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27 September 2021

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 09/03/21 11:15. 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'. The script is cursive and fluid, with the first name 'Debbie' and last name 'Zufelt' clearly legible.

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: Margaret Spaulding (OWP) 12-A
Project Manager: Kyle Siesser

Reported:
09/27/21 15:21

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
SS01	2109058-01	Solid	09/01/21 11:40	09/03/21 11:15	
SS02	2109058-02	Solid	09/01/21 11:35	09/03/21 11:15	
SS03	2109058-03	Solid	09/01/21 11:30	09/03/21 11:15	
SS04	2109058-04	Solid	09/01/21 11:25	09/03/21 11:15	

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Debbie Zufelt, Reports Manager

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Project: COGCC Table 915-1
Project Name / Number: Margaret Spaulding (OWP) 12-A
Project Manager: Kyle Siesser

Reported:
09/27/21 15:21

SS01

2109058-01 (Soil)

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

Hexavalent Chromium	<0.250	0.250	0.0543	mg/kg	25	09/23/21 13:00	3060A/3500-Cr D	M5	JDA
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Saturated Paste Extraction

Calcium	104	0.100	0.058	mg/L	1	09/23/21 13:59	EPA200.7		AES
Conductivity	632			umho/cm @ 25.0°C	1	09/23/21 09:50	ASA#9 10-3.3		VJW
Magnesium	12.2	0.100	0.065	mg/L	1	09/23/21 13:59	EPA200.7		AES
pH	7.06			pH Units	1	09/23/21 07:44	ASA#9 10-3.2		VJW
SAR	0.37			No Unit	1	09/23/21 13:59	Calculation		AES
Sodium	14.8	1.00	0.079	mg/L	1	09/23/21 13:59	EPA200.7		AES

Total Metals by ICP

Barium	866	5.00	0.390	mg/kg dry	100	09/21/21 13:52	6010B		AES
Cadmium	<5.00	5.00	1.10	mg/kg dry	100	09/21/21 13:52	6010B	SD2	AES
Chromium	85.7	5.00	0.400	mg/kg dry	100	09/21/21 13:52	6010B	SD2	AES
Copper	46.4	5.00	2.39	mg/kg dry	100	09/21/21 13:52	6010B		AES
Lead	1020	10.0	0.906	mg/kg dry	100	09/21/21 13:52	6010B		AES
Nickel	35.1	5.00	0.874	mg/kg dry	100	09/21/21 13:52	6010B	SD2	AES
Selenium	<20.0	20.0	4.70	mg/kg dry	100	09/21/21 13:52	6010B	SD2	AES
Silver	<1.00	1.00	0.688	mg/kg dry	100	09/21/21 13:52	6010B		AES
Zinc	128	10.0	1.71	mg/kg dry	100	09/21/21 13:52	6010B		AES

Total Metals by ICPMS

Arsenic	4.12	1.00	0.0950	mg/kg dry	1000	09/17/21 14:12	6020A		AES
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Hot Water Extractable

Boron	<1.20	1.20	0.568	mg/L	4	09/22/21 15:46	EPA200.7		AES
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

S-06

GRO C6-C10*	107	100	62.5	mg/kg	10	09/11/21 06:12	8015B		MS
DRO >C10-C28*	30500	100	42.6	mg/kg	10	09/11/21 06:12	8015B		MS
EXT DRO >C28-C36	12800	100	42.6	mg/kg	10	09/11/21 06:12	8015B		MS

Surrogate: 1-Chlorooctane	134 %	44.3-133	09/11/21 06:12	8015B	MS
Surrogate: 1-Chlorooctadecane	771 %	38.9-142	09/11/21 06:12	8015B	MS

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Debbie Zufelt, Reports Manager

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Project: COGCC Table 915-1
Project Name / Number: Margaret Spaulding (OWP) 12-A
Project Manager: Kyle Siesser

Reported:
09/27/21 15:21

SS01

2109058-01 (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*	0.0279	0.0250	0.00885	mg/kg	50	09/10/21 19:15	8260B		MS
Toluene*	0.0607	0.0250	0.00670	mg/kg	50	09/10/21 19:15	8260B		MS
Ethylbenzene*	<0.0250	0.0250	0.00405	mg/kg	50	09/10/21 19:15	8260B		MS
m+p - Xylene*	<0.0500	0.0500	0.0186	mg/kg	50	09/10/21 19:15	8260B		MS
o-Xylene*	<0.0250	0.0250	0.00700	mg/kg	50	09/10/21 19:15	8260B		MS
Total Xylenes*	<0.0750	0.0750	0.0250	mg/kg	50	09/10/21 19:15	8260B		MS
1,3,5-Trimethylbenzene	0.0326	0.0250	0.00450	mg/kg	50	09/10/21 19:15	8260B		MS
1,2,4-Trimethylbenzene	<0.0250	0.0250	0.00650	mg/kg	50	09/10/21 19:15	8260B		MS
Naphthalene*	0.0292	0.0250	0.00500	mg/kg	50	09/10/21 19:15	8260B		MS

Surrogate: Dibromofluoromethane	37.4 %	84.6-114			09/10/21 19:15	8260B	S-04	MS
Surrogate: Toluene-d8	115 %	90.4-109			09/10/21 19:15	8260B	S-04	MS
Surrogate: 4-Bromofluorobenzene	116 %	82.5-117			09/10/21 19:15	8260B		MS

Polynuclear Aromatic Compounds by GC/MS

Naphthalene*	<0.153	0.400	0.153	mg/kg	400	09/16/21 21:12	8270C		MS
2-Methylnaphthalene*	<0.226	0.400	0.226	mg/kg	400	09/16/21 21:12	8270C		MS
1-Methylnaphthalene	<0.161	0.400	0.161	mg/kg	400	09/16/21 21:12	8270C		MS
Acenaphthylene*	<0.196	0.400	0.196	mg/kg	400	09/16/21 21:12	8270C		MS
Acenaphthene*	<0.235	0.400	0.235	mg/kg	400	09/16/21 21:12	8270C		MS
Fluorene*	<0.142	0.400	0.142	mg/kg	400	09/16/21 21:12	8270C		MS
Phenanthrene*	<0.214	0.400	0.214	mg/kg	400	09/16/21 21:12	8270C		MS
Anthracene*	<0.172	0.400	0.172	mg/kg	400	09/16/21 21:12	8270C		MS
Carbazole*	<0.190	0.400	0.190	mg/kg	400	09/16/21 21:12	8270C		MS
Fluoranthene*	<0.185	0.400	0.185	mg/kg	400	09/16/21 21:12	8270C		MS
Pyrene*	2.67	0.400	0.132	mg/kg	400	09/16/21 21:12	8270C		MS
Benzo[a]anthracene*	<0.230	0.400	0.230	mg/kg	400	09/16/21 21:12	8270C		MS
Chrysene*	2.98	0.400	0.172	mg/kg	400	09/16/21 21:12	8270C		MS
Benzo[b]fluoranthene*	1.06	0.400	0.192	mg/kg	400	09/16/21 21:12	8270C		MS
Benzo[k]fluoranthene*	<0.157	0.400	0.157	mg/kg	400	09/16/21 21:12	8270C		MS
Benzo[a]pyrene*	<0.182	0.400	0.182	mg/kg	400	09/16/21 21:12	8270C		MS
Indeno[1,2,3-cd]pyrene*	<0.168	0.400	0.168	mg/kg	400	09/16/21 21:12	8270C		MS

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Debbie Zufelt

Debbie Zufelt, Reports Manager

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Project: COGCC Table 915-1
Project Name / Number: Margaret Spaulding (OWP) 12-A
Project Manager: Kyle Siesser

Reported:
09/27/21 15:21

SS01

2109058-01 (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*	<0.186	0.400	0.186	mg/kg	400	09/16/21 21:12	8270C		MS
Benzo[g,h,i]perylene*	0.851	0.400	0.186	mg/kg	400	09/16/21 21:12	8270C		MS
Surrogate: Nitrobenzene-d5			85.1 %	39.6-121		09/16/21 21:12	8270C		MS
Surrogate: 2-Fluorobiphenyl			71.1 %	39.8-134		09/16/21 21:12	8270C		MS
Surrogate: Terphenyl-d14			83.8 %	33.3-136		09/16/21 21:12	8270C		MS

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Project: COGCC Table 915-1
Project Name / Number: Margaret Spaulding (OWP) 12-A
Project Manager: Kyle Siesser

Reported:
09/27/21 15:21

SS02

2109058-02 (Soil)

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

Hexavalent Chromium	<0.250	0.250	0.0543	mg/kg	25	09/23/21 13:00	3060A/3500-Cr D		JDA
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Saturated Paste Extraction

Calcium	48.9	0.100	0.058	mg/L	1	09/23/21 14:00	EPA200.7		AES
Conductivity	963			umho/cm @ 25.0°C	1	09/23/21 09:50	ASA#9 10-3.3		VJW
Magnesium	10.4	0.100	0.065	mg/L	1	09/23/21 14:00	EPA200.7		AES
pH	6.56			pH Units	1	09/23/21 07:44	ASA#9 10-3.2		VJW
SAR	2.70			No Unit	1	09/23/21 14:00	Calculation		AES
Sodium	79.6	1.00	0.079	mg/L	1	09/23/21 14:00	EPA200.7		AES

Total Metals by ICP

Barium	96.9	5.00	0.390	mg/kg dry	100	09/21/21 14:03	6010B		AES
Cadmium	<5.00	5.00	1.10	mg/kg dry	100	09/21/21 14:03	6010B		AES
Chromium	6.92	5.00	0.400	mg/kg dry	100	09/21/21 14:03	6010B		AES
Copper	13.0	5.00	2.39	mg/kg dry	100	09/21/21 14:03	6010B		AES
Lead	<10.0	10.0	0.906	mg/kg dry	100	09/21/21 14:03	6010B		AES
Nickel	6.41	5.00	0.874	mg/kg dry	100	09/21/21 14:03	6010B		AES
Selenium	<20.0	20.0	4.70	mg/kg dry	100	09/21/21 14:03	6010B		AES
Silver	<1.00	1.00	0.688	mg/kg dry	100	09/21/21 14:03	6010B		AES
Zinc	33.7	10.0	1.71	mg/kg dry	100	09/21/21 14:03	6010B		AES

Total Metals by ICPMS

Arsenic	1.79	1.00	0.0950	mg/kg dry	1000	09/17/21 14:22	6020A		AES
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Hot Water Extractable

Boron	<1.20	1.20	0.568	mg/L	4	09/22/21 15:50	EPA200.7		AES
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

S-06

GRO C6-C10*	1450	100	62.5	mg/kg	10	09/11/21 06:32	8015B		MS
DRO >C10-C28*	43200	100	42.6	mg/kg	10	09/11/21 06:32	8015B		MS
EXT DRO >C28-C36	16000	100	42.6	mg/kg	10	09/11/21 06:32	8015B		MS

Surrogate: 1-Chlorooctane 185 % 44.3-133 09/11/21 06:32 8015B MS

Surrogate: 1-Chlorooctadecane 869 % 38.9-142 09/11/21 06:32 8015B MS

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Debbie Zufelt, Reports Manager

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Project: COGCC Table 915-1
Project Name / Number: Margaret Spaulding (OWP) 12-A
Project Manager: Kyle Siesser

Reported:
09/27/21 15:21

SS02

2109058-02 (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*	<0.250	0.250	0.0885	mg/kg	500	09/10/21 18:55	8260B		MS
Toluene*	0.776	0.250	0.0670	mg/kg	500	09/10/21 18:55	8260B		MS
Ethylbenzene*	0.631	0.250	0.0405	mg/kg	500	09/10/21 18:55	8260B		MS
m+p - Xylene*	6.30	0.500	0.186	mg/kg	500	09/10/21 18:55	8260B		MS
o-Xylene*	4.98	0.250	0.0700	mg/kg	500	09/10/21 18:55	8260B		MS
Total Xylenes*	11.3	0.750	0.250	mg/kg	500	09/10/21 18:55	8260B		MS
1,3,5-Trimethylbenzene	15.7	0.250	0.0450	mg/kg	500	09/10/21 18:55	8260B		MS
1,2,4-Trimethylbenzene	10.9	0.250	0.0650	mg/kg	500	09/10/21 18:55	8260B		MS
Naphthalene*	1.76	0.250	0.0500	mg/kg	500	09/10/21 18:55	8260B		MS

Surrogate: Dibromofluoromethane 102 % 84.6-114 09/10/21 18:55 8260B MS

Surrogate: Toluene-d8 101 % 90.4-109 09/10/21 18:55 8260B MS

Surrogate: 4-Bromofluorobenzene 134 % 82.5-117 09/10/21 18:55 8260B S-04 MS

Polynuclear Aromatic Compounds by GC/MS

Naphthalene*	4.34	0.400	0.153	mg/kg	400	09/16/21 21:42	8270C		MS
2-Methylnaphthalene*	16.2	0.400	0.226	mg/kg	400	09/16/21 21:42	8270C		MS
1-Methylnaphthalene	28.9	0.400	0.161	mg/kg	400	09/16/21 21:42	8270C		MS
Acenaphthylene*	<0.196	0.400	0.196	mg/kg	400	09/16/21 21:42	8270C		MS
Acenaphthene*	<0.235	0.400	0.235	mg/kg	400	09/16/21 21:42	8270C		MS
Fluorene*	8.22	0.400	0.142	mg/kg	400	09/16/21 21:42	8270C		MS
Phenanthrene*	25.5	0.400	0.214	mg/kg	400	09/16/21 21:42	8270C		MS
Anthracene*	<0.172	0.400	0.172	mg/kg	400	09/16/21 21:42	8270C		MS
Carbazole*	<0.190	0.400	0.190	mg/kg	400	09/16/21 21:42	8270C		MS
Fluoranthene*	1.90	0.400	0.185	mg/kg	400	09/16/21 21:42	8270C		MS
Pyrene*	5.13	0.400	0.132	mg/kg	400	09/16/21 21:42	8270C		MS
Benzo[a]anthracene*	<0.230	0.400	0.230	mg/kg	400	09/16/21 21:42	8270C		MS
Chrysene*	7.15	0.400	0.172	mg/kg	400	09/16/21 21:42	8270C		MS
Benzo[b]fluoranthene*	1.84	0.400	0.192	mg/kg	400	09/16/21 21:42	8270C		MS
Benzo[k]fluoranthene*	<0.157	0.400	0.157	mg/kg	400	09/16/21 21:42	8270C		MS
Benzo[a]pyrene*	4.20	0.400	0.182	mg/kg	400	09/16/21 21:42	8270C		MS
Indeno[1,2,3-cd]pyrene*	0.283	0.400	0.168	mg/kg	400	09/16/21 21:42	8270C	J	MS

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Project: COGCC Table 915-1
Project Name / Number: Margaret Spaulding (OWP) 12-A
Project Manager: Kyle Siesser

Reported:
09/27/21 15:21

SS02

2109058-02 (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

Dibenz[a,h]anthracene*	<0.186	0.400	0.186	mg/kg	400	09/16/21 21:42	8270C		MS
Benzo[g,h,i]perylene*	1.13	0.400	0.186	mg/kg	400	09/16/21 21:42	8270C		MS
Surrogate: Nitrobenzene-d5			340 %	39.6-121		09/16/21 21:42	8270C	S-06	MS
Surrogate: 2-Fluorobiphenyl			80.3 %	39.8-134		09/16/21 21:42	8270C		MS
Surrogate: Terphenyl-d14			102 %	33.3-136		09/16/21 21:42	8270C		MS

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Project: COGCC Table 915-1
Project Name / Number: Margaret Spaulding (OWP) 12-A
Project Manager: Kyle Siesser

Reported:
09/27/21 15:21

SS03

2109058-03 (Soil)

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

Hexavalent Chromium	<0.250	0.250	0.0543	mg/kg	25	09/23/21 13:00	3060A/3500-Cr D		JDA
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Saturated Paste Extraction

Calcium	65.9	0.100	0.058	mg/L	1	09/23/21 14:02	EPA200.7		AES
Conductivity	486			umho/cm @ 25.0°C	1	09/23/21 09:50	ASA#9 10-3.3		VJW
Magnesium	13.0	0.100	0.065	mg/L	1	09/23/21 14:02	EPA200.7		AES
pH	7.33			pH Units	1	09/23/21 07:44	ASA#9 10-3.2		VJW
SAR	0.65			No Unit	1	09/23/21 14:02	Calculation		AES
Sodium	22.0	1.00	0.079	mg/L	1	09/23/21 14:02	EPA200.7		AES

Total Metals by ICP

Barium	238	5.00	0.390	mg/kg dry	100	09/21/21 14:07	6010B		AES
Cadmium	<5.00	5.00	1.10	mg/kg dry	100	09/21/21 14:07	6010B		AES
Chromium	24.6	5.00	0.400	mg/kg dry	100	09/21/21 14:07	6010B		AES
Copper	21.8	5.00	2.39	mg/kg dry	100	09/21/21 14:07	6010B		AES
Lead	25.6	10.0	0.906	mg/kg dry	100	09/21/21 14:07	6010B		AES
Nickel	12.7	5.00	0.874	mg/kg dry	100	09/21/21 14:07	6010B		AES
Selenium	<20.0	20.0	4.70	mg/kg dry	100	09/21/21 14:07	6010B		AES
Silver	<1.00	1.00	0.688	mg/kg dry	100	09/21/21 14:07	6010B		AES
Zinc	66.6	10.0	1.71	mg/kg dry	100	09/21/21 14:07	6010B		AES

Total Metals by ICPMS

Arsenic	2.57	1.00	0.0950	mg/kg dry	1000	09/17/21 14:25	6020A		AES
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Hot Water Extractable

Boron	<1.20	1.20	0.568	mg/L	4	09/22/21 15:53	EPA200.7		AES
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

S-04

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	09/13/21 10:41	8015B		MS
DRO >C10-C28*	1330	10.0	4.26	mg/kg	1	09/13/21 10:41	8015B		MS
EXT DRO >C28-C36	744	10.0	4.26	mg/kg	1	09/13/21 10:41	8015B		MS

Surrogate: 1-Chlorooctane 101 % 44.3-133 09/13/21 10:41 8015B MS

Surrogate: 1-Chlorooctadecane 158 % 38.9-142 09/13/21 10:41 8015B MS

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Debbie Zufelt, Reports Manager

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Cottonwood Consulting
PO Box 1653
Durango CO, 81302

Project: COGCC Table 915-1
Project Name / Number: Margaret Spaulding (OWP) 12-A
Project Manager: Kyle Siesser

Reported:
09/27/21 15:21

SS03

2109058-03 (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	09/10/21 17:36	8260B		MS
Toluene*	<0.0250	0.0250	0.00670	mg/kg	50	09/10/21 17:36	8260B		MS
Ethylbenzene*	<0.0250	0.0250	0.00405	mg/kg	50	09/10/21 17:36	8260B		MS
m+p - Xylene*	<0.0500	0.0500	0.0186	mg/kg	50	09/10/21 17:36	8260B		MS
o-Xylene*	<0.0250	0.0250	0.00700	mg/kg	50	09/10/21 17:36	8260B		MS
Total Xylenes*	<0.0750	0.0750	0.0250	mg/kg	50	09/10/21 17:36	8260B		MS
1,3,5-Trimethylbenzene	<0.0250	0.0250	0.00450	mg/kg	50	09/10/21 17:36	8260B		MS
1,2,4-Trimethylbenzene	<0.0250	0.0250	0.00650	mg/kg	50	09/10/21 17:36	8260B		MS
Naphthalene*	0.0422	0.0250	0.00500	mg/kg	50	09/10/21 17:36	8260B		MS

Surrogate: Dibromofluoromethane 104 % 84.6-114 09/10/21 17:36 8260B MS

Surrogate: Toluene-d8 98.5 % 90.4-109 09/10/21 17:36 8260B MS

Surrogate: 4-Bromofluorobenzene 93.7 % 82.5-117 09/10/21 17:36 8260B MS

Polynuclear Aromatic Compounds by GC/MS

Naphthalene*	<0.015	0.040	0.015	mg/kg	40	09/20/21 18:43	8270C		MS
2-Methylnaphthalene*	<0.023	0.040	0.023	mg/kg	40	09/20/21 18:43	8270C		MS
1-Methylnaphthalene	0.041	0.040	0.016	mg/kg	40	09/20/21 18:43	8270C		MS
Acenaphthylene*	<0.020	0.040	0.020	mg/kg	40	09/20/21 18:43	8270C		MS
Acenaphthene*	<0.024	0.040	0.024	mg/kg	40	09/20/21 18:43	8270C		MS
Fluorene*	<0.014	0.040	0.014	mg/kg	40	09/20/21 18:43	8270C		MS
Phenanthrene*	<0.021	0.040	0.021	mg/kg	40	09/20/21 18:43	8270C		MS
Anthracene*	<0.017	0.040	0.017	mg/kg	40	09/20/21 18:43	8270C		MS
Carbazole*	<0.019	0.040	0.019	mg/kg	40	09/20/21 18:43	8270C		MS
Fluoranthene*	<0.019	0.040	0.019	mg/kg	40	09/20/21 18:43	8270C		MS
Pyrene*	0.138	0.040	0.013	mg/kg	40	09/20/21 18:43	8270C		MS
Benzo[a]anthracene*	<0.023	0.040	0.023	mg/kg	40	09/20/21 18:43	8270C		MS
Chrysene*	0.193	0.040	0.017	mg/kg	40	09/20/21 18:43	8270C		MS
Benzo[b]fluoranthene*	0.058	0.040	0.019	mg/kg	40	09/20/21 18:43	8270C		MS
Benzo[k]fluoranthene*	<0.016	0.040	0.016	mg/kg	40	09/20/21 18:43	8270C		MS
Benzo[a]pyrene*	0.219	0.040	0.018	mg/kg	40	09/20/21 18:43	8270C		MS
Indeno[1,2,3-cd]pyrene*	<0.017	0.040	0.017	mg/kg	40	09/20/21 18:43	8270C		MS

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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: Margaret Spaulding (OWP) 12-A
Project Manager: Kyle Siesser

Reported:
09/27/21 15:21

SS03

2109058-03 (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

Dibenz[a,h]anthracene*	<0.019	0.040	0.019	mg/kg	40	09/20/21 18:43	8270C		MS
Benzo[g,h,i]perylene*	0.113	0.040	0.019	mg/kg	40	09/20/21 18:43	8270C		MS
Surrogate: Nitrobenzene-d5			61.9 %	39.6-121		09/20/21 18:43	8270C		MS
Surrogate: 2-Fluorobiphenyl			71.0 %	39.8-134		09/20/21 18:43	8270C		MS
Surrogate: Terphenyl-d14			71.1 %	33.3-136		09/20/21 18:43	8270C		MS

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Project: COGCC Table 915-1
Project Name / Number: Margaret Spaulding (OWP) 12-A
Project Manager: Kyle Siesser

Reported:
09/27/21 15:21

SS04

2109058-04 (Soil)

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

Hexavalent Chromium	<0.250	0.250	0.0543	mg/kg	25	09/23/21 13:00	3060A/3500-Cr D		JDA
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Saturated Paste Extraction

Calcium	41.2	0.100	0.058	mg/L	1	09/23/21 14:04	EPA200.7		AES
Conductivity	771			umho/cm @ 25.0°C	1	09/23/21 09:50	ASA#9 10-3.3		VJW
Magnesium	11.0	0.100	0.065	mg/L	1	09/23/21 14:04	EPA200.7		AES
pH	7.17			pH Units	1	09/23/21 07:44	ASA#9 10-3.2		VJW
SAR	4.54			No Unit	1	09/23/21 14:04	Calculation		AES
Sodium	127	1.00	0.079	mg/L	1	09/23/21 14:04	EPA200.7		AES

Total Metals by ICP

Barium	234	5.00	0.390	mg/kg dry	100	09/21/21 14:11	6010B		AES
Cadmium	<5.00	5.00	1.10	mg/kg dry	100	09/21/21 14:11	6010B		AES
Chromium	25.5	5.00	0.400	mg/kg dry	100	09/21/21 14:11	6010B		AES
Copper	23.0	5.00	2.39	mg/kg dry	100	09/21/21 14:11	6010B		AES
Lead	13.5	10.0	0.906	mg/kg dry	100	09/21/21 14:11	6010B		AES
Nickel	14.8	5.00	0.874	mg/kg dry	100	09/21/21 14:11	6010B		AES
Selenium	<20.0	20.0	4.70	mg/kg dry	100	09/21/21 14:11	6010B		AES
Silver	<1.00	1.00	0.688	mg/kg dry	100	09/21/21 14:11	6010B		AES
Zinc	54.6	10.0	1.71	mg/kg dry	100	09/21/21 14:11	6010B		AES

Total Metals by ICPMS

Arsenic	4.05	1.00	0.0950	mg/kg dry	1000	09/17/21 14:29	6020A		AES
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Hot Water Extractable

Boron	<1.20	1.20	0.568	mg/L	4	09/22/21 15:59	EPA200.7		AES
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

S-04

GRO C6-C10*	88.3	10.0	6.25	mg/kg	1	09/13/21 10:57	8015B		MS
DRO >C10-C28*	1540	10.0	4.26	mg/kg	1	09/13/21 10:57	8015B		MS
EXT DRO >C28-C36	558	10.0	4.26	mg/kg	1	09/13/21 10:57	8015B		MS

Surrogate: 1-Chlorooctane	145 %	44.3-133				09/13/21 10:57	8015B		MS
Surrogate: 1-Chlorooctadecane	195 %	38.9-142				09/13/21 10:57	8015B		MS

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Debbie Zufelt, Reports Manager

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Project: COGCC Table 915-1
Project Name / Number: Margaret Spaulding (OWP) 12-A
Project Manager: Kyle Siesser

Reported:
09/27/21 15:21

SS04

2109058-04 (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*	<0.500	0.500	0.177	mg/kg	1000	09/13/21 13:44	8260B		MS
Toluene*	<0.500	0.500	0.134	mg/kg	1000	09/13/21 13:44	8260B		MS
Ethylbenzene*	<0.500	0.500	0.0810	mg/kg	1000	09/13/21 13:44	8260B		MS
m+p - Xylene*	<1.00	1.00	0.372	mg/kg	1000	09/13/21 13:44	8260B		MS
o-Xylene*	0.898	0.500	0.140	mg/kg	1000	09/13/21 13:44	8260B		MS
Total Xylenes*	<1.50	1.50	0.500	mg/kg	1000	09/13/21 13:44	8260B		MS
1,3,5-Trimethylbenzene	41.2	0.500	0.0900	mg/kg	1000	09/13/21 13:44	8260B		MS
1,2,4-Trimethylbenzene	<0.500	0.500	0.130	mg/kg	1000	09/13/21 13:44	8260B		MS
Naphthalene*	<0.500	0.500	0.100	mg/kg	1000	09/13/21 13:44	8260B		MS

Surrogate: Dibromofluoromethane	100 %	84.6-114			09/13/21 13:44	8260B		MS
Surrogate: Toluene-d8	96.0 %	90.4-109			09/13/21 13:44	8260B		MS
Surrogate: 4-Bromofluorobenzene	95.9 %	82.5-117			09/13/21 13:44	8260B		MS

Polynuclear Aromatic Compounds by GC/MS

Naphthalene*	0.197	0.040	0.015	mg/kg	40	09/20/21 19:13	8270C		MS
2-Methylnaphthalene*	<0.023	0.040	0.023	mg/kg	40	09/20/21 19:13	8270C		MS
1-Methylnaphthalene	0.069	0.040	0.016	mg/kg	40	09/20/21 19:13	8270C		MS
Acenaphthylene*	<0.020	0.040	0.020	mg/kg	40	09/20/21 19:13	8270C		MS
Acenaphthene*	<0.024	0.040	0.024	mg/kg	40	09/20/21 19:13	8270C		MS
Fluorene*	<0.014	0.040	0.014	mg/kg	40	09/20/21 19:13	8270C		MS
Phenanthrene*	<0.021	0.040	0.021	mg/kg	40	09/20/21 19:13	8270C		MS
Anthracene*	<0.017	0.040	0.017	mg/kg	40	09/20/21 19:13	8270C		MS
Carbazole*	<0.019	0.040	0.019	mg/kg	40	09/20/21 19:13	8270C		MS
Fluoranthene*	<0.019	0.040	0.019	mg/kg	40	09/20/21 19:13	8270C		MS
Pyrene*	0.234	0.040	0.013	mg/kg	40	09/20/21 19:13	8270C		MS
Benzo[a]anthracene*	<0.023	0.040	0.023	mg/kg	40	09/20/21 19:13	8270C		MS
Chrysene*	0.577	0.040	0.017	mg/kg	40	09/20/21 19:13	8270C		MS
Benzo[b]fluoranthene*	<0.019	0.040	0.019	mg/kg	40	09/20/21 19:13	8270C		MS
Benzo[k]fluoranthene*	<0.016	0.040	0.016	mg/kg	40	09/20/21 19:13	8270C		MS
Benzo[a]pyrene*	0.497	0.040	0.018	mg/kg	40	09/20/21 19:13	8270C		MS
Indeno[1,2,3-cd]pyrene*	<0.017	0.040	0.017	mg/kg	40	09/20/21 19:13	8270C		MS

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Debbie Zufelt

Debbie Zufelt, Reports Manager

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Project: COGCC Table 915-1
Project Name / Number: Margaret Spaulding (OWP) 12-A
Project Manager: Kyle Siesser

Reported:
09/27/21 15:21

SS04

2109058-04 (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	09/20/21 19:13	8270C		MS
Benzo[g,h,i]perylene*	0.158	0.040	0.019	mg/kg	40	09/20/21 19:13	8270C		MS
Surrogate: Nitrobenzene-d5			63.1 %	39.6-121		09/20/21 19:13	8270C		MS
Surrogate: 2-Fluorobiphenyl			69.4 %	39.8-134		09/20/21 19:13	8270C		MS
Surrogate: Terphenyl-d14			78.7 %	33.3-136		09/20/21 19:13	8270C		MS

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Durango CO, 81302

Project: COGCC Table 915-1
Project Name / Number: Margaret Spaulding (OWP) 12-A
Project Manager: Kyle Siesser

Reported:
09/27/21 15:21

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B212205 - General Prep - Wet Chem

Blank (B212205-BLK1) Prepared: 09/17/21 Analyzed: 09/23/21

Hexavalent Chromium	ND	0.250	mg/kg							
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LCS (B212205-BS1) Prepared: 09/17/21 Analyzed: 09/23/21

Hexavalent Chromium	1.92	0.250	mg/kg	2.00		96.1	85-115			
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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 B212243 - Paste Extract

Blank (B212243-BLK1) Prepared: 09/21/21 Analyzed: 09/23/21

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

Duplicate (B212243-DUP1) Source: 2109059-03 Prepared: 09/21/21 Analyzed: 09/23/21

Calcium	158	0.200	mg/L		164			3.65	20	
Magnesium	12.1	0.200	mg/L		12.1			0.177	20	
SAR	3.37		No Unit		3.41			1.18	20	
Sodium	163	2.00	mg/L		168			3.20	20	

Batch B212244 - Paste Extract

Duplicate (B212244-DUP1) Source: 2109059-03 Prepared: 09/21/21 Analyzed: 09/23/21

Conductivity	1490		umho/cm @ 25.0°C		1510			1.60	20	
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Batch B212245 - Paste Extract

Duplicate (B212245-DUP1) Source: 2109059-03 Prepared: 09/21/21 Analyzed: 09/23/21

pH	7.28		pH Units		7.23			0.689	20	
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Debbie Zufelt, Reports Manager

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Project: COGCC Table 915-1
Project Name / Number: Margaret Spaulding (OWP) 12-A
Project Manager: Kyle Siesser

Reported:
09/27/21 15:21

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 B212138 - EPA 3050

Blank (B212138-BLK1)

Prepared: 09/10/21 Analyzed: 09/21/21

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 (B212138-BS1)

Prepared: 09/10/21 Analyzed: 09/21/21

Barium	174	5.00	mg/kg dry	200	87.1	80-120
Cadmium	161	5.00	mg/kg dry	200	80.4	80-120
Chromium	177	5.00	mg/kg dry	200	88.4	80-120
Copper	368	5.00	mg/kg dry	400	92.0	80-120
Lead	166	10.0	mg/kg dry	200	83.1	80-120
Nickel	167	5.00	mg/kg dry	200	83.3	80-120
Selenium	739	20.0	mg/kg dry	800	92.3	80-120
Silver	8.96	1.00	mg/kg dry	10.0	89.6	80-120
Zinc	163	10.0	mg/kg dry	200	81.6	80-120

LCS Dup (B212138-BSD1)

Prepared: 09/10/21 Analyzed: 09/21/21

Barium	176	5.00	mg/kg dry	200	87.9	80-120	0.947	20
Cadmium	163	5.00	mg/kg dry	200	81.4	80-120	1.27	20
Chromium	178	5.00	mg/kg dry	200	89.1	80-120	0.754	20
Copper	373	5.00	mg/kg dry	400	93.2	80-120	1.30	20
Lead	168	10.0	mg/kg dry	200	84.0	80-120	1.09	20
Nickel	169	5.00	mg/kg dry	200	84.7	80-120	1.72	20
Selenium	745	20.0	mg/kg dry	800	93.2	80-120	0.892	20
Silver	9.52	1.00	mg/kg dry	10.0	95.2	80-120	6.12	20
Zinc	166	10.0	mg/kg dry	200	82.8	80-120	1.50	20

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Project: COGCC Table 915-1
Project Name / Number: Margaret Spaulding (OWP) 12-A
Project Manager: Kyle Siesser

Reported:
09/27/21 15:21

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 B212142 - EPA 3050M

Blank (B212142-BLK1)

Prepared: 09/10/21 Analyzed: 09/17/21

Arsenic	ND	0.100	mg/kg dry							
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LCS (B212142-BS1)

Prepared: 09/10/21 Analyzed: 09/17/21

Arsenic	5.10	0.100	mg/kg dry	5.00		102	80-120			
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LCS Dup (B212142-BSD1)

Prepared: 09/10/21 Analyzed: 09/17/21

Arsenic	4.63	0.100	mg/kg dry	5.00		92.7	80-120	9.66	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 B212179 - Hot Water Soluble Metals Extract

Blank (B212179-BLK1)

Prepared: 09/15/21 Analyzed: 09/22/21

Boron	ND	1.20	mg/L							
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Duplicate (B212179-DUP1)

Source: 2109058-01 Prepared: 09/15/21 Analyzed: 09/22/21

Boron	0.606	1.20	mg/L		0.654			7.66	200	
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Project: COGCC Table 915-1
Project Name / Number: Margaret Spaulding (OWP) 12-A
Project Manager: Kyle Siesser

Reported:
09/27/21 15:21

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 1091002 - General Prep - Organics

Blank (1091002-BLK1)

Prepared: 09/10/21 Analyzed: 09/11/21

Surrogate: 1-Chlorooctadecane	49.6		mg/kg	50.0		99.3	38.9-142			
Surrogate: 1-Chlorooctane	51.7		mg/kg	50.0		103	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 (1091002-BS1)

Prepared: 09/10/21 Analyzed: 09/11/21

Surrogate: 1-Chlorooctadecane	48.5		mg/kg	50.0		97.0	38.9-142			
Surrogate: 1-Chlorooctane	50.0		mg/kg	50.0		100	44.3-133			
DRO >C10-C28	198	10.0	mg/kg	200		99.0	79.3-136			
GRO C6-C10	186	10.0	mg/kg	200		93.1	83.4-129			
Total TPH C6-C28	384	10.0	mg/kg	400		96.1	85.3-130			

LCS Dup (1091002-BSD1)

Prepared: 09/10/21 Analyzed: 09/11/21

Surrogate: 1-Chlorooctadecane	52.6		mg/kg	50.0		105	38.9-142			
Surrogate: 1-Chlorooctane	54.6		mg/kg	50.0		109	44.3-133			
DRO >C10-C28	214	10.0	mg/kg	200		107	79.3-136	7.90	12.1	
GRO C6-C10	197	10.0	mg/kg	200		98.5	83.4-129	5.65	12.6	
Total TPH C6-C28	411	10.0	mg/kg	400		103	85.3-130	6.82	11.6	

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Durango CO, 81302

Project: COGCC Table 915-1
Project Name / Number: Margaret Spaulding (OWP) 12-A
Project Manager: Kyle Siesser

Reported:
09/27/21 15:21

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 1090907 - Volatiles

Blank (1090907-BLK1)

Prepared: 09/09/21 Analyzed: 09/10/21

1,2,4-Trimethylbenzene	ND	0.0250	mg/kg						
1,3,5-Trimethylbenzene	ND	0.0250	mg/kg						
Surrogate: 4-Bromofluorobenzene	1.05		mg/kg	1.25		83.7	82.5-117		
Benzene	ND	0.0250	mg/kg						
Surrogate: Dibromofluoromethane	1.28		mg/kg	1.25		103	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	1.24		mg/kg	1.25		98.9	90.4-109		
Total Xylenes	ND	0.0750	mg/kg						

LCS (1090907-BS1)

Prepared: 09/09/21 Analyzed: 09/10/21

1,2,4-Trimethylbenzene	0.469	0.0250	mg/kg	0.500		93.9	62.4-140		
1,3,5-Trimethylbenzene	0.473	0.0250	mg/kg	0.500		94.5	64.4-138		
Surrogate: 4-Bromofluorobenzene	1.17		mg/kg	1.25		93.3	82.5-117		
Benzene	0.495	0.0250	mg/kg	0.500		99.0	73-130		
Surrogate: Dibromofluoromethane	1.25		mg/kg	1.25		100	84.6-114		
Ethylbenzene	0.476	0.0250	mg/kg	0.500		95.3	75.4-127		
m+p - Xylene	0.966	0.0500	mg/kg	1.00		96.6	71.8-133		
Naphthalene	0.423	0.0250	mg/kg	0.500		84.7	28.7-158		
o-Xylene	0.465	0.0250	mg/kg	0.500		92.9	78.6-125		
Toluene	0.484	0.0250	mg/kg	0.500		96.9	79-122		
Surrogate: Toluene-d8	1.23		mg/kg	1.25		98.1	90.4-109		
Total Xylenes	1.43	0.0750	mg/kg	1.50		95.4	74.6-130		

LCS Dup (1090907-BSD1)

Prepared: 09/09/21 Analyzed: 09/10/21

1,2,4-Trimethylbenzene	0.461	0.0250	mg/kg	0.500		92.3	62.4-140	1.74	38.2
1,3,5-Trimethylbenzene	0.462	0.0250	mg/kg	0.500		92.4	64.4-138	2.23	39.1
Surrogate: 4-Bromofluorobenzene	1.20		mg/kg	1.25		96.4	82.5-117		
Benzene	0.508	0.0250	mg/kg	0.500		102	73-130	2.64	17.1
Surrogate: Dibromofluoromethane	1.25		mg/kg	1.25		99.8	84.6-114		
Ethylbenzene	0.482	0.0250	mg/kg	0.500		96.5	75.4-127	1.23	16.5
m+p - Xylene	0.958	0.0500	mg/kg	1.00		95.8	71.8-133	0.859	19.1
Naphthalene	0.406	0.0250	mg/kg	0.500		81.2	28.7-158	4.20	64
o-Xylene	0.460	0.0250	mg/kg	0.500		92.1	78.6-125	0.936	13.2
Toluene	0.497	0.0250	mg/kg	0.500		99.4	79-122	2.64	18.3

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PO Box 1653
Durango CO, 81302

Project: COGCC Table 915-1
Project Name / Number: Margaret Spaulding (OWP) 12-A
Project Manager: Kyle Siesser

Reported:
09/27/21 15:21

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 1090907 - Volatiles (Continued)

LCS Dup (1090907-BSD1) (Continued)

Prepared: 09/09/21 Analyzed: 09/10/21

Surrogate: Toluene-d8	1.22		mg/kg	1.25		97.4	90.4-109			
Total Xylenes	1.42	0.0750	mg/kg	1.50		94.6	74.6-130	0.884	16.5	

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Project: COGCC Table 915-1
Project Name / Number: Margaret Spaulding (OWP) 12-A
Project Manager: Kyle Siesser

Reported:
09/27/21 15:21

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 1090904 - SW846-3510**Blank (1090904-BLK1)**

Prepared: 09/09/21 Analyzed: 09/16/21

1-Methylnaphthalene	ND	0.040	mg/kg							
Surrogate: 2-Fluorobiphenyl	1.53		mg/kg	2.00		76.7	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	1.48		mg/kg	2.00		74.2	39.6-121			
Phenanthrene	ND	0.040	mg/kg							
Pyrene	ND	0.040	mg/kg							
Surrogate: Terphenyl-dl4	1.57		mg/kg	2.00		78.3	33.3-136			

LCS (1090904-BS1)

Prepared: 09/09/21 Analyzed: 09/16/21

1-Methylnaphthalene	0.301	0.040	mg/kg	0.400		75.2	57.6-108			
Surrogate: 2-Fluorobiphenyl	1.59		mg/kg	2.00		79.6	39.8-134			
2-Methylnaphthalene	0.319	0.040	mg/kg	0.400		79.9	59-106			
Acenaphthene	0.326	0.040	mg/kg	0.400		81.6	60.9-105			
Acenaphthylene	0.328	0.040	mg/kg	0.400		82.1	57.4-107			
Anthracene	0.313	0.040	mg/kg	0.400		78.1	60.8-105			
Benzo[a]anthracene	0.327	0.040	mg/kg	0.400		81.8	56.1-121			
Benzo[a]pyrene	0.283	0.040	mg/kg	0.400		70.8	56.7-115			
Benzo[b]fluoranthene	0.327	0.040	mg/kg	0.400		81.8	45.4-128			
Benzo[g,h,i]perylene	0.313	0.040	mg/kg	0.400		78.3	56.5-107			
Benzo[k]fluoranthene	0.340	0.040	mg/kg	0.400		85.0	49.6-119			
Carbazole	0.332	0.040	mg/kg	0.400		82.9	59.7-107			
Chrysene	0.317	0.040	mg/kg	0.400		79.3	12.2-190			
Dibenz[a,h]anthracene	0.305	0.040	mg/kg	0.400		76.2	59.1-111			
Fluoranthene	0.309	0.040	mg/kg	0.400		77.2	60.6-111			

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Project: COGCC Table 915-1
Project Name / Number: Margaret Spaulding (OWP) 12-A
Project Manager: Kyle Siesser

Reported:
09/27/21 15:21

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 1090904 - SW846-3510 (Continued)

LCS (1090904-BS1) (Continued)

Prepared: 09/09/21 Analyzed: 09/16/21

Fluorene	0.307	0.040	mg/kg	0.400		76.8	59.3-108			
Indeno[1,2,3-cd]pyrene	0.311	0.040	mg/kg	0.400		77.8	53.4-116			
Naphthalene	0.308	0.040	mg/kg	0.400		76.9	56.5-106			
Surrogate: Nitrobenzene-d5	1.37		mg/kg	2.00		68.5	39.6-121			
Phenanthrene	0.320	0.040	mg/kg	0.400		79.9	59.9-107			
Pyrene	0.305	0.040	mg/kg	0.400		76.3	51.5-122			
Surrogate: Terphenyl-d14	1.56		mg/kg	2.00		78.2	33.3-136			

LCS Dup (1090904-BSD1)

Prepared: 09/09/21 Analyzed: 09/16/21

1-Methylnaphthalene	0.302	0.040	mg/kg	0.400		75.4	57.6-108	0.236	6.22	
Surrogate: 2-Fluorobiphenyl	1.58		mg/kg	2.00		79.0	39.8-134			
2-Methylnaphthalene	0.325	0.040	mg/kg	0.400		81.2	59-106	1.64	6.23	
Acenaphthene	0.318	0.040	mg/kg	0.400		79.6	60.9-105	2.50	8.18	
Acenaphthylene	0.321	0.040	mg/kg	0.400		80.2	57.4-107	2.29	5	
Anthracene	0.309	0.040	mg/kg	0.400		77.3	60.8-105	1.04	3.68	
Benzo[a]anthracene	0.314	0.040	mg/kg	0.400		78.6	56.1-121	3.90	9.01	
Benzo[a]pyrene	0.282	0.040	mg/kg	0.400		70.4	56.7-115	0.584	4.92	
Benzo[b]fluoranthene	0.347	0.040	mg/kg	0.400		86.8	45.4-128	5.95	7.63	
Benzo[g,h,i]perylene	0.304	0.040	mg/kg	0.400		76.0	56.5-107	2.97	12.5	
Benzo[k]fluoranthene	0.316	0.040	mg/kg	0.400		79.1	49.6-119	7.21	10.6	
Carbazole	0.324	0.040	mg/kg	0.400		81.0	59.7-107	2.36	8.65	
Chrysene	0.311	0.040	mg/kg	0.400		77.9	12.2-190	1.85	21.8	
Dibenz[a,h]anthracene	0.298	0.040	mg/kg	0.400		74.5	59.1-111	2.34	11.6	
Fluoranthene	0.304	0.040	mg/kg	0.400		76.0	60.6-111	1.65	7.54	
Fluorene	0.323	0.040	mg/kg	0.400		80.6	59.3-108	4.89	5.49	
Indeno[1,2,3-cd]pyrene	0.311	0.040	mg/kg	0.400		77.8	53.4-116	0.0353	22.3	
Naphthalene	0.310	0.040	mg/kg	0.400		77.4	56.5-106	0.667	4.56	
Surrogate: Nitrobenzene-d5	1.47		mg/kg	2.00		73.5	39.6-121			
Phenanthrene	0.311	0.040	mg/kg	0.400		77.7	59.9-107	2.83	5.21	
Pyrene	0.318	0.040	mg/kg	0.400		79.4	51.5-122	4.02	10.6	
Surrogate: Terphenyl-d14	1.67		mg/kg	2.00		83.7	33.3-136			

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Durango CO, 81302

Project: COGCC Table 915-1
Project Name / Number: Margaret Spaulding (OWP) 12-A
Project Manager: Kyle Siesser

Reported:
09/27/21 15:21

Notes and Definitions

SD2	Serial Dilution RPD exceeded the laboratory control limit. All other QC for analyte acceptable.
S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
M5	Sample was chosen for matrix spike. Spike recovery did not meet laboratory acceptance criteria, possible matrix interference in sample.
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
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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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(970) 247-4220
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75 Suttle St Durango, CO 81303

Company Name: Cottonwood Consulting LLC		P.O. #:		Bill to (if different):		ANALYSIS REQUEST										
Project Manager: Kyle Siesser		Company:														
Address: PO Box 1653		Attn:														
City: Durango		Address:														
State: CO		City:														
Zip: 81302		State:														
Phone #: 970-764-7356		Zip:														
Email: ksiesser@cottonwoodconsulting.com		Phone #:														
Additional Report To:		Fax or Email:														
Project Name: Margaret Spaulding Cowp 1A-A																
Project Number:																
Sampler Name (Print): Emma Miller / Kyle Siesser																
FOR LAB USE ONLY																
Lab I.D.	Sample Name or Location	Collected		Matrix (check one)		# of containers										
		Date	Time	GROUNDWATER	SURFACEWATER	WASTEWATER	PRODUCEDWATER	SOIL	OTHER :	No preservation (general)	HNO ₃	HCl	H ₂ SO ₄	Other:	Other:	
2109-058-01	SS01	9/1/21	1140					X		3						X
-02	SS02		1135					X		3						X
-03	SS03		1130					X		3						X
-04	SS04		1125					X		3						X
Relinquished By: [Signature]		Date: 9/13/21	Time: 1115	Received By: [Signature]												
Relinquished By:		Date:	Time:	Received By:												
Relinquished By:		Date:	Time:	Received By:												
Delivered By: (Circle One)		Temperature at receipt:		CHECKED BY:												
Sampler: UPS - FedEx - Kangaroo - Other:		5.215.1°C		[Signature]												#3 Laser On Ice

* Chain of Custody must be signed in "Relinquished By:" as an acceptance of services and all applicable charges.