/kg	50	08/26/21 05:26	8260B		MS
1,2,4-Trimethylbenzene	<0.0250	0.0250	0.00650	mg/kg	50	08/26/21 05:26	8260B		MS
Naphthalene*	<0.0750	0.0750	0.00500	mg/kg	50	08/26/21 05:26	8260B		MS
Surrogate: Dibromofluoromethane			101 %	84.6-114		08/26/21 05:26	8260B		MS
Surrogate: Toluene-d8			103 %	90.4-109		08/26/21 05:26	8260B		MS
Surrogate: 4-Bromofluorobenzene			96.6 %	82.5-117		08/26/21 05:26	8260B		MS

## Polynuclear Aromatic Compounds by GC/MS

Naphthalene*	<0.015	0.040	0.015	mg/kg	40	09/02/21 18:20	8270C		MS
2-Methylnaphthalene*	<0.023	0.040	0.023	mg/kg	40	09/02/21 18:20	8270C		MS
1-Methylnaphthalene	<0.016	0.040	0.016	mg/kg	40	09/02/21 18:20	8270C		MS
Acenaphthylene*	<0.020	0.040	0.020	mg/kg	40	09/02/21 18:20	8270C		MS
Acenaphthene*	<0.024	0.040	0.024	mg/kg	40	09/02/21 18:20	8270C		MS
Fluorene*	<0.014	0.040	0.014	mg/kg	40	09/02/21 18:20	8270C		MS
Phenanthrene*	<0.021	0.040	0.021	mg/kg	40	09/02/21 18:20	8270C		MS
Anthracene*	<0.017	0.040	0.017	mg/kg	40	09/02/21 18:20	8270C		MS
Carbazole*	<0.019	0.040	0.019	mg/kg	40	09/02/21 18:20	8270C		MS
Fluoranthene*	<0.019	0.040	0.019	mg/kg	40	09/02/21 18:20	8270C		MS
Pyrene*	<0.013	0.040	0.013	mg/kg	40	09/02/21 18:20	8270C		MS
Benzo[a]anthracene*	<0.023	0.040	0.023	mg/kg	40	09/02/21 18:20	8270C		MS
Chrysene*	<0.017	0.040	0.017	mg/kg	40	09/02/21 18:20	8270C		MS
Benzo[b]fluoranthene*	<0.019	0.040	0.019	mg/kg	40	09/02/21 18:20	8270C		MS
Benzo[k]fluoranthene*	<0.016	0.040	0.016	mg/kg	40	09/02/21 18:20	8270C		MS
Benzo[a]pyrene*	<0.018	0.040	0.018	mg/kg	40	09/02/21 18:20	8270C		MS

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Debbie Zufelt, Reports Manager

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Project: COGCC Table 915-1  
Project Name / Number: Entrada (OWP) #1-28  
Project Manager: Jake Harter

Reported:  
09/09/21 11:16

SS02

2108215-02 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Polynuclear Aromatic Compounds by GC/MS

Indeno[1,2,3-cd]pyrene*	<0.017	0.040	0.017	mg/kg	40	09/02/21 18:20	8270C		MS
Dibenz[a,h]anthracene*	<0.019	0.040	0.019	mg/kg	40	09/02/21 18:20	8270C		MS
Benzo[g,h,i]perylene*	<0.019	0.040	0.019	mg/kg	40	09/02/21 18:20	8270C		MS
Surrogate: Nitrobenzene-d5			70.8 %	39.6-121		09/02/21 18:20	8270C		MS
Surrogate: 2-Fluorobiphenyl			65.1 %	39.8-134		09/02/21 18:20	8270C		MS
Surrogate: Terphenyl-d14			77.2 %	33.3-136		09/02/21 18:20	8270C		MS

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Debbie Zufelt, Reports Manager

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Project: COGCC Table 915-1  
Project Name / Number: Entrada (OWP) #1-28  
Project Manager: Jake Harter

Reported:  
09/09/21 11:16

### Saturated Paste Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch B212048 - Paste Extract

##### Blank (B212048-BLK1)

Prepared: 09/01/21 Analyzed: 09/03/21

Calcium	ND	0.100	mg/L
Magnesium	ND	0.100	mg/L
Sodium	ND	1.00	mg/L

##### Duplicate (B212048-DUP2)

Source: 2108211-06 Prepared: 09/01/21 Analyzed: 09/03/21

Calcium	474	0.500	mg/L	439	7.67	20
Magnesium	84.2	0.500	mg/L	77.0	8.93	20
SAR	7.26		No Unit	6.88	5.37	20
Sodium	653	5.00	mg/L	594	9.34	20

##### Reference (B212048-SRM1)

Prepared: 09/01/21 Analyzed: 09/03/21

SAR	7.35	No Unit	7.50	98.0	90-110
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#### Batch B212049 - Paste Extract

##### Duplicate (B212049-DUP2)

Source: 2108211-06 Prepared: 09/01/21 Analyzed: 09/02/21

Conductivity	5070	umho/cm @ 25.0°C	4650	8.64	20
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##### Reference (B212049-SRM1)

Prepared: 09/01/21 Analyzed: 09/02/21

Conductivity	8380	umho/cm @ 25.0°C	6720	125	90-110	BS1
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#### Batch B212050 - Paste Extract

##### Duplicate (B212050-DUP2)

Source: 2108211-06 Prepared: 09/01/21 Analyzed: 09/02/21

pH	7.68	pH Units	7.59	1.18	20
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##### Reference (B212050-SRM1)

Prepared: 09/01/21 Analyzed: 09/02/21

pH	8.68	pH Units	9.14	95.0	95-105
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Cottonwood Consulting  
PO Box 1653  
Durango CO, 81302

Project: COGCC Table 915-1  
Project Name / Number: Entrada (OWP) #1-28  
Project Manager: Jake Harter

Reported:  
09/09/21 11:16

### Total Metals by ICP - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch B211995 - EPA 3050

##### Blank (B211995-BLK1)

Prepared: 08/27/21 Analyzed: 09/01/21

Barium	ND	5.00	mg/kg dry
Cadmium	ND	5.00	mg/kg dry
Chromium	ND	5.00	mg/kg dry
Copper	ND	5.00	mg/kg dry
Lead	ND	10.0	mg/kg dry
Nickel	ND	5.00	mg/kg dry
Selenium	ND	20.0	mg/kg dry
Silver	ND	1.00	mg/kg dry
Zinc	ND	10.0	mg/kg dry

##### LCS (B211995-BS1)

Prepared: 08/27/21 Analyzed: 09/01/21

Barium	185	5.00	mg/kg dry	200	92.3	80-120
Cadmium	171	5.00	mg/kg dry	200	85.3	80-120
Chromium	185	5.00	mg/kg dry	200	92.6	80-120
Copper	391	5.00	mg/kg dry	400	97.7	80-120
Lead	176	10.0	mg/kg dry	200	87.8	80-120
Nickel	177	5.00	mg/kg dry	200	88.5	80-120
Selenium	773	20.0	mg/kg dry	800	96.6	80-120
Silver	9.24	1.00	mg/kg dry	10.0	92.4	80-120
Zinc	163	10.0	mg/kg dry	200	81.6	80-120

##### LCS Dup (B211995-BSD1)

Prepared: 08/27/21 Analyzed: 09/01/21

Barium	180	5.00	mg/kg dry	200	89.9	80-120	2.64	20
Cadmium	166	5.00	mg/kg dry	200	83.2	80-120	2.50	20
Chromium	180	5.00	mg/kg dry	200	90.0	80-120	2.81	20
Copper	383	5.00	mg/kg dry	400	95.8	80-120	1.92	20
Lead	173	10.0	mg/kg dry	200	86.5	80-120	1.50	20
Nickel	174	5.00	mg/kg dry	200	87.1	80-120	1.58	20
Selenium	766	20.0	mg/kg dry	800	95.7	80-120	0.891	20
Silver	9.06	1.00	mg/kg dry	10.0	90.6	80-120	1.96	20
Zinc	163	10.0	mg/kg dry	200	81.5	80-120	0.184	20

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Project: COGCC Table 915-1  
Project Name / Number: Entrada (OWP) #1-28  
Project Manager: Jake Harter

Reported:  
09/09/21 11:16

### Total Metals by ICPMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch B211998 - EPA 3050M

##### Blank (B211998-BLK1)

Prepared: 08/27/21 Analyzed: 09/02/21

Arsenic ND 0.100 mg/kg dry

##### LCS (B211998-BS1)

Prepared: 08/27/21 Analyzed: 09/02/21

Arsenic 4.67 0.100 mg/kg dry 5.00 93.4 80-120

##### LCS Dup (B211998-BSD1)

Prepared: 08/27/21 Analyzed: 09/02/21

Arsenic 4.58 0.100 mg/kg dry 5.00 91.6 80-120 1.92 20

### Hot Water Extractable - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch B212008 - Hot Water Soluble Metals Extract

##### Blank (B212008-BLK1)

Prepared: 08/30/21 Analyzed: 08/31/21

Boron ND 1.20 mg/L

##### Duplicate (B212008-DUP1)

Source: 2108211-04 Prepared: 08/30/21 Analyzed: 08/31/21

Boron ND 1.20 mg/L ND 200

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Project: COGCC Table 915-1  
Project Name / Number: Entrada (OWP) #1-28  
Project Manager: Jake Harter

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### Petroleum Hydrocarbons by GC FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 1082612 - General Prep - Organics

##### Blank (1082612-BLK1)

Prepared: 08/26/21 Analyzed: 08/29/21

Surrogate: 1-Chlorooctadecane	37.3		mg/kg	50.0		74.6	38.9-142			
Surrogate: 1-Chlorooctane	39.5		mg/kg	50.0		79.1	44.3-133			
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
GRO C6-C10	ND	10.0	mg/kg							

##### LCS (1082612-BS1)

Prepared: 08/26/21 Analyzed: 08/29/21

Surrogate: 1-Chlorooctadecane	38.6		mg/kg	50.0		77.3	38.9-142			
Surrogate: 1-Chlorooctane	41.9		mg/kg	50.0		83.8	44.3-133			
DRO >C10-C28	196	10.0	mg/kg	200		98.0	79.3-136			
GRO C6-C10	212	10.0	mg/kg	200		106	83.4-129			
Total TPH C6-C28	408	10.0	mg/kg	400		102	85.3-130			

##### LCS Dup (1082612-BSD1)

Prepared: 08/26/21 Analyzed: 08/29/21

Surrogate: 1-Chlorooctadecane	39.9		mg/kg	50.0		79.8	38.9-142			
Surrogate: 1-Chlorooctane	43.2		mg/kg	50.0		86.4	44.3-133			
DRO >C10-C28	192	10.0	mg/kg	200		96.2	79.3-136	1.82	12.1	
GRO C6-C10	216	10.0	mg/kg	200		108	83.4-129	1.71	12.6	
Total TPH C6-C28	408	10.0	mg/kg	400		102	85.3-130	0.0277	11.6	

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Project: COGCC Table 915-1  
Project Name / Number: Entrada (OWP) #1-28  
Project Manager: Jake Harter

Reported:  
09/09/21 11:16

### VOLATILES BY GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 1082523 - Volatiles

##### Blank (1082523-BLK1)

Prepared & Analyzed: 08/25/21

1,2,4-Trimethylbenzene	ND	0.0250	mg/kg							
1,3,5-Trimethylbenzene	ND	0.0250	mg/kg							
Surrogate: 4-Bromofluorobenzene	1.08		mg/kg	1.25		86.6	82.5-117			
Benzene	ND	0.0250	mg/kg							
Surrogate: Dibromofluoromethane	1.36		mg/kg	1.25		109	84.6-114			
Ethylbenzene	ND	0.0250	mg/kg							
m+p - Xylene	ND	0.0500	mg/kg							
Naphthalene	ND	0.0250	mg/kg							
o-Xylene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	mg/kg							
Surrogate: Toluene-d8	1.29		mg/kg	1.25		103	90.4-109			
Total Xylenes	ND	0.0250	mg/kg							

##### LCS (1082523-BS1)

Prepared & Analyzed: 08/25/21

1,2,4-Trimethylbenzene	0.456	0.0250	mg/kg	0.500		91.2	62.4-140			
1,3,5-Trimethylbenzene	0.457	0.0250	mg/kg	0.500		91.4	64.4-138			
Surrogate: 4-Bromofluorobenzene	1.20		mg/kg	1.25		96.2	82.5-117			
Benzene	0.495	0.0250	mg/kg	0.500		99.1	73-130			
Surrogate: Dibromofluoromethane	1.32		mg/kg	1.25		106	84.6-114			
Ethylbenzene	0.485	0.0250	mg/kg	0.500		97.0	75.4-127			
m+p - Xylene	0.948	0.0500	mg/kg	1.00		94.8	71.8-133			
Naphthalene	0.300	0.0250	mg/kg	0.500		60.0	28.7-158			
o-Xylene	0.422	0.0250	mg/kg	0.500		84.5	78.6-125			
Toluene	0.484	0.0250	mg/kg	0.500		96.8	79-122			
Surrogate: Toluene-d8	1.25		mg/kg	1.25		100	90.4-109			
Total Xylenes	1.37	0.0250	mg/kg	1.50		91.4	74.6-130			

##### LCS Dup (1082523-BSD1)

Prepared & Analyzed: 08/25/21

1,2,4-Trimethylbenzene	0.475	0.0250	mg/kg	0.500		95.0	62.4-140	4.09	38.2	
1,3,5-Trimethylbenzene	0.481	0.0250	mg/kg	0.500		96.2	64.4-138	5.17	39.1	
Surrogate: 4-Bromofluorobenzene	1.20		mg/kg	1.25		95.7	82.5-117			
Benzene	0.501	0.0250	mg/kg	0.500		100	73-130	1.13	17.1	
Surrogate: Dibromofluoromethane	1.33		mg/kg	1.25		106	84.6-114			
Ethylbenzene	0.489	0.0250	mg/kg	0.500		97.8	75.4-127	0.801	16.5	
m+p - Xylene	0.982	0.0500	mg/kg	1.00		98.2	71.8-133	3.46	19.1	
Naphthalene	0.304	0.0250	mg/kg	0.500		60.8	28.7-158	1.36	64	
o-Xylene	0.440	0.0250	mg/kg	0.500		87.9	78.6-125	3.98	13.2	
Toluene	0.508	0.0250	mg/kg	0.500		102	79-122	4.97	18.3	

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Project: COGCC Table 915-1  
Project Name / Number: Entrada (OWP) #1-28  
Project Manager: Jake Harter

Reported:  
09/09/21 11:16

**VOLATILES BY GC/MS - Quality Control**  
**(Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1082523 - Volatiles (Continued)**

**LCS Dup (1082523-BSD1) (Continued)**

Prepared & Analyzed: 08/25/21

Surrogate: Toluene-d8	1.28		mg/kg	1.25		103	90.4-109			
Total Xylenes	1.42	0.0250	mg/kg	1.50		94.8	74.6-130	3.62	16.5	

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Project: COGCC Table 915-1  
Project Name / Number: Entrada (OWP) #1-28  
Project Manager: Jake Harter

Reported:  
09/09/21 11:16

### Polynuclear Aromatic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 1082524 - SW846-3510

#### Blank (1082524-BLK1)

Prepared: 08/25/21 Analyzed: 09/02/21

1-Methylnaphthalene	ND	0.040	mg/kg							
Surrogate: 2-Fluorobiphenyl	1.90		mg/kg	2.00		95.2	39.8-134			
2-Methylnaphthalene	ND	0.040	mg/kg							
Acenaphthene	ND	0.040	mg/kg							
Acenaphthylene	ND	0.040	mg/kg							
Anthracene	ND	0.040	mg/kg							
Benzo[a]anthracene	ND	0.040	mg/kg							
Benzo[a]pyrene	ND	0.040	mg/kg							
Benzo[b]fluoranthene	ND	0.040	mg/kg							
Benzo[g,h,i]perylene	ND	0.040	mg/kg							
Benzo[k]fluoranthene	ND	0.040	mg/kg							
Carbazole	ND	0.040	mg/kg							
Chrysene	ND	0.040	mg/kg							
Dibenz[a,h]anthracene	ND	0.040	mg/kg							
Fluoranthene	ND	0.040	mg/kg							
Fluorene	ND	0.040	mg/kg							
Indeno[1,2,3-cd]pyrene	ND	0.040	mg/kg							
Naphthalene	ND	0.040	mg/kg							
Surrogate: Nitrobenzene-d5	1.75		mg/kg	2.00		87.7	39.6-121			
Phenanthrene	ND	0.040	mg/kg							
Pyrene	ND	0.040	mg/kg							
Surrogate: Terphenyl-d14	1.98		mg/kg	2.00		98.8	33.3-136			

#### LCS (1082524-BS1)

Prepared: 08/25/21 Analyzed: 09/02/21

1-Methylnaphthalene	0.360	0.040	mg/kg	0.400		90.0	57.6-108			
Surrogate: 2-Fluorobiphenyl	1.41		mg/kg	2.00		70.6	39.8-134			
2-Methylnaphthalene	0.346	0.040	mg/kg	0.400		86.5	59-106			
Acenaphthene	0.340	0.040	mg/kg	0.400		84.9	60.9-105			
Acenaphthylene	0.345	0.040	mg/kg	0.400		86.2	57.4-107			
Anthracene	0.330	0.040	mg/kg	0.400		82.6	60.8-105			
Benzo[a]anthracene	0.335	0.040	mg/kg	0.400		83.7	56.1-121			
Benzo[a]pyrene	0.294	0.040	mg/kg	0.400		73.4	56.7-115			
Benzo[b]fluoranthene	0.337	0.040	mg/kg	0.400		84.2	45.4-128			
Benzo[g,h,i]perylene	0.308	0.040	mg/kg	0.400		77.0	56.5-107			
Benzo[k]fluoranthene	0.333	0.040	mg/kg	0.400		83.3	49.6-119			
Carbazole	0.345	0.040	mg/kg	0.400		86.1	59.7-107			
Chrysene	0.319	0.040	mg/kg	0.400		79.8	12.2-190			
Dibenz[a,h]anthracene	0.287	0.040	mg/kg	0.400		71.7	59.1-111			
Fluoranthene	0.328	0.040	mg/kg	0.400		82.1	60.6-111			

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Project: COGCC Table 915-1  
Project Name / Number: Entrada (OWP) #1-28  
Project Manager: Jake Harter

Reported:  
09/09/21 11:16

**Polynuclear Aromatic Compounds by GC/MS - Quality Control**  
**(Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1082524 - SW846-3510 (Continued)**

**LCS (1082524-BS1) (Continued)**

Prepared: 08/25/21 Analyzed: 09/02/21

Fluorene	0.345	0.040	mg/kg	0.400		86.3	59.3-108			
Indeno[1,2,3-cd]pyrene	0.305	0.040	mg/kg	0.400		76.2	53.4-116			
Naphthalene	0.348	0.040	mg/kg	0.400		87.0	56.5-106			
Surrogate: Nitrobenzene-d5	1.62		mg/kg	2.00		81.1	39.6-121			
Phenanthrene	0.333	0.040	mg/kg	0.400		83.2	59.9-107			
Pyrene	0.331	0.040	mg/kg	0.400		82.8	51.5-122			
Surrogate: Terphenyl-d14	1.50		mg/kg	2.00		75.1	33.3-136			

**LCS Dup (1082524-BSD1)**

Prepared: 08/25/21 Analyzed: 09/02/21

1-Methylnaphthalene	0.342	0.040	mg/kg	0.400		85.5	57.6-108	5.15	6.22	
Surrogate: 2-Fluorobiphenyl	1.43		mg/kg	2.00		71.6	39.8-134			
2-Methylnaphthalene	0.357	0.040	mg/kg	0.400		89.2	59-106	3.11	6.23	
Acenaphthene	0.357	0.040	mg/kg	0.400		89.3	60.9-105	4.99	8.18	
Acenaphthylene	0.342	0.040	mg/kg	0.400		85.6	57.4-107	0.658	5	
Anthracene	0.341	0.040	mg/kg	0.400		85.3	60.8-105	3.25	3.68	
Benzo[a]anthracene	0.332	0.040	mg/kg	0.400		83.0	56.1-121	0.759	9.01	
Benzo[a]pyrene	0.297	0.040	mg/kg	0.400		74.2	56.7-115	1.06	4.92	
Benzo[b]fluoranthene	0.351	0.040	mg/kg	0.400		87.8	45.4-128	4.21	7.63	
Benzo[g,h,i]perylene	0.288	0.040	mg/kg	0.400		72.0	56.5-107	6.75	12.5	
Benzo[k]fluoranthene	0.347	0.040	mg/kg	0.400		86.8	49.6-119	4.05	10.6	
Carbazole	0.323	0.040	mg/kg	0.400		80.7	59.7-107	6.52	8.65	
Chrysene	0.320	0.040	mg/kg	0.400		80.0	12.2-190	0.253	21.8	
Dibenz[a,h]anthracene	0.281	0.040	mg/kg	0.400		70.2	59.1-111	2.17	11.6	
Fluoranthene	0.324	0.040	mg/kg	0.400		81.0	60.6-111	1.42	7.54	
Fluorene	0.332	0.040	mg/kg	0.400		83.0	59.3-108	3.94	5.49	
Indeno[1,2,3-cd]pyrene	0.303	0.040	mg/kg	0.400		75.8	53.4-116	0.477	22.3	
Naphthalene	0.355	0.040	mg/kg	0.400		88.6	56.5-106	1.89	4.56	
Surrogate: Nitrobenzene-d5	1.62		mg/kg	2.00		81.2	39.6-121			
Phenanthrene	0.337	0.040	mg/kg	0.400		84.2	59.9-107	1.11	5.21	
Pyrene	0.334	0.040	mg/kg	0.400		83.4	51.5-122	0.815	10.6	
Surrogate: Terphenyl-d14	1.54		mg/kg	2.00		77.2	33.3-136			

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Project: COGCC Table 915-1  
Project Name / Number: Entrada (OWP) #1-28  
Project Manager: Jake Harter

**Reported:**  
09/09/21 11:16

### Notes and Definitions

BS1	Laboratory control sample recovery above laboratory acceptance criteria. Results for analyte potentially biased high.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis *Results reported on as received basis unless designated as dry.
RPD	Relative Percent Difference
LCS	Laboratory Control Sample (Blank Spike)
RL	Report Limit
MDL	Method Detection Limit

Green Analytical Laboratories

Debbie Zufelt, Reports Manager

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