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09 December 2022

Kyle Siesser  
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 11/16/22 13:15. The data to follow was performed, in whole or in part, by Green Analytical Laboratories. Any data that was performed by a subcontract laboratory is included within the GAL report, or with an additional report attached.

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

Sincerely,

A handwritten signature in blue ink that reads 'Jeremy D. Allen'.

Jeremy D Allen  
Laboratory Director

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: T104704514-22-15

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: T104704398-22-15



Cottonwood Consulting  
PO Box 1653  
Durango CO, 81302

Project: COGCC Table 915-1  
Project Name / Number: Champlin 117 Amoco C #2  
Project Manager: Kyle Siesser

Reported:  
12/09/22 13:39

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
SS01	2211211-01	Solid	11/15/22 14:50	11/16/22 13:15	
SS02	2211211-02	Solid	11/15/22 14:55	11/16/22 13:15	
SS03	2211211-03	Solid	11/15/22 15:05	11/16/22 13:15	

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Jeremy D Allen, Laboratory Director

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: Champlin 117 Amoco C #2 Project Manager: Kyle Siesser	Reported: 12/09/22 13:39
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**SS01**

**2211211-01 (Soil)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**General Chemistry**

Hexavalent Chromium	<0.250	0.250	0.128	mg/kg dry	25	11/22/22 13:35	3060A/3500-Cr B		HTB
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**Saturated Paste Extraction**

Calcium	40.3	0.100	0.058	mg/L	1	12/01/22 15:48	EPA200.7		AES
Conductivity	840			umho/cm@25 C	1	11/29/22 16:00	ASA#9 10-3.3		JDA
Magnesium	30.4	0.100	0.065	mg/L	1	12/01/22 15:48	EPA200.7		AES
pH	8.04			pH Units	1	11/29/22 16:00	ASA#9 10-3.2		JDA
SAR	2.06			No Unit	1	12/01/22 15:48	Calculation		AES
Sodium	71.2	1.00	0.079	mg/L	1	12/01/22 15:48	EPA200.7		AES

**Total Metals by ICP**

Barium	186	5.00	1.10	mg/kg dry	100	12/01/22 13:17	6010B		AES
Cadmium	<5.00	5.00	2.54	mg/kg dry	100	12/01/22 13:17	6010B		AES
Chromium	17.6	5.00	1.58	mg/kg dry	100	12/01/22 13:17	6010B		AES
Copper	7.87	5.00	2.83	mg/kg dry	100	12/01/22 13:17	6010B		AES
Lead	<10.0	10.0	4.02	mg/kg dry	100	12/01/22 13:17	6010B		AES
Nickel	9.88	5.00	2.41	mg/kg dry	100	12/01/22 13:17	6010B		AES
Selenium	<20.0	20.0	5.39	mg/kg dry	100	12/01/22 13:16	6010B		AES
Silver	<1.00	1.00	0.518	mg/kg dry	100	12/01/22 13:16	6010B		AES
Zinc	42.7	10.0	2.18	mg/kg dry	100	12/01/22 13:17	6010B		AES

**Total Metals by ICPMS**

Arsenic	4.22	1.00	0.158	mg/kg dry	1000	12/01/22 16:45	6020A		AES
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**Hot Water Extractable**

Boron	<1.20	1.20	0.568	mg/L	4	12/01/22 14:35	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	11/23/22 03:18	8015B		MS
DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	11/23/22 03:18	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	11/23/22 03:18	8015B		MS

Surrogate: 1-Chlorooctane			83.9 %	45.3-161		11/23/22 03:18	8015B		MS
Surrogate: 1-Chlorooctadecane			90.3 %	46.3-178		11/23/22 03:18	8015B		MS

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Jeremy D Allen, Laboratory Director

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: Champlin 117 Amoco C #2 Project Manager: Kyle Siesser	Reported: 12/09/22 13:39
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SS01

2211211-01 (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	11/22/22 18:17	8260B		MS
Toluene*	<0.0250	0.0250	0.00670	mg/kg	50	11/22/22 18:17	8260B		MS
Ethylbenzene*	<0.0250	0.0250	0.00405	mg/kg	50	11/22/22 18:17	8260B		MS
m+p - Xylene*	<0.0500	0.0500	0.0186	mg/kg	50	11/22/22 18:17	8260B		MS
o-Xylene*	<0.0250	0.0250	0.00700	mg/kg	50	11/22/22 18:17	8260B		MS
Total Xylenes*	<0.0750	0.0750	0.0256	mg/kg	50	11/22/22 18:17	8260B		MS
1,3,5-Trimethylbenzene	<0.0250	0.0250	0.00450	mg/kg	50	11/22/22 18:17	8260B		MS
1,2,4-Trimethylbenzene	<0.0250	0.0250	0.00650	mg/kg	50	11/22/22 18:17	8260B		MS
Naphthalene*	<0.0250	0.0250	0.00500	mg/kg	50	11/22/22 18:17	8260B		MS
Surrogate: Dibromofluoromethane			92.1 %	84.6-114		11/22/22 18:17	8260B		MS
Surrogate: Toluene-d8			101 %	90.4-109		11/22/22 18:17	8260B		MS
Surrogate: 4-Bromofluorobenzene			99.3 %	82.5-117		11/22/22 18:17	8260B		MS

**Polynuclear Aromatic Compounds by GC/MS**

Naphthalene*	<0.040	0.040	0.015	mg/kg	40	12/02/22 02:18	8270C		MS
2-Methylnaphthalene*	<0.040	0.040	0.023	mg/kg	40	12/02/22 02:18	8270C		MS
1-Methylnaphthalene	<0.040	0.040	0.016	mg/kg	40	12/02/22 02:18	8270C		MS
Acenaphthene*	<0.040	0.040	0.024	mg/kg	40	12/02/22 02:18	8270C		MS
Fluorene*	<0.040	0.040	0.014	mg/kg	40	12/02/22 02:18	8270C		MS
Anthracene*	<0.040	0.040	0.017	mg/kg	40	12/02/22 02:18	8270C		MS
Fluoranthene*	<0.040	0.040	0.019	mg/kg	40	12/02/22 02:18	8270C		MS
Pyrene*	<0.040	0.040	0.013	mg/kg	40	12/02/22 02:18	8270C		MS
Benzo[a]anthracene*	<0.040	0.040	0.023	mg/kg	40	12/02/22 02:18	8270C		MS
Chrysene	<0.040	0.040	0.017	mg/kg	40	12/02/22 02:18	8270C		MS
Benzo[b]fluoranthene*	<0.040	0.040	0.019	mg/kg	40	12/02/22 02:18	8270C		MS
Benzo[k]fluoranthene*	<0.040	0.040	0.016	mg/kg	40	12/02/22 02:18	8270C		MS
Benzo[a]pyrene*	<0.040	0.040	0.018	mg/kg	40	12/02/22 02:18	8270C		MS
Indeno[1,2,3-cd]pyrene*	<0.040	0.040	0.017	mg/kg	40	12/02/22 02:18	8270C		MS
Dibenz[a,h]anthracene*	<0.040	0.040	0.019	mg/kg	40	12/02/22 02:18	8270C		MS
Surrogate: Nitrobenzene-d5			60.4 %	39.6-121		12/02/22 02:18	8270C		MS

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Jeremy D Allen, Laboratory Director

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Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: Champlin 117 Amoco C #2	<b>Reported:</b>
Durango CO, 81302	Project Manager: Kyle Siesser	12/09/22 13:39

SS01

2211211-01 (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

Surrogate: 2-Fluorobiphenyl	72.4 %	39.8-134				12/02/22 02:18	8270C		MS
Surrogate: Terphenyl-d14	72.4 %	33.3-136				12/02/22 02:18	8270C		MS

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: Champlin 117 Amoco C #2 Project Manager: Kyle Siesser	Reported: 12/09/22 13:39
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**SS02**

**2211211-02 (Soil)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**General Chemistry**

Hexavalent Chromium	<0.250	0.250	0.128	mg/kg dry	25	11/22/22 13:35	3060A/3500-Cr B		HTB
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**Saturated Paste Extraction**

Calcium	498	1.00	0.579	mg/L	10	12/01/22 15:53	EPA200.7		AES
Conductivity	4800			umho/cm@25 C	1	11/29/22 16:00	ASA#9 10-3.3		JDA
Magnesium	199	1.00	0.654	mg/L	10	12/01/22 15:53	EPA200.7		AES
pH	7.71			pH Units	1	11/29/22 16:00	ASA#9 10-3.2		JDA
SAR	2.78			No Unit	1	12/01/22 15:53	Calculation		AES
Sodium	290	10.0	0.793	mg/L	10	12/01/22 15:53	EPA200.7		AES

**Total Metals by ICP**

Barium	144	5.00	1.10	mg/kg dry	100	12/01/22 13:21	6010B		AES
Cadmium	<5.00	5.00	2.54	mg/kg dry	100	12/01/22 13:21	6010B		AES
Chromium	17.3	5.00	1.58	mg/kg dry	100	12/01/22 13:21	6010B		AES
Copper	8.95	5.00	2.83	mg/kg dry	100	12/01/22 13:21	6010B		AES
Lead	20.0	10.0	4.02	mg/kg dry	100	12/01/22 13:21	6010B		AES
Nickel	10.7	5.00	2.41	mg/kg dry	100	12/01/22 13:21	6010B		AES
Selenium	<20.0	20.0	5.39	mg/kg dry	100	12/01/22 13:21	6010B		AES
Silver	<1.00	1.00	0.518	mg/kg dry	100	12/01/22 13:21	6010B		AES
Zinc	59.1	10.0	2.18	mg/kg dry	100	12/01/22 13:21	6010B		AES

**Total Metals by ICPMS**

Arsenic	3.47	1.00	0.158	mg/kg dry	1000	12/01/22 16:49	6020A		AES
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**Hot Water Extractable**

Boron	<1.20	1.20	0.568	mg/L	4	12/01/22 14:37	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	11/23/22 03:42	8015B		MS
DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	11/23/22 03:42	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	11/23/22 03:42	8015B		MS

Surrogate: 1-Chlorooctane			82.5 %	45.3-161		11/23/22 03:42	8015B		MS
Surrogate: 1-Chlorooctadecane			90.3 %	46.3-178		11/23/22 03:42	8015B		MS

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Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: Champlin 117 Amoco C #2	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	12/09/22 13:39

SS02

2211211-02 (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	11/22/22 18:32	8260B		MS
Toluene*	<0.0250	0.0250	0.00670	mg/kg	50	11/22/22 18:32	8260B		MS
Ethylbenzene*	<0.0250	0.0250	0.00405	mg/kg	50	11/22/22 18:32	8260B		MS
m+p - Xylene*	<0.0500	0.0500	0.0186	mg/kg	50	11/22/22 18:32	8260B		MS
o-Xylene*	<0.0250	0.0250	0.00700	mg/kg	50	11/22/22 18:32	8260B		MS
Total Xylenes*	<0.0750	0.0750	0.0256	mg/kg	50	11/22/22 18:32	8260B		MS
1,3,5-Trimethylbenzene	<0.0250	0.0250	0.00450	mg/kg	50	11/22/22 18:32	8260B		MS
1,2,4-Trimethylbenzene	<0.0250	0.0250	0.00650	mg/kg	50	11/22/22 18:32	8260B		MS
Naphthalene*	<0.0250	0.0250	0.00500	mg/kg	50	11/22/22 18:32	8260B		MS
Surrogate: Dibromofluoromethane			92.4 %	84.6-114		11/22/22 18:32	8260B		MS
Surrogate: Toluene-d8			99.6 %	90.4-109		11/22/22 18:32	8260B		MS
Surrogate: 4-Bromofluorobenzene			99.8 %	82.5-117		11/22/22 18:32	8260B		MS

**Polynuclear Aromatic Compounds by GC/MS**

Naphthalene*	<0.040	0.040	0.015	mg/kg	40	12/02/22 02:49	8270C		MS
2-Methylnaphthalene*	<0.040	0.040	0.023	mg/kg	40	12/02/22 02:49	8270C		MS
1-Methylnaphthalene	<0.040	0.040	0.016	mg/kg	40	12/02/22 02:49	8270C		MS
Acenaphthene*	0.097	0.040	0.024	mg/kg	40	12/02/22 02:49	8270C		MS
Fluorene*	0.069	0.040	0.014	mg/kg	40	12/02/22 02:49	8270C		MS
Anthracene*	0.201	0.040	0.017	mg/kg	40	12/02/22 02:49	8270C		MS
Fluoranthene*	0.700	0.040	0.019	mg/kg	40	12/02/22 02:49	8270C		MS
Pyrene*	0.606	0.040	0.013	mg/kg	40	12/02/22 02:49	8270C		MS
Benzo[a]anthracene*	0.259	0.040	0.023	mg/kg	40	12/02/22 02:49	8270C		MS
Chrysene	0.249	0.040	0.017	mg/kg	40	12/02/22 02:49	8270C		MS
Benzo[b]fluoranthene*	0.208	0.040	0.019	mg/kg	40	12/02/22 02:49	8270C		MS
Benzo[k]fluoranthene*	0.075	0.040	0.016	mg/kg	40	12/02/22 02:49	8270C		MS
Benzo[a]pyrene*	0.169	0.040	0.018	mg/kg	40	12/02/22 02:49	8270C		MS
Indeno[1,2,3-cd]pyrene*	0.072	0.040	0.017	mg/kg	40	12/02/22 02:49	8270C		MS
Dibenz[a,h]anthracene*	<0.040	0.040	0.019	mg/kg	40	12/02/22 02:49	8270C		MS
Surrogate: Nitrobenzene-d5			74.3 %	39.6-121		12/02/22 02:49	8270C		MS

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Jeremy D Allen, Laboratory Director

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Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: Champlin 117 Amoco C #2	<b>Reported:</b>
Durango CO, 81302	Project Manager: Kyle Siesser	12/09/22 13:39

SS02

2211211-02 (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

Surrogate: 2-Fluorobiphenyl	92.6 %		39.8-134			12/02/22 02:49	8270C		MS
Surrogate: Terphenyl-d14	96.6 %		33.3-136			12/02/22 02:49	8270C		MS

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: Champlin 117 Amoco C #2 Project Manager: Kyle Siesser	Reported: 12/09/22 13:39
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**SS03**

**2211211-03 (Soil)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**General Chemistry**

Hexavalent Chromium	<0.250	0.250	0.128	mg/kg dry	25	11/22/22 13:35	3060A/3500-Cr B		HTB
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**Saturated Paste Extraction**

Calcium	87.1	0.100	0.058	mg/L	1	12/01/22 15:55	EPA200.7		AES
Conductivity	803			umho/cm@25 C	1	11/29/22 16:00	ASA#9 10-3.3		JDA
Magnesium	28.9	0.100	0.065	mg/L	1	12/01/22 15:56	EPA200.7		AES
pH	7.78			pH Units	1	11/29/22 16:00	ASA#9 10-3.2		JDA
SAR	0.61			No Unit	1	12/01/22 15:55	Calculation		AES
Sodium	25.8	1.00	0.079	mg/L	1	12/01/22 15:55	EPA200.7		AES

**Total Metals by ICP**

Barium	136	5.00	1.10	mg/kg dry	100	12/01/22 13:25	6010B		AES
Cadmium	<5.00	5.00	2.54	mg/kg dry	100	12/01/22 13:25	6010B		AES
Chromium	19.2	5.00	1.58	mg/kg dry	100	12/01/22 13:25	6010B		AES
Copper	8.82	5.00	2.83	mg/kg dry	100	12/01/22 13:25	6010B		AES
Lead	14.4	10.0	4.02	mg/kg dry	100	12/01/22 13:25	6010B		AES
Nickel	11.3	5.00	2.41	mg/kg dry	100	12/01/22 13:25	6010B		AES
Selenium	<20.0	20.0	5.39	mg/kg dry	100	12/01/22 13:25	6010B		AES
Silver	<1.00	1.00	0.518	mg/kg dry	100	12/01/22 13:25	6010B		AES
Zinc	51.7	10.0	2.18	mg/kg dry	100	12/01/22 13:25	6010B		AES

**Total Metals by ICPMS**

Arsenic	3.93	1.00	0.158	mg/kg dry	1000	12/01/22 16:51	6020A		AES
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**Hot Water Extractable**

Boron	<1.20	1.20	0.568	mg/L	4	12/01/22 14:40	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	11/23/22 04:04	8015B		MS
DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	11/23/22 04:04	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	11/23/22 04:04	8015B		MS

Surrogate: 1-Chlorooctane			68.5 %	45.3-161		11/23/22 04:04	8015B		MS
Surrogate: 1-Chlorooctadecane			81.9 %	46.3-178		11/23/22 04:04	8015B		MS

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: Champlin 117 Amoco C #2 Project Manager: Kyle Siesser	Reported: 12/09/22 13:39
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SS03

2211211-03 (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	11/22/22 18:48	8260B		MS
Toluene*	<0.0250	0.0250	0.00670	mg/kg	50	11/22/22 18:48	8260B		MS
Ethylbenzene*	<0.0250	0.0250	0.00405	mg/kg	50	11/22/22 18:48	8260B		MS
m+p - Xylene*	<0.0500	0.0500	0.0186	mg/kg	50	11/22/22 18:48	8260B		MS
o-Xylene*	<0.0250	0.0250	0.00700	mg/kg	50	11/22/22 18:48	8260B		MS
Total Xylenes*	<0.0750	0.0750	0.0256	mg/kg	50	11/22/22 18:48	8260B		MS
1,3,5-Trimethylbenzene	<0.0250	0.0250	0.00450	mg/kg	50	11/22/22 18:48	8260B		MS
1,2,4-Trimethylbenzene	<0.0250	0.0250	0.00650	mg/kg	50	11/22/22 18:48	8260B		MS
Naphthalene*	<0.0250	0.0250	0.00500	mg/kg	50	11/22/22 18:48	8260B		MS
Surrogate: Dibromofluoromethane			91.2 %	84.6-114		11/22/22 18:48	8260B		MS
Surrogate: Toluene-d8			100 %	90.4-109		11/22/22 18:48	8260B		MS
Surrogate: 4-Bromofluorobenzene			97.6 %	82.5-117		11/22/22 18:48	8260B		MS

**Polynuclear Aromatic Compounds by GC/MS**

Naphthalene*	<0.040	0.040	0.015	mg/kg	40	12/02/22 03:20	8270C		MS
2-Methylnaphthalene*	<0.040	0.040	0.023	mg/kg	40	12/02/22 03:20	8270C		MS
1-Methylnaphthalene	<0.040	0.040	0.016	mg/kg	40	12/02/22 03:20	8270C		MS
Acenaphthene*	<0.040	0.040	0.024	mg/kg	40	12/02/22 03:20	8270C		MS
Fluorene*	<0.040	0.040	0.014	mg/kg	40	12/02/22 03:20	8270C		MS
Anthracene*	<0.040	0.040	0.017	mg/kg	40	12/02/22 03:20	8270C		MS
Fluoranthene*	<0.040	0.040	0.019	mg/kg	40	12/02/22 03:20	8270C		MS
Pyrene*	<0.040	0.040	0.013	mg/kg	40	12/02/22 03:20	8270C		MS
Benzo[a]anthracene*	<0.040	0.040	0.023	mg/kg	40	12/02/22 03:20	8270C		MS
Chrysene	<0.040	0.040	0.017	mg/kg	40	12/02/22 03:20	8270C		MS
Benzo[b]fluoranthene*	<0.040	0.040	0.019	mg/kg	40	12/02/22 03:20	8270C		MS
Benzo[k]fluoranthene*	<0.040	0.040	0.016	mg/kg	40	12/02/22 03:20	8270C		MS
Benzo[a]pyrene*	<0.040	0.040	0.018	mg/kg	40	12/02/22 03:20	8270C		MS
Indeno[1,2,3-cd]pyrene*	<0.040	0.040	0.017	mg/kg	40	12/02/22 03:20	8270C		MS
Dibenz[a,h]anthracene*	<0.040	0.040	0.019	mg/kg	40	12/02/22 03:20	8270C		MS
Surrogate: Nitrobenzene-d5			67.5 %	39.6-121		12/02/22 03:20	8270C		MS

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Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: Champlin 117 Amoco C #2	<b>Reported:</b>
Durango CO, 81302	Project Manager: Kyle Siesser	12/09/22 13:39

SS03

2211211-03 (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

Surrogate: 2-Fluorobiphenyl	81.5 %	39.8-134				12/02/22 03:20	8270C		MS
Surrogate: Terphenyl-d14	81.6 %	33.3-136				12/02/22 03:20	8270C		MS

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Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: Champlin 117 Amoco C #2	<b>Reported:</b>
Durango CO, 81302	Project Manager: Kyle Siesser	12/09/22 13:39

**General Chemistry - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B223262 - General Prep - Wet Chem</b>										
<b>Blank (B223262-BLK1)</b> Prepared: 11/21/22 Analyzed: 11/22/22										
Hexavalent Chromium	ND	0.250	mg/kg dry							
<b>LCS (B223262-BS1)</b> Prepared: 11/21/22 Analyzed: 11/22/22										
Hexavalent Chromium	2.40	0.250	mg/kg dry	2.50		96.2	85-115			

**Saturated Paste Extraction - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B223325 - Paste Extract</b>										
<b>Blank (B223325-BLK1)</b> Prepared: 11/29/22 Analyzed: 12/01/22										
Calcium	ND	0.100	mg/L							
Magnesium	ND	0.100	mg/L							
SAR	0.00		No Unit							
Sodium	ND	1.00	mg/L							
<b>Reference (B223325-SRM1)</b> Prepared: 11/29/22 Analyzed: 12/01/22										
SAR	10.7		No Unit	10.5		101	90-110			
<b>Batch B223326 - Paste Extract</b>										
<b>Reference (B223326-SRM1)</b> Prepared & Analyzed: 11/29/22										
pH	7.05		pH Units	6.93		102	92-108			
<b>Batch B223327 - Paste Extract</b>										
<b>Reference (B223327-SRM1)</b> Prepared & Analyzed: 11/29/22										
Conductivity	8200		umho/cm@25C	8340		98.4	90-110			

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Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: Champlin 117 Amoco C #2	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	12/09/22 13:39

**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 B223310 - EPA 3050**

**Blank (B223310-BLK1)**

Prepared: 11/29/22 Analyzed: 12/01/22

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 (B223310-BS1)**

Prepared: 11/29/22 Analyzed: 12/01/22

Barium	191	5.00	mg/kg dry	200		95.7	80-120			
Cadmium	179	5.00	mg/kg dry	200		89.4	80-120			
Chromium	194	5.00	mg/kg dry	200		97.0	80-120			
Copper	396	5.00	mg/kg dry	400		99.1	80-120			
Lead	179	10.0	mg/kg dry	200		89.7	80-120			
Nickel	184	5.00	mg/kg dry	200		92.1	80-120			
Selenium	783	20.0	mg/kg dry	800		97.9	80-120			
Silver	9.32	1.00	mg/kg dry	10.0		93.2	80-120			
Zinc	168	10.0	mg/kg dry	200		84.2	80-120			

**LCS Dup (B223310-BSD1)**

Prepared: 11/29/22 Analyzed: 12/01/22

Barium	189	5.00	mg/kg dry	200		94.6	80-120	1.15	20	
Cadmium	176	5.00	mg/kg dry	200		87.9	80-120	1.62	20	
Chromium	191	5.00	mg/kg dry	200		95.7	80-120	1.30	20	
Copper	393	5.00	mg/kg dry	400		98.4	80-120	0.702	20	
Lead	178	10.0	mg/kg dry	200		89.1	80-120	0.676	20	
Nickel	184	5.00	mg/kg dry	200		91.9	80-120	0.231	20	
Selenium	780	20.0	mg/kg dry	800		97.5	80-120	0.472	20	
Silver	9.24	1.00	mg/kg dry	10.0		92.4	80-120	0.857	20	
Zinc	167	10.0	mg/kg dry	200		83.6	80-120	0.726	20	

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: Champlin 117 Amoco C #2 Project Manager: Kyle Siesser	Reported: 12/09/22 13:39
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**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 B223335 - EPA 3050M**

**Blank (B223335-BLK1)**

Prepared: 11/30/22 Analyzed: 12/01/22

Arsenic	ND	1.00	mg/kg dry							
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**LCS (B223335-BS1)**

Prepared: 11/30/22 Analyzed: 12/01/22

Arsenic	5.27	1.00	mg/kg dry	5.00		105	80-120			
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**LCS Dup (B223335-BSD1)**

Prepared: 11/30/22 Analyzed: 12/01/22

Arsenic	5.28	1.00	mg/kg dry	5.00		106	80-120	0.292	20	
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**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 B223324 - Hot Water Soluble Metals Extract**

**Blank (B223324-BLK1)**

Prepared: 11/29/22 Analyzed: 12/01/22

Boron	ND	1.20	mg/L							
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Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: Champlin 117 Amoco C #2	<b>Reported:</b>
Durango CO, 81302	Project Manager: Kyle Siesser	12/09/22 13:39

**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 2112219 - General Prep - Organics**

**Blank (2112219-BLK1)**

Prepared & Analyzed: 11/22/22

Surrogate: 1-Chlorooctadecane	57.9		mg/kg	50.0		116	46.3-178			
Surrogate: 1-Chlorooctane	53.3		mg/kg	50.0		107	45.3-161			
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 (2112219-BS1)**

Prepared & Analyzed: 11/22/22

Surrogate: 1-Chlorooctadecane	64.3		mg/kg	50.0		129	46.3-178			
Surrogate: 1-Chlorooctane	55.9		mg/kg	50.0		112	45.3-161			
DRO >C10-C28	184	10.0	mg/kg	200		91.9	74.9-127			
GRO C6-C10	195	10.0	mg/kg	200		97.7	76.8-124			
Total TPH C6-C28	379	10.0	mg/kg	400		94.8	77.5-124			

**LCS Dup (2112219-BSD1)**

Prepared & Analyzed: 11/22/22

Surrogate: 1-Chlorooctadecane	61.5		mg/kg	50.0		123	46.3-178			
Surrogate: 1-Chlorooctane	58.2		mg/kg	50.0		116	45.3-161			
DRO >C10-C28	197	10.0	mg/kg	200		98.4	74.9-127	6.75	18.6	
GRO C6-C10	216	10.0	mg/kg	200		108	76.8-124	9.92	17.2	
Total TPH C6-C28	413	10.0	mg/kg	400		103	77.5-124	8.40	17.6	

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Cottonwood Consulting	Project: COGCC Table 915-1	Reported:
PO Box 1653	Project Name / Number: Champlin 117 Amoco C #2	12/09/22 13:39
Durango CO, 81302	Project Manager: Kyle Siesser	

**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 2112216 - Volatiles**

**Blank (2112216-BLK1)**

Prepared & Analyzed: 11/22/22

1,2,4-Trimethylbenzene	ND	0.0250	mg/kg							
1,3,5-Trimethylbenzene	ND	0.0250	mg/kg							
<i>Surrogate: 4-Bromofluorobenzene</i>	1.23		mg/kg	1.25		98.4	82.5-117			
Benzene	ND	0.0250	mg/kg							
<i>Surrogate: Dibromofluoromethane</i>	1.17		mg/kg	1.25		93.5	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							
<i>Surrogate: Toluene-d8</i>	1.26		mg/kg	1.25		100	90.4-109			
Total Xylenes	ND	0.0750	mg/kg							

**LCS (2112216-BS1)**

Prepared & Analyzed: 11/22/22

1,2,4-Trimethylbenzene	0.509	0.0250	mg/kg	0.500		102	62.4-140			
1,3,5-Trimethylbenzene	0.520	0.0250	mg/kg	0.500		104	64.4-138			
<i>Surrogate: 4-Bromofluorobenzene</i>	1.25		mg/kg	1.25		100	82.5-117			
Benzene	0.509	0.0250	mg/kg	0.500		102	73-130			
<i>Surrogate: Dibromofluoromethane</i>	1.21		mg/kg	1.25		96.8	84.6-114			
Ethylbenzene	0.510	0.0250	mg/kg	0.500		102	75.4-127			
m+p - Xylene	1.03	0.0500	mg/kg	1.00		103	71.8-133			
Naphthalene	0.411	0.0250	mg/kg	0.500		82.1	28.7-158			
o-Xylene	0.505	0.0250	mg/kg	0.500		101	78.6-125			
Toluene	0.522	0.0250	mg/kg	0.500		104	79-122			
<i>Surrogate: Toluene-d8</i>	1.28		mg/kg	1.25		102	90.4-109			
Total Xylenes	1.53	0.0750	mg/kg	1.50		102	74.6-130			

**LCS Dup (2112216-BSD1)**

Prepared & Analyzed: 11/22/22

1,2,4-Trimethylbenzene	0.508	0.0250	mg/kg	0.500		102	62.4-140	0.147	38.2	
1,3,5-Trimethylbenzene	0.502	0.0250	mg/kg	0.500		100	64.4-138	3.54	39.1	
<i>Surrogate: 4-Bromofluorobenzene</i>	1.26		mg/kg	1.25		100	82.5-117			
Benzene	0.509	0.0250	mg/kg	0.500		102	73-130	0.0649	17.1	
<i>Surrogate: Dibromofluoromethane</i>	1.19		mg/kg	1.25		94.8	84.6-114			
Ethylbenzene	0.504	0.0250	mg/kg	0.500		101	75.4-127	1.19	16.5	
m+p - Xylene	1.02	0.0500	mg/kg	1.00		102	71.8-133	0.730	19.1	
Naphthalene	0.359	0.0250	mg/kg	0.500		71.8	28.7-158	13.4	64	
o-Xylene	0.489	0.0250	mg/kg	0.500		97.8	78.6-125	3.22	13.2	
Toluene	0.518	0.0250	mg/kg	0.500		104	79-122	0.850	18.3	

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Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: Champlin 117 Amoco C #2	<b>Reported:</b>
Durango CO, 81302	Project Manager: Kyle Siesser	12/09/22 13:39

**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 2112216 - Volatiles (Continued)**

**LCS Dup (2112216-BSD1) (Continued)**

Prepared & Analyzed: 11/22/22

Surrogate: Toluene-d8	1.26		mg/kg	1.25		101	90.4-109			
Total Xylenes	1.51	0.0750	mg/kg	1.50		101	74.6-130	1.54	16.5	

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Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: Champlin 117 Amoco C #2	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	12/09/22 13:39

**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 2112808 - SW846-3510**

**Blank (2112808-BLK1)**

Prepared: 11/28/22 Analyzed: 12/02/22

1-Methylnaphthalene	ND	0.040	mg/kg							
<i>Surrogate: 2-Fluorobiphenyl</i>	1.63		mg/kg	2.00		81.7	39.8-134			
2-Methylnaphthalene	ND	0.040	mg/kg							
Acenaphthene	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]flouranthene	ND	0.040	mg/kg							
Benzo[k]flouranthene	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							
<i>Surrogate: Nitrobenzene-d5</i>	1.39		mg/kg	2.00		69.6	39.6-121			
Pyrene	ND	0.040	mg/kg							
<i>Surrogate: Terphenyl-d14</i>	1.63		mg/kg	2.00		81.4	33.3-136			

**LCS (2112808-BS1)**

Prepared: 11/28/22 Analyzed: 12/02/22

1-Methylnaphthalene	0.314	0.040	mg/kg	0.400		78.5	57.6-108			
<i>Surrogate: 2-Fluorobiphenyl</i>	1.75		mg/kg	2.00		87.7	39.8-134			
2-Methylnaphthalene	0.312	0.040	mg/kg	0.400		78.1	59-106			
Acenaphthene	0.328	0.040	mg/kg	0.400		82.1	60.9-105			
Acenaphthylene	0.342	0.040	mg/kg	0.400		85.5	57.4-107			
Anthracene	0.322	0.040	mg/kg	0.400		80.6	60.8-105			
Benzo[a]anthracene	0.327	0.040	mg/kg	0.400		81.6	56.1-121			
Benzo[a]pyrene	0.334	0.040	mg/kg	0.400		83.5	56.7-115			
Benzo[b]flouranthene	0.331	0.040	mg/kg	0.400		82.8	45.4-128			
Benzo[g,h,i]perylene	0.335	0.040	mg/kg	0.400		83.8	56.5-107			
Benzo[k]flouranthene	0.314	0.040	mg/kg	0.400		78.5	49.6-119			
Carbazole	0.331	0.040	mg/kg	0.400		82.7	59.7-107			
Chrysene	0.331	0.040	mg/kg	0.400		82.9	12.2-190			
Dibenz[a,h]anthracene	0.341	0.040	mg/kg	0.400		85.3	59.1-111			
Fluoranthene	0.334	0.040	mg/kg	0.400		83.6	60.6-111			
Fluorene	0.322	0.040	mg/kg	0.400		80.6	59.3-108			
Indeno[1,2,3-cd]pyrene	0.335	0.040	mg/kg	0.400		83.7	53.4-116			
Naphthalene	0.316	0.040	mg/kg	0.400		79.1	56.5-106			

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Jeremy D Allen, Laboratory Director

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Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: Champlin 117 Amoco C #2	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	12/09/22 13:39

**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 2112808 - SW846-3510 (Continued)**

**LCS (2112808-BS1) (Continued)**

Prepared: 11/28/22 Analyzed: 12/02/22

<i>Surrogate: Nitrobenzene-d5</i>	1.42		mg/kg	2.00		70.8	39.6-121			
Phenanthrene	0.326	0.040	mg/kg	0.400		81.6	59.9-107			
Pyrene	0.318	0.040	mg/kg	0.400		79.5	51.5-122			
<i>Surrogate: Terphenyl-d14</i>	1.68		mg/kg	2.00		84.0	33.3-136			

**LCS Dup (2112808-BS1)**

Prepared: 11/28/22 Analyzed: 12/02/22

1-Methylnaphthalene	0.358	0.040	mg/kg	0.400		89.5	57.6-108	13.0	6.22	
<i>Surrogate: 2-Fluorobiphenyl</i>	1.63		mg/kg	2.00		81.6	39.8-134			
2-Methylnaphthalene	0.340	0.040	mg/kg	0.400		85.1	59-106	8.65	6.23	
Acenaphthene	0.317	0.040	mg/kg	0.400		79.1	60.9-105	3.61	8.18	
Acenaphthylene	0.325	0.040	mg/kg	0.400		81.3	57.4-107	5.10	5	
Anthracene	0.346	0.040	mg/kg	0.400		86.5	60.8-105	7.10	3.68	
Benzo[a]anthracene	0.327	0.040	mg/kg	0.400		81.8	56.1-121	0.147	9.01	
Benzo[a]pyrene	0.332	0.040	mg/kg	0.400		82.9	56.7-115	0.739	4.92	
Benzo[b]fluoranthene	0.312	0.040	mg/kg	0.400		77.9	45.4-128	6.11	7.63	
Benzo[g,h,i]perylene	0.310	0.040	mg/kg	0.400		77.6	56.5-107	7.71	12.5	
Benzo[k]fluoranthene	ND	0.040	mg/kg	0.400			49.6-119		10.6	
Carbazole	0.347	0.040	mg/kg	0.400		86.8	59.7-107	4.87	8.65	
Chrysene	0.321	0.040	mg/kg	0.400		80.2	12.2-190	3.33	21.8	
Dibenz[a,h]anthracene	0.324	0.040	mg/kg	0.400		81.1	59.1-111	5.09	11.6	
Fluoranthene	0.346	0.040	mg/kg	0.400		86.6	60.6-111	3.51	7.54	
Fluorene	0.323	0.040	mg/kg	0.400		80.6	59.3-108	0.0310	5.49	
Indeno[1,2,3-cd]pyrene	0.310	0.040	mg/kg	0.400		77.6	53.4-116	7.53	22.3	
Naphthalene	0.342	0.040	mg/kg	0.400		85.4	56.5-106	7.65	4.56	
<i>Surrogate: Nitrobenzene-d5</i>	1.51		mg/kg	2.00		75.7	39.6-121			
Phenanthrene	0.344	0.040	mg/kg	0.400		86.1	59.9-107	5.37	5.21	
Pyrene	0.341	0.040	mg/kg	0.400		85.1	51.5-122	6.87	10.6	
<i>Surrogate: Terphenyl-d14</i>	1.83		mg/kg	2.00		91.7	33.3-136			

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Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: Champlin 117 Amoco C #2	<b>Reported:</b>
Durango CO, 81302	Project Manager: Kyle Siesser	12/09/22 13:39

**Notes and Definitions**

- 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

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Jeremy D Allen, Laboratory Director

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