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13 July 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 06/24/21 15:45. 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.

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.



Cottonwood Consulting
PO Box 1653
Durango CO, 81302

Project: COGCC Table 915-1
Project Name / Number: Ferguson No 1 (OWP) F35-1
Project Manager: Jake Harter

Reported:
07/13/21 13:22

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
SS01	2106227-01	Solid	06/24/21 10:05	06/24/21 15:45	
SS02	2106227-02	Solid	06/24/21 10:25	06/24/21 15:45	
SS03	2106227-03	Solid	06/24/21 10:40	06/24/21 15:45	
SS04	2106227-04	Solid	06/24/21 11:00	06/24/21 15:45	

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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: Ferguson No 1 (OWP) F35-1 Project Manager: Jake Harter	Reported: 07/13/21 13:22
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SS01

2106227-01 (Soil)

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

Calcium	38.7	0.100	0.058	mg/L	1	07/08/21 15:59	EPA200.7		AES
Conductivity	915			umho/cm @ 25.0°C	1	07/07/21 10:50	ASA#9 10-3.3		VJW
Magnesium	8.94	0.100	0.065	mg/L	1	07/08/21 15:59	EPA200.7		AES
pH	7.66			pH Units	1	07/06/21 13:10	ASA#9 10-3.2		VJW
SAR	5.80			No Unit	1	07/08/21 15:59	Calculation		AES
Sodium	154	1.00	0.079	mg/L	1	07/08/21 15:59	EPA200.7		AES

Total Metals by ICP

Barium	201	5.00	0.390	mg/kg dry	100	07/07/21 12:57	6010B		AES
Cadmium	<5.00	5.00	1.10	mg/kg dry	100	07/07/21 12:57	6010B		AES
Chromium	11.9	5.00	0.400	mg/kg dry	100	07/07/21 12:57	6010B		AES
Copper	15.4	5.00	2.39	mg/kg dry	100	07/07/21 12:57	6010B		AES
Lead	<10.0	10.0	0.906	mg/kg dry	100	07/07/21 12:57	6010B		AES
Nickel	11.3	5.00	0.874	mg/kg dry	100	07/07/21 12:57	6010B		AES
Selenium	<20.0	20.0	4.70	mg/kg dry	100	07/07/21 12:57	6010B		AES
Silver	<1.00	1.00	0.688	mg/kg dry	100	07/07/21 12:57	6010B		AES
Zinc	31.1	10.0	1.71	mg/kg dry	100	07/07/21 12:57	6010B		AES

Total Metals by ICPMS

Arsenic	3.08	1.00	0.0950	mg/kg dry	1000	07/06/21 16:21	6020A		AES
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Hot Water Extractable

Boron	1.29	1.20	0.568	mg/L	4	07/07/21 16:10	EPA200.7		AES
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Subcontracted -- Cardinal Laboratories

Petroleum Hydrocarbons by GC FID

S-06

GRO C6-C10*	333	50.0	9.19	mg/kg	5	06/30/21 21:19	8015B		MS
DRO >C10-C28*	3280	50.0	7.27	mg/kg	5	06/30/21 21:19	8015B		MS
EXT DRO >C28-C36	876	50.0	7.27	mg/kg	5	06/30/21 21:19	8015B		MS

Surrogate: 1-Chlorooctane			99.4 %	44.3-133		06/30/21 21:19	8015B		MS
Surrogate: 1-Chlorooctadecane			143 %	38.9-142		06/30/21 21:19	8015B		MS

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Debbie Zufelt

Debbie Zufelt, Reports Manager

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SS01

2106227-01 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories

VOLATILES BY GC/MS

Benzene*	<0.100	0.100	0.0354	mg/kg	200	06/30/21 18:33	8260B		MS
Toluene*	<0.100	0.100	0.0268	mg/kg	200	06/30/21 18:33	8260B		MS
Ethylbenzene*	3.00	0.100	0.0162	mg/kg	200	06/30/21 18:33	8260B	QM-07, QR-03	MS
m+p - Xylene*	<0.200	0.200	0.0744	mg/kg	200	06/30/21 18:33	8260B		MS
o-Xylene*	0.104	0.100	0.0280	mg/kg	200	06/30/21 18:33	8260B		MS
Total Xylenes*	0.180	0.100	0.100	mg/kg	200	06/30/21 18:33	8260B		MS
1,3,5-Trimethylbenzene	<0.100	0.100	0.0180	mg/kg	200	06/30/21 18:33	8260B		MS
1,2,4-Trimethylbenzene	<0.100	0.100	0.0260	mg/kg	200	06/30/21 18:33	8260B		MS
Naphthalene*	4.83	0.100	0.0200	mg/kg	200	06/30/21 18:33	8260B	QM-07	MS
Surrogate: Dibromofluoromethane			122 %	84.6-114		06/30/21 18:33	8260B	S-04	MS
Surrogate: Toluene-d8			91.6 %	90.4-109		06/30/21 18:33	8260B		MS
Surrogate: 4-Bromofluorobenzene			150 %	82.5-117		06/30/21 18:33	8260B	S-04	MS

Polynuclear Aromatic Compounds by GC/MS

Naphthalene*	2.79	0.400	0.153	mg/kg	400	07/09/21 13:18	8270C		MS
2-Methylnaphthalene*	10.1	0.400	0.226	mg/kg	400	07/09/21 13:18	8270C		MS
1-Methylnaphthalene	6.95	0.400	0.161	mg/kg	400	07/09/21 13:18	8270C		MS
Acenaphthylene*	<0.196	0.400	0.196	mg/kg	400	07/09/21 13:18	8270C		MS
Acenaphthene*	<0.235	0.400	0.235	mg/kg	400	07/09/21 13:18	8270C		MS
Fluorene*	1.46	0.400	0.142	mg/kg	400	07/09/21 13:18	8270C		MS
Phenanthrene*	2.29	0.400	0.214	mg/kg	400	07/09/21 13:18	8270C		MS
Anthracene*	<0.172	0.400	0.172	mg/kg	400	07/09/21 13:18	8270C		MS
Carbazole*	<0.190	0.400	0.190	mg/kg	400	07/09/21 13:18	8270C		MS
Fluoranthene*	<0.185	0.400	0.185	mg/kg	400	07/09/21 13:18	8270C		MS
Pyrene*	<0.132	0.400	0.132	mg/kg	400	07/09/21 13:18	8270C		MS
Benzo[a]anthracene*	<0.230	0.400	0.230	mg/kg	400	07/09/21 13:18	8270C		MS
Chrysene*	0.447	0.400	0.172	mg/kg	400	07/09/21 13:18	8270C		MS
Benzo[b]fluoranthene*	<0.192	0.400	0.192	mg/kg	400	07/09/21 13:18	8270C		MS
Benzo[k]fluoranthene*	<0.157	0.400	0.157	mg/kg	400	07/09/21 13:18	8270C		MS
Benzo[a]pyrene*	<0.182	0.400	0.182	mg/kg	400	07/09/21 13:18	8270C		MS

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Debbie Zufelt

Debbie Zufelt, Reports Manager

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: Ferguson No 1 (OWP) F35-1 Project Manager: Jake Harter	Reported: 07/13/21 13:22
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SS01

2106227-01 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories

Polynuclear Aromatic Compounds by GC/MS

Indeno[1,2,3-cd]pyrene*	<0.168	0.400	0.168	mg/kg	400	07/09/21 13:18	8270C		MS
Dibenz[a,h]anthracene*	<0.186	0.400	0.186	mg/kg	400	07/09/21 13:18	8270C		MS
Benzo[g,h,i]perylene*	<0.186	0.400	0.186	mg/kg	400	07/09/21 13:18	8270C		MS
<i>Surrogate: Nitrobenzene-d5</i>			70.8 %	39.6-121		07/09/21 13:18	8270C		MS
<i>Surrogate: 2-Fluorobiphenyl</i>			59.6 %	39.8-134		07/09/21 13:18	8270C		MS
<i>Surrogate: Terphenyl-d14</i>			59.8 %	33.3-136		07/09/21 13:18	8270C		MS

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SS02

2106227-02 (Soil)

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

Calcium	36.9	0.100	0.058	mg/L	1	07/08/21 16:02	EPA200.7		AES
Conductivity	553			umho/cm @ 25.0°C	1	07/07/21 10:50	ASA#9 10-3.3		VJW
Magnesium	11.1	0.100	0.065	mg/L	1	07/08/21 16:03	EPA200.7		AES
pH	7.60			pH Units	1	07/06/21 13:10	ASA#9 10-3.2		VJW
SAR	2.58			No Unit	1	07/08/21 16:02	Calculation		AES
Sodium	69.5	1.00	0.079	mg/L	1	07/08/21 16:02	EPA200.7		AES

Total Metals by ICP

Barium	180	5.00	0.390	mg/kg dry	100	07/07/21 13:14	6010B		AES
Cadmium	<5.00	5.00	1.10	mg/kg dry	100	07/07/21 13:14	6010B		AES
Chromium	13.9	5.00	0.400	mg/kg dry	100	07/07/21 13:14	6010B		AES
Copper	21.5	5.00	2.39	mg/kg dry	100	07/07/21 13:14	6010B		AES
Lead	5150	100	9.06	mg/kg dry	1000	07/08/21 15:44	6010B		AES
Nickel	11.3	5.00	0.874	mg/kg dry	100	07/07/21 13:14	6010B		AES
Selenium	<20.0	20.0	4.70	mg/kg dry	100	07/07/21 13:14	6010B		AES
Silver	<1.00	1.00	0.688	mg/kg dry	100	07/07/21 13:14	6010B		AES
Zinc	32.9	10.0	1.71	mg/kg dry	100	07/07/21 13:14	6010B		AES

Total Metals by ICPMS

Arsenic	3.86	1.00	0.0950	mg/kg dry	1000	07/06/21 16:28	6020A		AES
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Hot Water Extractable

Boron	<1.20	1.20	0.568	mg/L	4	07/07/21 16:15	EPA200.7		AES
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Subcontracted -- Cardinal Laboratories

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	864	10.0	1.84	mg/kg	1	06/30/21 18:20	8015B		MS
DRO >C10-C28*	<10.0	10.0	1.45	mg/kg	1	06/30/21 18:20	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	1.45	mg/kg	1	06/30/21 18:20	8015B		MS

Surrogate: 1-Chlorooctane	90.6 %	44.3-133				06/30/21 18:20	8015B		MS
Surrogate: 1-Chlorooctadecane	90.9 %	38.9-142				06/30/21 18:20	8015B		MS

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Debbie Zufelt, Reports Manager

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SS02

2106227-02 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories

VOLATILES BY GC/MS

Benzene*	0.300	0.0250	0.00885	mg/kg	50	06/30/21 19:00	8260B		MS
Toluene*	27.2	1.00	0.268	mg/kg	2000	07/01/21 13:45	8260B		MS
Ethylbenzene*	<0.0250	0.0250	0.00405	mg/kg	50	06/30/21 19:00	8260B		MS
m+p - Xylene*	<0.0500	0.0500	0.0186	mg/kg	50	06/30/21 19:00	8260B		MS
o-Xylene*	<0.0250	0.0250	0.00700	mg/kg	50	06/30/21 19:00	8260B		MS
Total Xylenes*	<0.0250	0.0250	0.0250	mg/kg	50	06/30/21 19:00	8260B		MS
1,3,5-Trimethylbenzene	<0.0250	0.0250	0.00450	mg/kg	50	06/30/21 19:00	8260B		MS
1,2,4-Trimethylbenzene	<0.0250	0.0250	0.00650	mg/kg	50	06/30/21 19:00	8260B		MS
Naphthalene*	<0.0250	0.0250	0.00500	mg/kg	50	06/30/21 19:00	8260B		MS
Surrogate: Dibromofluoromethane			104 %	84.6-114		06/30/21 19:00	8260B		MS
Surrogate: Toluene-d8			96.5 %	90.4-109		06/30/21 19:00	8260B		MS
Surrogate: 4-Bromofluorobenzene			99.6 %	82.5-117		06/30/21 19:00	8260B		MS

Polynuclear Aromatic Compounds by GC/MS

Naphthalene*	<0.015	0.040	0.015	mg/kg	40	07/09/21 13:47	8270C		MS
2-Methylnaphthalene*	<0.023	0.040	0.023	mg/kg	40	07/09/21 13:47	8270C		MS
1-Methylnaphthalene	<0.016	0.040	0.016	mg/kg	40	07/09/21 13:47	8270C		MS
Acenaphthylene*	<0.020	0.040	0.020	mg/kg	40	07/09/21 13:47	8270C		MS
Acenaphthene*	<0.024	0.040	0.024	mg/kg	40	07/09/21 13:47	8270C		MS
Fluorene*	<0.014	0.040	0.014	mg/kg	40	07/09/21 13:47	8270C		MS
Phenanthrene*	<0.021	0.040	0.021	mg/kg	40	07/09/21 13:47	8270C		MS
Anthracene*	<0.017	0.040	0.017	mg/kg	40	07/09/21 13:47	8270C		MS
Carbazole*	<0.019	0.040	0.019	mg/kg	40	07/09/21 13:47	8270C		MS
Fluoranthene*	<0.019	0.040	0.019	mg/kg	40	07/09/21 13:47	8270C		MS
Pyrene*	<0.013	0.040	0.013	mg/kg	40	07/09/21 13:47	8270C		MS
Benzo[a]anthracene*	<0.023	0.040	0.023	mg/kg	40	07/09/21 13:47	8270C		MS
Chrysene*	<0.017	0.040	0.017	mg/kg	40	07/09/21 13:47	8270C		MS
Benzo[b]fluoranthene*	<0.019	0.040	0.019	mg/kg	40	07/09/21 13:47	8270C		MS
Benzo[k]fluoranthene*	<0.016	0.040	0.016	mg/kg	40	07/09/21 13:47	8270C		MS
Benzo[a]pyrene*	<0.018	0.040	0.018	mg/kg	40	07/09/21 13:47	8270C		MS
Indeno[1,2,3-cd]pyrene*	<0.017	0.040	0.017	mg/kg	40	07/09/21 13:47	8270C		MS

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Debbie Zufelt

Debbie Zufelt, Reports Manager

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: Ferguson No 1 (OWP) F35-1 Project Manager: Jake Harter	Reported: 07/13/21 13:22
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SS02

2106227-02 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories

Polynuclear Aromatic Compounds by GC/MS

Dibenz[a,h]anthracene*	<0.019	0.040	0.019	mg/kg	40	07/09/21 13:47	8270C		MS
Benzo[g,h,i]perylene*	<0.019	0.040	0.019	mg/kg	40	07/09/21 13:47	8270C		MS
Surrogate: Nitrobenzene-d5			67.6 %	39.6-121		07/09/21 13:47	8270C		MS
Surrogate: 2-Fluorobiphenyl			72.4 %	39.8-134		07/09/21 13:47	8270C		MS
Surrogate: Terphenyl-d14			79.3 %	33.3-136		07/09/21 13:47	8270C		MS

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SS03

2106227-03 (Soil)

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

Calcium	25.3	0.100	0.058	mg/L	1	07/08/21 16:04	EPA200.7		AES
Conductivity	544			umho/cm @ 25.0°C	1	07/07/21 10:50	ASA#9 10-3.3		VJW
Magnesium	9.34	0.100	0.065	mg/L	1	07/08/21 16:04	EPA200.7		AES
pH	7.79			pH Units	1	07/06/21 13:10	ASA#9 10-3.2		VJW
SAR	3.28			No Unit	1	07/08/21 16:04	Calculation		AES
Sodium	75.9	1.00	0.079	mg/L	1	07/08/21 16:04	EPA200.7		AES

Total Metals by ICP

Barium	185	5.00	0.390	mg/kg dry	100	07/07/21 13:19	6010B		AES
Cadmium	<5.00	5.00	1.10	mg/kg dry	100	07/07/21 13:19	6010B		AES
Chromium	11.3	5.00	0.400	mg/kg dry	100	07/07/21 13:19	6010B		AES
Copper	15.2	5.00	2.39	mg/kg dry	100	07/07/21 13:19	6010B		AES
Lead	<10.0	10.0	0.906	mg/kg dry	100	07/07/21 13:19	6010B		AES
Nickel	10.5	5.00	0.874	mg/kg dry	100	07/07/21 13:19	6010B		AES
Selenium	<20.0	20.0	4.70	mg/kg dry	100	07/07/21 13:18	6010B		AES
Silver	<1.00	1.00	0.688	mg/kg dry	100	07/07/21 13:18	6010B		AES
Zinc	29.4	10.0	1.71	mg/kg dry	100	07/07/21 13:19	6010B		AES

Total Metals by ICPMS

Arsenic	3.14	1.00	0.0950	mg/kg dry	1000	07/06/21 16:45	6020A		AES
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Hot Water Extractable

Boron	<1.20	1.20	0.568	mg/L	4	07/07/21 16:17	EPA200.7		AES
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Subcontracted -- Cardinal Laboratories

Petroleum Hydrocarbons by GC FID

S-06

GRO C6-C10*	6380	50.0	9.19	mg/kg	5	06/30/21 21:44	8015B		MS
DRO >C10-C28*	29400	50.0	7.27	mg/kg	5	06/30/21 21:44	8015B		MS
EXT DRO >C28-C36	6360	50.0	7.27	mg/kg	5	06/30/21 21:44	8015B		MS

Surrogate: 1-Chlorooctane			379 %	44.3-133		06/30/21 21:44	8015B		MS
Surrogate: 1-Chlorooctadecane			846 %	38.9-142		06/30/21 21:44	8015B		MS

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Debbie Zufelt

Debbie Zufelt, Reports Manager

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: Ferguson No 1 (OWP) F35-1 Project Manager: Jake Harter	Reported: 07/13/21 13:22
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SS03

2106227-03 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories

VOLATILES BY GC/MS

Benzene*	3.44	1.00	0.354	mg/kg	2000	07/01/21 14:37	8260B		MS
Toluene*	57.0	1.00	0.268	mg/kg	2000	07/01/21 14:37	8260B		MS
Ethylbenzene*	29.2	1.00	0.162	mg/kg	2000	07/01/21 14:37	8260B		MS
m+p - Xylene*	204	2.00	0.744	mg/kg	2000	07/01/21 14:37	8260B		MS
o-Xylene*	68.9	1.00	0.280	mg/kg	2000	07/01/21 14:37	8260B		MS
Total Xylenes*	273	1.00	1.00	mg/kg	2000	07/01/21 14:37	8260B		MS
1,3,5-Trimethylbenzene	41.6	1.00	0.180	mg/kg	2000	07/01/21 14:37	8260B		MS
1,2,4-Trimethylbenzene	138	1.00	0.260	mg/kg	2000	07/01/21 14:37	8260B		MS
Naphthalene*	26.0	1.00	0.200	mg/kg	2000	07/01/21 14:37	8260B		MS
Surrogate: Dibromofluoromethane			105 %	84.6-114		07/01/21 14:37	8260B		MS
Surrogate: Toluene-d8			101 %	90.4-109		07/01/21 14:37	8260B		MS
Surrogate: 4-Bromofluorobenzene			125 %	82.5-117		07/01/21 14:37	8260B	S-04	MS

Polynuclear Aromatic Compounds by GC/MS

Naphthalene*	19.0	0.400	0.153	mg/kg	400	07/09/21 16:13	8270C		MS
2-Methylnaphthalene*	55.1	0.400	0.226	mg/kg	400	07/09/21 16:13	8270C		MS
1-Methylnaphthalene	32.9	0.400	0.161	mg/kg	400	07/09/21 16:13	8270C		MS
Acenaphthylene*	0.370	0.400	0.196	mg/kg	400	07/09/21 16:13	8270C	J	MS
Acenaphthene*	0.603	0.400	0.235	mg/kg	400	07/09/21 16:13	8270C		MS
Fluorene*	6.60	0.400	0.142	mg/kg	400	07/09/21 16:13	8270C		MS
Phenanthrene*	9.47	0.400	0.214	mg/kg	400	07/09/21 16:13	8270C		MS
Anthracene*	3.13	0.400	0.172	mg/kg	400	07/09/21 16:13	8270C		MS
Carbazole*	<0.190	0.400	0.190	mg/kg	400	07/09/21 16:13	8270C		MS
Fluoranthene*	0.426	0.400	0.185	mg/kg	400	07/09/21 16:13	8270C		MS
Pyrene*	0.989	0.400	0.132	mg/kg	400	07/09/21 16:13	8270C		MS
Benzo[a]anthracene*	<0.230	0.400	0.230	mg/kg	400	07/09/21 16:13	8270C		MS
Chrysene*	1.56	0.400	0.172	mg/kg	400	07/09/21 16:13	8270C		MS
Benzo[b]fluoranthene*	0.200	0.400	0.192	mg/kg	400	07/09/21 16:13	8270C	J	MS
Benzo[k]fluoranthene*	<0.157	0.400	0.157	mg/kg	400	07/09/21 16:13	8270C		MS
Benzo[a]pyrene*	<0.182	0.400	0.182	mg/kg	400	07/09/21 16:13	8270C		MS
Indeno[1,2,3-cd]pyrene*	<0.168	0.400	0.168	mg/kg	400	07/09/21 16:13	8270C		MS

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Debbie Zufelt

Debbie Zufelt, Reports Manager

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: Ferguson No 1 (OWP) F35-1 Project Manager: Jake Harter	Reported: 07/13/21 13:22
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SS03

2106227-03 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories

Polynuclear Aromatic Compounds by GC/MS

Dibenz[a,h]anthracene*	<0.186	0.400	0.186	mg/kg	400	07/09/21 16:13	8270C		MS
Benzo[g,h,i]perylene*	<0.186	0.400	0.186	mg/kg	400	07/09/21 16:13	8270C		MS
Surrogate: Nitrobenzene-d5			42.0 %	39.6-121		07/09/21 16:13	8270C		MS
Surrogate: 2-Fluorobiphenyl			68.0 %	39.8-134		07/09/21 16:13	8270C		MS
Surrogate: Terphenyl-d14			73.4 %	33.3-136		07/09/21 16:13	8270C		MS

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: Ferguson No 1 (OWP) F35-1 Project Manager: Jake Harter	Reported: 07/13/21 13:22
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SS04

2106227-04 (Soil)

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

Calcium	24.9	0.200	0.116	mg/L	2	07/08/21 16:06	EPA200.7		AES
Conductivity	2260			umho/cm @ 25.0°C	1	07/07/21 10:50	ASA#9 10-3.3		VJW
Magnesium	4.45	0.200	0.131	mg/L	2	07/08/21 16:06	EPA200.7		AES
pH	6.00			pH Units	1	07/06/21 13:10	ASA#9 10-3.2		VJW
SAR	15.8			No Unit	1	07/08/21 16:06	Calculation		AES
Sodium	325	2.00	0.159	mg/L	2	07/08/21 16:06	EPA200.7		AES

Total Metals by ICP

Barium	148	5.00	0.390	mg/kg dry	100	07/07/21 13:23	6010B		AES
Cadmium	<5.00	5.00	1.10	mg/kg dry	100	07/07/21 13:23	6010B		AES
Chromium	12.6	5.00	0.400	mg/kg dry	100	07/07/21 13:23	6010B		AES
Copper	18.6	5.00	2.39	mg/kg dry	100	07/07/21 13:23	6010B		AES
Lead	13.9	10.0	0.906	mg/kg dry	100	07/07/21 13:23	6010B		AES
Nickel	13.4	5.00	0.874	mg/kg dry	100	07/07/21 13:23	6010B		AES
Selenium	<20.0	20.0	4.70	mg/kg dry	100	07/07/21 13:23	6010B		AES
Silver	<1.00	1.00	0.688	mg/kg dry	100	07/07/21 13:23	6010B		AES
Zinc	45.7	10.0	1.71	mg/kg dry	100	07/07/21 13:23	6010B		AES

Total Metals by ICPMS

Arsenic	2.62	1.00	0.0950	mg/kg dry	1000	07/06/21 16:48	6020A		AES
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Hot Water Extractable

Boron	<1.20	1.20	0.568	mg/L	4	07/07/21 16:24	EPA200.7		AES
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Subcontracted -- Cardinal Laboratories

Petroleum Hydrocarbons by GC FID

S-06

GRO C6-C10*	543	50.0	9.19	mg/kg	5	06/30/21 22:09	8015B		MS
DRO >C10-C28*	3710	50.0	7.27	mg/kg	5	06/30/21 22:09	8015B		MS
EXT DRO >C28-C36	847	50.0	7.27	mg/kg	5	06/30/21 22:09	8015B		MS

Surrogate: 1-Chlorooctane			120 %	44.3-133		06/30/21 22:09	8015B		MS
Surrogate: 1-Chlorooctadecane			170 %	38.9-142		06/30/21 22:09	8015B		MS

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: Ferguson No 1 (OWP) F35-1 Project Manager: Jake Harter	Reported: 07/13/21 13:22
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SS04

2106227-04 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories

VOLATILES BY GC/MS

Benzene*	<0.0250	0.0250	0.00885	mg/kg	50	06/30/21 19:50	8260B		MS
Toluene*	0.0435	0.0250	0.00670	mg/kg	50	06/30/21 19:50	8260B		MS
Ethylbenzene*	0.714	0.0250	0.00405	mg/kg	50	06/30/21 19:50	8260B		MS
m+p - Xylene*	8.21	0.0500	0.0186	mg/kg	50	06/30/21 19:50	8260B		MS
o-Xylene*	2.73	0.0250	0.00700	mg/kg	50	06/30/21 19:50	8260B		MS
Total Xylenes*	10.9	0.0250	0.0250	mg/kg	50	06/30/21 19:50	8260B		MS
1,3,5-Trimethylbenzene	4.18	0.0250	0.00450	mg/kg	50	06/30/21 19:50	8260B		MS
1,2,4-Trimethylbenzene	9.94	0.0250	0.00650	mg/kg	50	06/30/21 19:50	8260B		MS
Naphthalene*	2.14	0.0250	0.00500	mg/kg	50	06/30/21 19:50	8260B		MS
Surrogate: Dibromofluoromethane			103 %	84.6-114		06/30/21 19:50	8260B		MS
Surrogate: Toluene-d8			103 %	90.4-109		06/30/21 19:50	8260B		MS
Surrogate: 4-Bromofluorobenzene			169 %	82.5-117		06/30/21 19:50	8260B	S-04	MS

Polynuclear Aromatic Compounds by GC/MS

Naphthalene*	1.95	0.400	0.153	mg/kg	400	07/09/21 14:45	8270C		MS
2-Methylnaphthalene*	6.83	0.400	0.226	mg/kg	400	07/09/21 14:45	8270C		MS
1-Methylnaphthalene	4.27	0.400	0.161	mg/kg	400	07/09/21 14:45	8270C		MS
Acenaphthylene*	<0.196	0.400	0.196	mg/kg	400	07/09/21 14:45	8270C		MS
Acenaphthene*	<0.235	0.400	0.235	mg/kg	400	07/09/21 14:45	8270C		MS
Fluorene*	0.952	0.400	0.142	mg/kg	400	07/09/21 14:45	8270C		MS
Phenanthrene*	1.23	0.400	0.214	mg/kg	400	07/09/21 14:45	8270C		MS
Anthracene*	<0.172	0.400	0.172	mg/kg	400	07/09/21 14:45	8270C		MS
Carbazole*	<0.190	0.400	0.190	mg/kg	400	07/09/21 14:45	8270C		MS
Fluoranthene*	<0.185	0.400	0.185	mg/kg	400	07/09/21 14:45	8270C		MS
Pyrene*	<0.132	0.400	0.132	mg/kg	400	07/09/21 14:45	8270C		MS
Benzo[a]anthracene*	<0.230	0.400	0.230	mg/kg	400	07/09/21 14:45	8270C		MS
Chrysene*	<0.172	0.400	0.172	mg/kg	400	07/09/21 14:45	8270C		MS
Benzo[b]fluoranthene*	<0.192	0.400	0.192	mg/kg	400	07/09/21 14:45	8270C		MS
Benzo[k]fluoranthene*	<0.157	0.400	0.157	mg/kg	400	07/09/21 14:45	8270C		MS
Benzo[a]pyrene*	<0.182	0.400	0.182	mg/kg	400	07/09/21 14:45	8270C		MS
Indeno[1,2,3-cd]pyrene*	<0.168	0.400	0.168	mg/kg	400	07/09/21 14:45	8270C		MS

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: Ferguson No 1 (OWP) F35-1 Project Manager: Jake Harter	Reported: 07/13/21 13:22
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SS04

2106227-04 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories

Polynuclear Aromatic Compounds by GC/MS

Dibenz[a,h]anthracene*	<0.186	0.400	0.186	mg/kg	400	07/09/21 14:45	8270C		MS
Benzo[g,h,i]perylene*	<0.186	0.400	0.186	mg/kg	400	07/09/21 14:45	8270C		MS
<i>Surrogate: Nitrobenzene-d5</i>			113 %	39.6-121		07/09/21 14:45	8270C		MS
<i>Surrogate: 2-Fluorobiphenyl</i>			78.2 %	39.8-134		07/09/21 14:45	8270C		MS
<i>Surrogate: Terphenyl-d14</i>			79.5 %	33.3-136		07/09/21 14:45	8270C		MS

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: Ferguson No 1 (OWP) F35-1 Project Manager: Jake Harter	Reported: 07/13/21 13:22
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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 B211459 - Paste Extract

Duplicate (B211459-DUP1)		Source: 2106228-01		Prepared: 07/02/21 Analyzed: 07/06/21						
pH	7.34		pH Units		7.43			1.22	20	
Reference (B211459-SRM1)				Prepared: 07/02/21 Analyzed: 07/06/21						
pH	8.55		pH Units	9.14		93.5	95-105			

Batch B211460 - Paste Extract

Duplicate (B211460-DUP1)		Source: 2106228-01		Prepared: 07/02/21 Analyzed: 07/07/21						
Conductivity	1060		umho/cm @ 25.0°C		1140			7.02	20	
Reference (B211460-SRM1)				Prepared: 07/02/21 Analyzed: 07/07/21						
Conductivity	7610		umho/cm @ 25.0°C	6720		113	90-110			

Batch B211461 - Paste Extract

Blank (B211461-BLK1)				Prepared: 07/02/21 Analyzed: 07/08/21						
Calcium	ND	0.100	mg/L							
Magnesium	ND	0.100	mg/L							
Sodium	ND	1.00	mg/L							
Duplicate (B211461-DUP1)		Source: 2106228-01		Prepared: 07/02/21 Analyzed: 07/08/21						
Calcium	109	0.200	mg/L		119			9.43	20	
Magnesium	24.2	0.200	mg/L		26.2			8.19	20	
Sodium	58.5	2.00	mg/L		61.4			4.86	20	

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Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: Ferguson No 1 (OWP) F35-1	Reported:
Durango CO, 81302	Project Manager: Jake Harter	07/13/21 13:22

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 B211457 - EPA 3050

Blank (B211457-BLK1)

Prepared: 07/02/21 Analyzed: 07/07/21

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 (B211457-BS1)

Prepared: 07/02/21 Analyzed: 07/07/21

Barium	179	5.00	mg/kg dry	200		89.7	80-120			
Cadmium	166	5.00	mg/kg dry	200		83.0	80-120			
Chromium	179	5.00	mg/kg dry	200		89.4	80-120			
Copper	383	5.00	mg/kg dry	400		95.8	80-120			
Lead	172	10.0	mg/kg dry	200		85.8	80-120			
Nickel	172	5.00	mg/kg dry	200		85.8	80-120			
Selenium	759	20.0	mg/kg dry	800		94.8	80-120			
Silver	9.22	1.00	mg/kg dry	10.0		92.2	80-120			
Zinc	162	10.0	mg/kg dry	200		80.8	80-120			

LCS Dup (B211457-BSD1)

Prepared: 07/02/21 Analyzed: 07/07/21

Barium	176	5.00	mg/kg dry	200		88.0	80-120	1.94	20	
Cadmium	162	5.00	mg/kg dry	200		81.2	80-120	2.25	20	
Chromium	176	5.00	mg/kg dry	200		88.0	80-120	1.63	20	
Copper	376	5.00	mg/kg dry	400		94.0	80-120	1.95	20	
Lead	171	10.0	mg/kg dry	200		85.7	80-120	0.0547	20	
Nickel	171	5.00	mg/kg dry	200		85.3	80-120	0.602	20	
Selenium	738	20.0	mg/kg dry	800		92.2	80-120	2.79	20	
Silver	9.31	1.00	mg/kg dry	10.0		93.1	80-120	0.908	20	
Zinc	161	10.0	mg/kg dry	200		80.4	80-120	0.576	20	

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: Ferguson No 1 (OWP) F35-1 Project Manager: Jake Harter	Reported: 07/13/21 13:22
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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 B211458 - EPA 3050M

Blank (B211458-BLK1)

Prepared: 07/02/21 Analyzed: 07/06/21

Arsenic	ND	0.100	mg/kg dry							
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LCS (B211458-BS1)

Prepared: 07/02/21 Analyzed: 07/06/21

Arsenic	4.50	0.100	mg/kg dry	5.00		90.1	80-120			
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LCS Dup (B211458-BSD1)

Prepared: 07/02/21 Analyzed: 07/06/21

Arsenic	4.44	0.100	mg/kg dry	5.00		88.8	80-120	1.43	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 B211462 - Hot Water Soluble Metals Extract

Blank (B211462-BLK1)

Prepared: 07/02/21 Analyzed: 07/07/21

Boron	ND	1.20	mg/L							
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Duplicate (B211462-DUP1)

Source: 2106227-01 Prepared: 07/02/21 Analyzed: 07/07/21

Boron	1.29	1.20	mg/L		1.29			0.0944	200	
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Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: Ferguson No 1 (OWP) F35-1	Reported:
Durango CO, 81302	Project Manager: Jake Harter	07/13/21 13:22

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 1063001 - General Prep - Organics

Blank (1063001-BLK1)

Prepared & Analyzed: 06/30/21

Surrogate: 1-Chlorooctadecane	41.7		mg/kg	50.0		83.4	38.9-142			
Surrogate: 1-Chlorooctane	41.8		mg/kg	50.0		83.6	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 (1063001-BS1)

Prepared & Analyzed: 06/30/21

Surrogate: 1-Chlorooctadecane	48.2		mg/kg	50.0		96.3	38.9-142			
Surrogate: 1-Chlorooctane	46.9		mg/kg	50.0		93.8	44.3-133			
DRO >C10-C28	234	10.0	mg/kg	200		117	79.3-136			
GRO C6-C10	223	10.0	mg/kg	200		112	83.4-129			
Total TPH C6-C28	457	10.0	mg/kg	400		114	85.3-130			

LCS Dup (1063001-BSD1)

Prepared & Analyzed: 06/30/21

Surrogate: 1-Chlorooctadecane	45.5		mg/kg	50.0		91.0	38.9-142			
Surrogate: 1-Chlorooctane	45.1		mg/kg	50.0		90.1	44.3-133			
DRO >C10-C28	230	10.0	mg/kg	200		115	79.3-136	2.12	12.1	
GRO C6-C10	211	10.0	mg/kg	200		106	83.4-129	5.39	12.6	
Total TPH C6-C28	441	10.0	mg/kg	400		110	85.3-130	3.70	11.6	

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Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: Ferguson No 1 (OWP) F35-1	Reported:
Durango CO, 81302	Project Manager: Jake Harter	07/13/21 13:22

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 1063007 - Volatiles

Blank (1063007-BLK1)

Prepared & Analyzed: 06/30/21

1,2,4-Trimethylbenzene	ND	0.0250	mg/kg							
1,3,5-Trimethylbenzene	ND	0.0250	mg/kg							
<i>Surrogate: 4-Bromofluorobenzene</i>	1.19		mg/kg	1.25		95.4	82.5-117			
Benzene	ND	0.0250	mg/kg							
<i>Surrogate: Dibromofluoromethane</i>	1.54		mg/kg	1.25		123	84.6-114			S-H12
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>	1.21		mg/kg	1.25		96.5	90.4-109			
Total Xylenes	ND	0.0250	mg/kg							

LCS (1063007-BS1)

Prepared & Analyzed: 06/30/21

1,2,4-Trimethylbenzene	0.518	0.0250	mg/kg	0.500		104	62.4-140			
1,3,5-Trimethylbenzene	0.494	0.0250	mg/kg	0.500		98.7	64.4-138			
<i>Surrogate: 4-Bromofluorobenzene</i>	1.30		mg/kg	1.25		104	82.5-117			
Benzene	0.471	0.0250	mg/kg	0.500		94.2	73-130			
<i>Surrogate: Dibromofluoromethane</i>	1.55		mg/kg	1.25		124	84.6-114			S-H12
Ethylbenzene	0.511	0.0250	mg/kg	0.500		102	75.4-127			
m+p - Xylene	1.07	0.0500	mg/kg	1.00		107	71.8-133			
Naphthalene	0.440	0.0250	mg/kg	0.500		87.9	28.7-158			
o-Xylene	0.485	0.0250	mg/kg	0.500		97.1	78.6-125			
Toluene	0.466	0.0250	mg/kg	0.500		93.2	79-122			
<i>Surrogate: Toluene-d8</i>	1.17		mg/kg	1.25		93.5	90.4-109			
Total Xylenes	1.56	0.0250	mg/kg	1.50		104	74.6-130			

LCS Dup (1063007-BSD1)

Prepared & Analyzed: 06/30/21

1,2,4-Trimethylbenzene	0.477	0.0250	mg/kg	0.500		95.4	62.4-140	8.26	38.2	
1,3,5-Trimethylbenzene	0.473	0.0250	mg/kg	0.500		94.7	64.4-138	4.18	39.1	
<i>Surrogate: 4-Bromofluorobenzene</i>	1.28		mg/kg	1.25		102	82.5-117			
Benzene	0.459	0.0250	mg/kg	0.500		91.8	73-130	2.64	17.1	
<i>Surrogate: Dibromofluoromethane</i>	1.53		mg/kg	1.25		122	84.6-114			S-H12
Ethylbenzene	0.480	0.0250	mg/kg	0.500		96.1	75.4-127	6.16	16.5	
m+p - Xylene	1.04	0.0500	mg/kg	1.00		104	71.8-133	3.58	19.1	
Naphthalene	0.398	0.0250	mg/kg	0.500		79.6	28.7-158	9.98	64	
o-Xylene	0.461	0.0250	mg/kg	0.500		92.1	78.6-125	5.23	13.2	
Toluene	0.453	0.0250	mg/kg	0.500		90.6	79-122	2.81	18.3	

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Debbie Zufelt

Debbie Zufelt, Reports Manager

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Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: Ferguson No 1 (OWP) F35-1	Reported:
Durango CO, 81302	Project Manager: Jake Harter	07/13/21 13:22

**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 1063007 - Volatiles (Continued)

LCS Dup (1063007-BSD1) (Continued)

Prepared & Analyzed: 06/30/21

<i>Surrogate: Toluene-d8</i>	1.18		mg/kg	1.25		94.6	90.4-109			
Total Xylenes	1.50	0.0250	mg/kg	1.50		99.8	74.6-130	4.09	16.5	

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Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: Ferguson No 1 (OWP) F35-1	Reported:
Durango CO, 81302	Project Manager: Jake Harter	07/13/21 13:22

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 1063005 - SW846-3510

Blank (1063005-BLK1)

Prepared: 07/01/21 Analyzed: 07/09/21

1-Methylnaphthalene	ND	0.040	mg/kg							
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>1.74</i>		mg/kg	<i>2.00</i>		<i>86.8</i>	<i>39.8-134</i>			
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]flouranthene	ND	0.040	mg/kg							
Benzo[g,h,i]perylene	ND	0.040	mg/kg							
Benzo[k]flouranthene	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							
<i>Surrogate: Nitrobenzene-d5</i>	<i>1.67</i>		mg/kg	<i>2.00</i>		<i>83.3</i>	<i>39.6-121</i>			
Phenanthrene	ND	0.040	mg/kg							
Pyrene	ND	0.040	mg/kg							
<i>Surrogate: Terphenyl-dl4</i>	<i>1.75</i>		mg/kg	<i>2.00</i>		<i>87.7</i>	<i>33.3-136</i>			

LCS (1063005-BS1)

Prepared: 07/01/21 Analyzed: 07/09/21

1-Methylnaphthalene	0.268	0.040	mg/kg	0.400		67.0	57.6-108			
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>1.50</i>		mg/kg	<i>2.00</i>		<i>75.0</i>	<i>39.8-134</i>			
2-Methylnaphthalene	0.263	0.040	mg/kg	0.400		65.8	59-106			
Acenaphthene	0.299	0.040	mg/kg	0.400		74.9	60.9-105			
Acenaphthylene	0.284	0.040	mg/kg	0.400		70.9	57.4-107			
Anthracene	0.280	0.040	mg/kg	0.400		70.0	60.8-105			
Benzo[a]anthracene	0.278	0.040	mg/kg	0.400		69.5	56.1-121			
Benzo[a]pyrene	0.243	0.040	mg/kg	0.400		60.8	56.7-115			
Benzo[b]flouranthene	0.289	0.040	mg/kg	0.400		72.1	45.4-128			
Benzo[g,h,i]perylene	0.286	0.040	mg/kg	0.400		71.5	56.5-107			
Benzo[k]flouranthene	0.275	0.040	mg/kg	0.400		68.8	49.6-119			
Carbazole	0.271	0.040	mg/kg	0.400		67.9	59.7-107			
Chrysene	0.265	0.040	mg/kg	0.400		66.2	12.2-190			
Dibenz[a,h]anthracene	0.269	0.040	mg/kg	0.400		67.3	59.1-111			
Fluoranthene	0.274	0.040	mg/kg	0.400		68.5	60.6-111			

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Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: Ferguson No 1 (OWP) F35-1	Reported:
Durango CO, 81302	Project Manager: Jake Harter	07/13/21 13:22

**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 1063005 - SW846-3510 (Continued)

LCS (1063005-BS1) (Continued)

Prepared: 07/01/21 Analyzed: 07/09/21

Fluorene	0.292	0.040	mg/kg	0.400		73.0	59.3-108			
Indeno[1,2,3-cd]pyrene	0.287	0.040	mg/kg	0.400		71.8	53.4-116			
Naphthalene	0.256	0.040	mg/kg	0.400		63.9	56.5-106			
<i>Surrogate: Nitrobenzene-d5</i>	<i>1.39</i>		mg/kg	<i>2.00</i>		<i>69.7</i>	<i>39.6-121</i>			
Phenanthrene	0.267	0.040	mg/kg	0.400		66.7	59.9-107			
Pyrene	0.276	0.040	mg/kg	0.400		68.9	51.5-122			
<i>Surrogate: Terphenyl-d14</i>	<i>1.60</i>		mg/kg	<i>2.00</i>		<i>79.9</i>	<i>33.3-136</i>			

LCS Dup (1063005-BS1)

Prepared: 07/01/21 Analyzed: 07/09/21

1-Methylnaphthalene	0.262	0.040	mg/kg	0.400		65.4	57.6-108	2.32	6.22	
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>1.49</i>		mg/kg	<i>2.00</i>		<i>74.3</i>	<i>39.8-134</i>			
2-Methylnaphthalene	0.257	0.040	mg/kg	0.400		64.3	59-106	2.39	6.23	
Acenaphthene	0.303	0.040	mg/kg	0.400		75.8	60.9-105	1.26	8.18	
Acenaphthylene	0.277	0.040	mg/kg	0.400		69.2	57.4-107	2.40	5	
Anthracene	0.269	0.040	mg/kg	0.400		67.3	60.8-105	3.99	3.68	QR-04
Benzo[a]anthracene	0.286	0.040	mg/kg	0.400		71.4	56.1-121	2.78	9.01	
Benzo[a]pyrene	0.238	0.040	mg/kg	0.400		59.5	56.7-115	2.25	4.92	
Benzo[b]fluoranthene	0.276	0.040	mg/kg	0.400		68.9	45.4-128	4.55	7.63	
Benzo[g,h,i]perylene	0.277	0.040	mg/kg	0.400		69.2	56.5-107	3.34	12.5	
Benzo[k]fluoranthene	0.274	0.040	mg/kg	0.400		68.5	49.6-119	0.419	10.6	
Carbazole	0.270	0.040	mg/kg	0.400		67.4	59.7-107	0.695	8.65	
Chrysene	0.291	0.040	mg/kg	0.400		72.7	12.2-190	9.37	21.8	
Dibenz[a,h]anthracene	0.265	0.040	mg/kg	0.400		66.3	59.1-111	1.52	11.6	
Fluoranthene	0.266	0.040	mg/kg	0.400		66.6	60.6-111	2.86	7.54	
Fluorene	0.269	0.040	mg/kg	0.400		67.3	59.3-108	8.16	5.49	QR-04
Indeno[1,2,3-cd]pyrene	0.286	0.040	mg/kg	0.400		71.6	53.4-116	0.279	22.3	
Naphthalene	0.252	0.040	mg/kg	0.400		62.9	56.5-106	1.58	4.56	
<i>Surrogate: Nitrobenzene-d5</i>	<i>1.38</i>		mg/kg	<i>2.00</i>		<i>68.9</i>	<i>39.6-121</i>			
Phenanthrene	0.262	0.040	mg/kg	0.400		65.5	59.9-107	1.89	5.21	
Pyrene	0.278	0.040	mg/kg	0.400		69.6	51.5-122	0.917	10.6	
<i>Surrogate: Terphenyl-d14</i>	<i>1.59</i>		mg/kg	<i>2.00</i>		<i>79.3</i>	<i>33.3-136</i>			

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Cottonwood Consulting
PO Box 1653
Durango CO, 81302

Project: COGCC Table 915-1
Project Name / Number: Ferguson No 1 (OWP) F35-1
Project Manager: Jake Harter

Reported:
07/13/21 13:22

Notes and Definitions

- S-HI2 Surrogate recovery was bias high in QC and corresponding samples. All quality control within method limits for target analytes. Data was not negatively effected.
- 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.
- QR-04 The RPD for the BS/BSD was outside of historical limits.
- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- 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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 75 Suttle St Durango, CO 81303

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Cottonwood Consulting
 Project Manager: Jacob Harter
 Address: PO Box 1653
 City: Durango State: CO Zip: 81302
 Phone #: (970) 946-3761 Email: jharter@cottonwoodconsulting.com
 Additional Report To:
 Project Name: Ferguson No 1 (COWP) F35-1
 Project Number:
 Sampler Name (Print): Jacob Harter

FOR LAB USE ONLY

Collected	Matrix (check one)	# of containers
Date	GROUNDWATER SURFACEWATER WASTEWATER PRODUCEDWATER SOIL OTHER :	No preservation (general) HNO ₃ HCl H ₂ SO ₄ Other: Other:

Lab I.D.	Sample Name or Location	Date	Time	Matrix (check one)	# of containers	ANALYSIS REQUEST
2106227-01	SS01	6/24/21	1005	SOIL	3	X
-02	SS02		1025	SOIL	3	X
-03	SS03		1040	SOIL	3	X
-04	SS04		1100	SOIL	3	X

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Relinquished By: *Jacob Harter* Date: 6/24/21 Time: 1500
 Received By: *Jenika Dunlap*
 Relinquished By: *Jacob Harter* Date: 6/24/21 Time: 1545
 Received By: *Jenika Dunlap*

Delivered By: (Circle One)
 Sampler: UPS - FedEx - Kangaroo - Other: *3502*

Temperature at receipt: *3502* CHECKED BY: *Jacob Harter #3*

Report to State? (Circle) Yes No

ADDITIONAL REMARKS: *on Dec 31 2021*

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