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03 September 2025

Jerrid Brann
IKAV Energy
1199 Main Ave Suite 101
Durango, CO 81303
RE: Southern Ute DD 4

Enclosed are the results of analyses for samples received by the laboratory on 08/18/25 14:48. 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'. The signature is written in a cursive style and is enclosed in a light blue rectangular box.

Reporting Station For 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: TX-C25-00079

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: TX-C25-00101

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IKAV Energy
1199 Main Ave Suite 101
Durango CO, 81303

Project: ECMC Table 915-1
Project Name / Number: Southern Ute DD 4
Project Manager: Jerrid Brann

Reported:
09/03/25 08:31

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
SS01	2508305-01	Solid	08/18/25 13:05	08/18/25 14:48	
SS02	2508305-02	Solid	08/18/25 13:20	08/18/25 14:48	
SS03	2508305-03	Solid	08/18/25 13:35	08/18/25 14:48	
BG01	2508305-04	Solid	08/18/25 13:50	08/18/25 14:48	

Green Analytical Laboratories

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

Reporting Station For Jeremy D Allen, Laboratory Director

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Project: ECMC Table 915-1
Project Name / Number: Southern Ute DD 4
Project Manager: Jerrid Brann

Reported:
09/03/25 08:31

SS01

2508305-01 (Soil)

Sampled Date: 08/18/25 13:05

Sampled By: Jerrid Brann

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

Hexavalent Chromium	<0.250	0.250	0.116	mg/kg dry	25	09/02/25 13:30	3060A/3500-Cr B		HIC
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Saturated Paste Extraction

Calcium	41.4	0.100	0.072	mg/L	1	08/28/25 12:44	EPA 200.7		AWG
Conductivity	2490			umho/cm@25 C	1	08/26/25 09:26	ASA#9 10-3.3		AWG
Magnesium	9.31	0.100	0.079	mg/L	1	08/28/25 12:44	EPA 200.7		AWG
pH	8.74			pH Units	1	08/26/25 09:26	ASA#9 10-3.2		AWG
SAR	17.1			No Unit	1	08/28/25 12:44	USDA-60		AWG
Sodium	467	1.00	0.756	mg/L	1	08/28/25 12:44	EPA 200.7		AWG

Total Metals by ICP

Barium*	1380	25.0	4.80	mg/kg dry	500	08/29/25 15:35	6010B		AWG
Cadmium*	<5.00	5.00	1.14	mg/kg dry	100	08/28/25 11:36	6010B		AWG
Copper*	12.1	10.0	6.49	mg/kg dry	100	08/28/25 11:36	6010B		AWG
Lead*	<10.0	10.0	6.23	mg/kg dry	100	08/28/25 11:36	6010B		AWG
Nickel*	12.3	5.00	1.63	mg/kg dry	100	08/28/25 11:36	6010B		AWG
Selenium*	<20.0	20.0	13.8	mg/kg dry	100	08/28/25 11:35	6010B		AWG
Silver*	<1.00	1.00	0.793	mg/kg dry	100	08/28/25 11:35	6010B		AWG
Zinc*	29.9	10.0	7.20	mg/kg dry	100	08/28/25 11:36	6010B		AWG

Total Metals by ICPMS

Arsenic	1.50	1.00	0.158	mg/kg dry	1000	08/28/25 15:09	6020A		AES
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Hot Water Extractable

Boron	<1.20	1.20	0.214	mg/L	4	08/28/25 13:22	EPA 200.7		AWG
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	08/19/25 20:42	8015B		ms
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	08/19/25 20:42	8015B		ms
GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	08/19/25 20:42	8015B		ms

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Project Name / Number: Southern Ute DD 4
Project Manager: Jerrid Brann

Reported:
09/03/25 08:31

SS01

2508305-01 (Soil)

Sampled Date: 08/18/25 13:05

Sampled By: Jerrid Brann

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

Petroleum Hydrocarbons by GC FID

Surrogate: 1-Chlorooctadecane			107 %	40.6-153		08/19/25 20:42	8015B		ms
Surrogate: 1-Chlorooctane			99.5 %	44.4-145		08/19/25 20:42	8015B		ms

VOLATILES BY GC/MS

1,2,4-Trimethylbenzene	<0.0250	0.0250	0.00285	mg/kg	50	08/21/25 22:58	8260B		SK
1,3,5-Trimethylbenzene	<0.0250	0.0250	0.00190	mg/kg	50	08/21/25 22:58	8260B		SK
Benzene*	<0.0250	0.0250	0.00262	mg/kg	50	08/21/25 22:58	8260B		SK
Ethylbenzene*	<0.0250	0.0250	0.00200	mg/kg	50	08/21/25 22:58	8260B		SK
m+p - Xylene*	<0.0500	0.0500	0.00360	mg/kg	50	08/21/25 22:58	8260B		SK
Naphthalene*	<0.0250	0.0250	0.00195	mg/kg	50	08/21/25 22:58	8260B		SK
o-Xylene*	<0.0250	0.0250	0.00400	mg/kg	50	08/21/25 22:58	8260B		SK
Toluene*	<0.0250	0.0250	0.00480	mg/kg	50	08/21/25 22:58	8260B		SK
Total Xylenes*	<0.0500	0.0500	0.00760	mg/kg	50	08/21/25 22:58	8260B		SK

Surrogate: 4-Bromofluorobenzene			87.6 %	82.5-117		08/21/25 22:58	8260B		SK
Surrogate: Dibromofluoromethane			126 %	84.6-114		08/21/25 22:58	8260B	S-04	SK
Surrogate: Toluene-d8			99.0 %	90.4-109		08/21/25 22:58	8260B		SK

Polynuclear Aromatic Compounds by GC/MS

1-Methylnaphthalene	<0.040	0.040	0.002	mg/kg	40	08/22/25 22:50	8270C		SK
2-Methylnaphthalene*	<0.040	0.040	0.002	mg/kg	40	08/22/25 22:50	8270C		SK
Acenaphthene*	<0.040	0.040	0.001	mg/kg	40	08/22/25 22:50	8270C		SK
Anthracene*	<0.040	0.040	0.002	mg/kg	40	08/22/25 22:50	8270C		SK
Benzo[a]anthracene*	<0.040	0.040	0.010	mg/kg	40	08/22/25 22:50	8270C		SK
Benzo[a]pyrene*	<0.040	0.040	0.001	mg/kg	40	08/22/25 22:50	8270C		SK
Benzo[b]fluoranthene*	<0.040	0.040	0.001	mg/kg	40	08/22/25 22:50	8270C		SK
Benzo[k]fluoranthene*	<0.040	0.040	0.002	mg/kg	40	08/22/25 22:50	8270C		SK
Chrysene	<0.040	0.040	0.002	mg/kg	40	08/22/25 22:50	8270C		SK
Dibenz[a,h]anthracene*	<0.040	0.040	0.001	mg/kg	40	08/22/25 22:50	8270C		SK

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Reporting Station For Jeremy D Allen, Laboratory Director

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Project: ECMC Table 915-1
Project Name / Number: Southern Ute DD 4
Project Manager: Jerrid Brann

Reported:
09/03/25 08:31

SS01

2508305-01 (Soil)

Sampled Date: 08/18/25 13:05

Sampled By: Jerrid Brann

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

Fluoranthene*	<0.040	0.040	0.0006	mg/kg	40	08/22/25 22:50	8270C		SK
Fluorene*	<0.040	0.040	0.0006	mg/kg	40	08/22/25 22:50	8270C		SK
Indeno[1,2,3-cd]pyrene*	<0.040	0.040	0.001	mg/kg	40	08/22/25 22:50	8270C		SK
Naphthalene*	<0.040	0.040	0.002	mg/kg	40	08/22/25 22:50	8270C		SK
Pyrene*	<0.040	0.040	0.001	mg/kg	40	08/22/25 22:50	8270C		SK
<i>Surrogate: 2-Fluorobiphenyl</i>			59.0 %	7.39-192		08/22/25 22:50	8270C		SK
<i>Surrogate: Nitrobenzene-d5</i>			64.1 %	5.17-184		08/22/25 22:50	8270C		SK
<i>Surrogate: Terphenyl-d14</i>			59.0 %	27.5-139		08/22/25 22:50	8270C		SK

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Durango CO, 81303

Project: ECMC Table 915-1
Project Name / Number: Southern Ute DD 4
Project Manager: Jerrid Brann

Reported:
09/03/25 08:31

SS02

2508305-02 (Soil)

Sampled Date: 08/18/25 13:20

Sampled By: Jerrid Brann

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

Hexavalent Chromium	<0.250	0.250	0.116	mg/kg dry	25	09/02/25 13:30	3060A/3500-Cr B		HIC
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Saturated Paste Extraction

Calcium	99.6	0.300	0.217	mg/L	3	08/28/25 12:48	EPA 200.7		AWG
Conductivity	3010			umho/cm@25 C	1	08/26/25 09:26	ASA#9 10-3.3		AWG
Magnesium	16.7	0.300	0.238	mg/L	3	08/28/25 12:48	EPA 200.7		AWG
pH	7.95			pH Units	1	08/26/25 09:26	ASA#9 10-3.2		AWG
SAR	11.5			No Unit	1	08/28/25 12:48	USDA-60		AWG
Sodium	472	3.00	2.27	mg/L	3	08/28/25 12:48	EPA 200.7		AWG

Total Metals by ICP

Barium*	308	5.00	0.959	mg/kg dry	100	08/28/25 11:49	6010B		AWG
Cadmium*	<5.00	5.00	1.14	mg/kg dry	100	08/28/25 11:49	6010B		AWG
Copper*	<10.0	10.0	6.49	mg/kg dry	100	08/28/25 11:49	6010B		AWG
Lead*	<10.0	10.0	6.23	mg/kg dry	100	08/28/25 11:49	6010B		AWG
Nickel*	8.90	5.00	1.63	mg/kg dry	100	08/28/25 11:49	6010B		AWG
Selenium*	<20.0	20.0	13.8	mg/kg dry	100	08/28/25 11:49	6010B		AWG
Silver*	<1.00	1.00	0.793	mg/kg dry	100	08/28/25 11:49	6010B		AWG
Zinc*	36.3	10.0	7.20	mg/kg dry	100	08/28/25 11:49	6010B		AWG

Total Metals by ICPMS

Arsenic	3.16	1.00	0.158	mg/kg dry	1000	08/28/25 15:17	6020A		AES
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Hot Water Extractable

Boron	<1.20	1.20	0.214	mg/L	4	08/28/25 13:26	EPA 200.7		AWG
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	08/19/25 21:01	8015B		ms
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	08/19/25 21:01	8015B		ms
GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	08/19/25 21:01	8015B		ms

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Project: ECMC Table 915-1
Project Name / Number: Southern Ute DD 4
Project Manager: Jerrid Brann

Reported:
09/03/25 08:31

SS02

2508305-02 (Soil)

Sampled Date: 08/18/25 13:20

Sampled By: Jerrid Brann

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

Petroleum Hydrocarbons by GC FID

Surrogate: 1-Chlorooctadecane		103 %	40.6-153			08/19/25 21:01	8015B		ms
Surrogate: 1-Chlorooctane		96.5 %	44.4-145			08/19/25 21:01	8015B		ms

VOLATILES BY GC/MS

1,2,4-Trimethylbenzene	<0.0250	0.0250	0.00285	mg/kg	50	08/21/25 23:22	8260B		SK
1,3,5-Trimethylbenzene	<0.0250	0.0250	0.00190	mg/kg	50	08/21/25 23:22	8260B		SK
Benzene*	<0.0250	0.0250	0.00262	mg/kg	50	08/21/25 23:22	8260B		SK
Ethylbenzene*	<0.0250	0.0250	0.00200	mg/kg	50	08/21/25 23:22	8260B		SK
m+p - Xylene*	<0.0500	0.0500	0.00360	mg/kg	50	08/21/25 23:22	8260B		SK
Naphthalene*	<0.0250	0.0250	0.00195	mg/kg	50	08/21/25 23:22	8260B		SK
o-Xylene*	<0.0250	0.0250	0.00400	mg/kg	50	08/21/25 23:22	8260B		SK
Toluene*	<0.0250	0.0250	0.00480	mg/kg	50	08/21/25 23:22	8260B		SK
Total Xylenes*	<0.0500	0.0500	0.00760	mg/kg	50	08/21/25 23:22	8260B		SK
Surrogate: 4-Bromofluorobenzene		86.0 %	82.5-117			08/21/25 23:22	8260B		SK
Surrogate: Dibromofluoromethane		124 %	84.6-114			08/21/25 23:22	8260B	S-04	SK
Surrogate: Toluene-d8		100 %	90.4-109			08/21/25 23:22	8260B		SK

Polynuclear Aromatic Compounds by GC/MS

1-Methylnaphthalene	<0.040	0.040	0.002	mg/kg	40	08/22/25 23:20	8270C		SK
2-Methylnaphthalene*	<0.040	0.040	0.002	mg/kg	40	08/22/25 23:20	8270C		SK
Acenaphthene*	<0.040	0.040	0.001	mg/kg	40	08/22/25 23:20	8270C		SK
Anthracene*	<0.040	0.040	0.002	mg/kg	40	08/22/25 23:20	8270C		SK
Benzo[a]anthracene*	<0.040	0.040	0.010	mg/kg	40	08/22/25 23:20	8270C		SK
Benzo[a]pyrene*	<0.040	0.040	0.001	mg/kg	40	08/22/25 23:20	8270C		SK
Benzo[b]fluoranthene*	<0.040	0.040	0.001	mg/kg	40	08/22/25 23:20	8270C		SK
Benzo[k]fluoranthene*	<0.040	0.040	0.002	mg/kg	40	08/22/25 23:20	8270C		SK
Chrysene	<0.040	0.040	0.002	mg/kg	40	08/22/25 23:20	8270C		SK
Dibenz[a,h]anthracene*	<0.040	0.040	0.001	mg/kg	40	08/22/25 23:20	8270C		SK

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Project: ECMC Table 915-1
Project Name / Number: Southern Ute DD 4
Project Manager: Jerrid Brann

Reported:
09/03/25 08:31

SS02

2508305-02 (Soil)

Sampled Date: 08/18/25 13:20

Sampled By: Jerrid Brann

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

Fluoranthene*	<0.040	0.040	0.0006	mg/kg	40	08/22/25 23:20	8270C		SK
Fluorene*	<0.040	0.040	0.0006	mg/kg	40	08/22/25 23:20	8270C		SK
Indeno[1,2,3-cd]pyrene*	<0.040	0.040	0.001	mg/kg	40	08/22/25 23:20	8270C		SK
Naphthalene*	<0.040	0.040	0.002	mg/kg	40	08/22/25 23:20	8270C		SK
Pyrene*	<0.040	0.040	0.001	mg/kg	40	08/22/25 23:20	8270C		SK
<i>Surrogate: 2-Fluorobiphenyl</i>			58.1 %	7.39-192		08/22/25 23:20	8270C		SK
<i>Surrogate: Nitrobenzene-d5</i>			65.3 %	5.17-184		08/22/25 23:20	8270C		SK
<i>Surrogate: Terphenyl-d14</i>			59.8 %	27.5-139		08/22/25 23:20	8270C		SK

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Project: ECMC Table 915-1
Project Name / Number: Southern Ute DD 4
Project Manager: Jerrid Brann

Reported:
09/03/25 08:31

SS03

2508305-03 (Soil)

Sampled Date: 08/18/25 13:35

Sampled By: Jerrid Brann

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

Hexavalent Chromium	<0.250	0.250	0.116	mg/kg dry	25	09/02/25 13:30	3060A/3500-Cr B		HIC
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Saturated Paste Extraction

Calcium	95.3	0.300	0.217	mg/L	3	08/28/25 12:53	EPA 200.7		AWG
Conductivity	3470			umho/cm@25 C	1	08/26/25 09:26	ASA#9 10-3.3		AWG
Magnesium	16.1	0.300	0.238	mg/L	3	08/28/25 12:54	EPA 200.7		AWG
pH	8.09			pH Units	1	08/26/25 09:26	ASA#9 10-3.2		AWG
SAR	15.1			No Unit	1	08/28/25 12:53	USDA-60		AWG
Sodium	604	3.00	2.27	mg/L	3	08/28/25 12:53	EPA 200.7		AWG

Total Metals by ICP

Barium*	184	5.00	0.959	mg/kg dry	100	08/28/25 11:53	6010B		AWG
Cadmium*	<5.00	5.00	1.14	mg/kg dry	100	08/28/25 11:53	6010B		AWG
Copper*	<10.0	10.0	6.49	mg/kg dry	100	08/28/25 11:53	6010B		AWG
Lead*	<10.0	10.0	6.23	mg/kg dry	100	08/28/25 11:53	6010B		AWG
Nickel*	<5.00	5.00	1.63	mg/kg dry	100	08/28/25 11:53	6010B		AWG
Selenium*	<20.0	20.0	13.8	mg/kg dry	100	08/28/25 11:53	6010B		AWG
Silver*	<1.00	1.00	0.793	mg/kg dry	100	08/28/25 11:53	6010B		AWG
Zinc*	31.2	10.0	7.20	mg/kg dry	100	08/28/25 11:53	6010B		AWG

Total Metals by ICPMS

Arsenic	1.73	1.00	0.158	mg/kg dry	1000	08/28/25 15:19	6020A		AES
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Hot Water Extractable

Boron	<1.20	1.20	0.214	mg/L	4	08/28/25 13:27	EPA 200.7		AWG
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	08/19/25 21:21	8015B		ms
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	08/19/25 21:21	8015B		ms
GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	08/19/25 21:21	8015B		ms

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IKAV Energy
1199 Main Ave Suite 101
Durango CO, 81303

Project: ECMC Table 915-1
Project Name / Number: Southern Ute DD 4
Project Manager: Jerrid Brann

Reported:
09/03/25 08:31

SS03

2508305-03 (Soil)

Sampled Date: 08/18/25 13:35

Sampled By: Jerrid Brann

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

Petroleum Hydrocarbons by GC FID

Surrogate: 1-Chlorooctadecane		99.3 %	40.6-153			08/19/25 21:21	8015B		ms
Surrogate: 1-Chlorooctane		94.5 %	44.4-145			08/19/25 21:21	8015B		ms

VOLATILES BY GC/MS

1,2,4-Trimethylbenzene	<0.0250	0.0250	0.00285	mg/kg	50	08/21/25 23:46	8260B		SK
1,3,5-Trimethylbenzene	<0.0250	0.0250	0.00190	mg/kg	50	08/21/25 23:46	8260B		SK
Benzene*	<0.0250	0.0250	0.00262	mg/kg	50	08/21/25 23:46	8260B		SK
Ethylbenzene*	<0.0250	0.0250	0.00200	mg/kg	50	08/21/25 23:46	8260B		SK
m+p - Xylene*	<0.0500	0.0500	0.00360	mg/kg	50	08/21/25 23:46	8260B		SK
Naphthalene*	<0.0250	0.0250	0.00195	mg/kg	50	08/21/25 23:46	8260B		SK
o-Xylene*	<0.0250	0.0250	0.00400	mg/kg	50	08/21/25 23:46	8260B		SK
Toluene*	<0.0250	0.0250	0.00480	mg/kg	50	08/21/25 23:46	8260B		SK
Total Xylenes*	<0.0500	0.0500	0.00760	mg/kg	50	08/21/25 23:46	8260B		SK
Surrogate: 4-Bromofluorobenzene		87.2 %	82.5-117			08/21/25 23:46	8260B		SK
Surrogate: Dibromofluoromethane		126 %	84.6-114			08/21/25 23:46	8260B	S-04	SK
Surrogate: Toluene-d8		99.0 %	90.4-109			08/21/25 23:46	8260B		SK

Polynuclear Aromatic Compounds by GC/MS

1-Methylnaphthalene	<0.040	0.040	0.002	mg/kg	40	08/22/25 23:49	8270C		SK
2-Methylnaphthalene*	<0.040	0.040	0.002	mg/kg	40	08/22/25 23:49	8270C		SK
Acenaphthene*	<0.040	0.040	0.001	mg/kg	40	08/22/25 23:49	8270C		SK
Anthracene*	<0.040	0.040	0.002	mg/kg	40	08/22/25 23:49	8270C		SK
Benzo[a]anthracene*	<0.040	0.040	0.010	mg/kg	40	08/22/25 23:49	8270C		SK
Benzo[a]pyrene*	<0.040	0.040	0.001	mg/kg	40	08/22/25 23:49	8270C		SK
Benzo[b]fluoranthene*	<0.040	0.040	0.001	mg/kg	40	08/22/25 23:49	8270C		SK
Benzo[k]fluoranthene*	<0.040	0.040	0.002	mg/kg	40	08/22/25 23:49	8270C		SK
Chrysene	<0.040	0.040	0.002	mg/kg	40	08/22/25 23:49	8270C		SK
Dibenz[a,h]anthracene*	<0.040	0.040	0.001	mg/kg	40	08/22/25 23:49	8270C		SK

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IKAV Energy
1199 Main Ave Suite 101
Durango CO, 81303

Project: ECMC Table 915-1
Project Name / Number: Southern Ute DD 4
Project Manager: Jerrid Brann

Reported:
09/03/25 08:31

SS03

2508305-03 (Soil)

Sampled Date: 08/18/25 13:35

Sampled By: Jerrid Brann

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

Fluoranthene*	<0.040	0.040	0.0006	mg/kg	40	08/22/25 23:49	8270C		SK
Fluorene*	<0.040	0.040	0.0006	mg/kg	40	08/22/25 23:49	8270C		SK
Indeno[1,2,3-cd]pyrene*	<0.040	0.040	0.001	mg/kg	40	08/22/25 23:49	8270C		SK
Naphthalene*	<0.040	0.040	0.002	mg/kg	40	08/22/25 23:49	8270C		SK
Pyrene*	<0.040	0.040	0.001	mg/kg	40	08/22/25 23:49	8270C		SK
<i>Surrogate: 2-Fluorobiphenyl</i>			59.2 %	7.39-192		08/22/25 23:49	8270C		SK
<i>Surrogate: Nitrobenzene-d5</i>			62.0 %	5.17-184		08/22/25 23:49	8270C		SK
<i>Surrogate: Terphenyl-d14</i>			58.3 %	27.5-139		08/22/25 23:49	8270C		SK

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IKAV Energy
1199 Main Ave Suite 101
Durango CO, 81303

Project: ECMC Table 915-1
Project Name / Number: Southern Ute DD 4
Project Manager: Jerrid Brann

Reported:
09/03/25 08:31

BG01

2508305-04 (Soil)

Sampled Date: 08/18/25 13:50

Sampled By: Jerrid Brann

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

Hexavalent Chromium	<0.250	0.250	0.116	mg/kg dry	25	09/02/25 13:30	3060A/3500-Cr B		HIC
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Saturated Paste Extraction

Calcium	62.9	0.100	0.072	mg/L	1	08/28/25 12:57	EPA 200.7		AWG
Conductivity	404			umho/cm@25 C	1	08/26/25 09:26	ASA#9 10-3.3		AWG
Magnesium	11.9	0.100	0.079	mg/L	1	08/28/25 12:57	EPA 200.7		AWG
pH	7.13			pH Units	1	08/26/25 09:26	ASA#9 10-3.2		AWG
SAR	0.20			No Unit	1	08/28/25 12:57	USDA-60		AWG
Sodium	6.68	1.00	0.756	mg/L	1	08/28/25 12:57	EPA 200.7		AWG

Total Metals by ICP

Barium*	347	5.00	0.959	mg/kg dry	100	08/28/25 11:57	6010B		AWG
Cadmium*	<5.00	5.00	1.14	mg/kg dry	100	08/28/25 11:57	6010B		AWG
Copper*	10.1	10.0	6.49	mg/kg dry	100	08/28/25 11:57	6010B		AWG
Lead*	13.7	10.0	6.23	mg/kg dry	100	08/28/25 11:57	6010B		AWG
Nickel*	10.2	5.00	1.63	mg/kg dry	100	08/28/25 11:57	6010B		AWG
Selenium*	<20.0	20.0	13.8	mg/kg dry	100	08/28/25 11:56	6010B		AWG
Silver*	<1.00	1.00	0.793	mg/kg dry	100	08/28/25 11:56	6010B		AWG
Zinc*	53.8	10.0	7.20	mg/kg dry	100	08/28/25 11:57	6010B		AWG

Total Metals by ICPMS

Arsenic	<1.00	1.00	0.158	mg/kg dry	1000	08/28/25 15:20	6020A		AES
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Hot Water Extractable

Boron	<1.20	1.20	0.214	mg/L	4	08/28/25 13:29	EPA 200.7		AWG
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	08/19/25 21:09	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	08/19/25 21:09	8015B		MS
GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	08/19/25 21:09	8015B		MS

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IKAV Energy
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Project: ECMC Table 915-1
Project Name / Number: Southern Ute DD 4
Project Manager: Jerrid Brann

Reported:
09/03/25 08:31

BG01

2508305-04 (Soil)

Sampled Date: 08/18/25 13:50

Sampled By: Jerrid Brann

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

Petroleum Hydrocarbons by GC FID

Surrogate: 1-Chlorooctadecane			85.9 %	40.6-153		08/19/25 21:09	8015B		MS
Surrogate: 1-Chlorooctane			83.2 %	44.4-145		08/19/25 21:09	8015B		MS

VOLATILES BY GC/MS

1,2,4-Trimethylbenzene	<0.0250	0.0250	0.00285	mg/kg	50	08/22/25 00:10	8260B		SK
1,3,5-Trimethylbenzene	<0.0250	0.0250	0.00190	mg/kg	50	08/22/25 00:10	8260B		SK
Benzene*	<0.0250	0.0250	0.00262	mg/kg	50	08/22/25 00:10	8260B		SK
Ethylbenzene*	<0.0250	0.0250	0.00200	mg/kg	50	08/22/25 00:10	8260B		SK
m+p - Xylene*	<0.0500	0.0500	0.00360	mg/kg	50	08/22/25 00:10	8260B		SK
Naphthalene*	<0.0250	0.0250	0.00195	mg/kg	50	08/22/25 00:10	8260B		SK
o-Xylene*	<0.0250	0.0250	0.00400	mg/kg	50	08/22/25 00:10	8260B		SK
Toluene*	<0.0250	0.0250	0.00480	mg/kg	50	08/22/25 00:10	8260B		SK
Total Xylenes*	<0.0500	0.0500	0.00760	mg/kg	50	08/22/25 00:10	8260B		SK
Surrogate: 4-Bromofluorobenzene			86.8 %	82.5-117		08/22/25 00:10	8260B		SK
Surrogate: Dibromofluoromethane			120 %	84.6-114		08/22/25 00:10	8260B	S-05	SK
Surrogate: Toluene-d8			101 %	90.4-109		08/22/25 00:10	8260B		SK

Polynuclear Aromatic Compounds by GC/MS

1-Methylnaphthalene	<0.040	0.040	0.002	mg/kg	40	08/23/25 00:20	8270C		SK
2-Methylnaphthalene*	<0.040	0.040	0.002	mg/kg	40	08/23/25 00:20	8270C		SK
Acenaphthene*	<0.040	0.040	0.001	mg/kg	40	08/23/25 00:20	8270C		SK
Anthracene*	<0.040	0.040	0.002	mg/kg	40	08/23/25 00:20	8270C		SK
Benzo[a]anthracene*	<0.040	0.040	0.010	mg/kg	40	08/23/25 00:20	8270C		SK
Benzo[a]pyrene*	<0.040	0.040	0.001	mg/kg	40	08/23/25 00:20	8270C		SK
Benzo[b]fluoranthene*	<0.040	0.040	0.001	mg/kg	40	08/23/25 00:20	8270C		SK
Benzo[k]fluoranthene*	<0.040	0.040	0.002	mg/kg	40	08/23/25 00:20	8270C		SK
Chrysene	<0.040	0.040	0.002	mg/kg	40	08/23/25 00:20	8270C		SK
Dibenz[a,h]anthracene*	<0.040	0.040	0.001	mg/kg	40	08/23/25 00:20	8270C		SK

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Reporting Station For Jeremy D Allen, Laboratory Director

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IKAV Energy
1199 Main Ave Suite 101
Durango CO, 81303

Project: ECMC Table 915-1
Project Name / Number: Southern Ute DD 4
Project Manager: Jerrid Brann

Reported:
09/03/25 08:31

BG01

2508305-04 (Soil)

Sampled Date: 08/18/25 13:50

Sampled By: Jerrid Brann

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

Fluoranthene*	<0.040	0.040	0.0006	mg/kg	40	08/23/25 00:20	8270C		SK
Fluorene*	<0.040	0.040	0.0006	mg/kg	40	08/23/25 00:20	8270C		SK
Indeno[1,2,3-cd]pyrene*	<0.040	0.040	0.001	mg/kg	40	08/23/25 00:20	8270C		SK
Naphthalene*	<0.040	0.040	0.002	mg/kg	40	08/23/25 00:20	8270C		SK
Pyrene*	<0.040	0.040	0.001	mg/kg	40	08/23/25 00:20	8270C		SK
<i>Surrogate: 2-Fluorobiphenyl</i>			43.3 %	7.39-192		08/23/25 00:20	8270C		SK
<i>Surrogate: Nitrobenzene-d5</i>			49.3 %	5.17-184		08/23/25 00:20	8270C		SK
<i>Surrogate: Terphenyl-d14</i>			38.4 %	27.5-139		08/23/25 00:20	8270C		SK

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IKAV Energy
1199 Main Ave Suite 101
Durango CO, 81303

Project: ECMC Table 915-1
Project Name / Number: Southern Ute DD 4
Project Manager: Jerrid Brann

Reported:
09/03/25 08:31

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B252665 - General Prep - Wet Chem										
Blank (B252665-BLK1) Prepared: 08/29/25 Analyzed: 09/02/25										
Hexavalent Chromium	ND	0.250	mg/kg dry							
LCS (B252665-BS1) Prepared: 08/29/25 Analyzed: 09/02/25										
Hexavalent Chromium	2.17	0.250	mg/kg dry	2.50		86.8	85-115			

Saturated Paste Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B252646 - Paste Extract										
Blank (B252646-BLK1) Prepared: 08/25/25 Analyzed: 08/28/25										
Calcium	ND	0.100	mg/L							
Magnesium	ND	0.100	mg/L							
SAR	0.00		No Unit							
Sodium	ND	1.00	mg/L							
Duplicate (B252646-DUP1) Source: 2508304-01 Prepared: 08/25/25 Analyzed: 08/28/25										
Calcium	63.3	0.500	mg/L		57.9			8.87	20	
Magnesium	17.1	0.500	mg/L		15.3			11.3	20	
SAR	5.53		No Unit		4.86			12.9	20	
Sodium	192	5.00	mg/L		161			17.4	20	
Reference (B252646-SRM1) Prepared: 08/25/25 Analyzed: 08/28/25										
SAR	17.7		No Unit	20.7		85.8	90-110			BS3
Batch B252647 - Paste Extract										
Duplicate (B252647-DUP1) Source: 2508304-01 Prepared: 08/25/25 Analyzed: 08/26/25										
pH	7.68		pH Units		7.65			0.391	20	
Reference (B252647-SRM1) Prepared: 08/25/25 Analyzed: 08/26/25										
pH	7.81		pH Units	7.90		98.9	92-108			
Batch B252648 - Paste Extract										
Duplicate (B252648-DUP1) Source: 2508304-01 Prepared: 08/25/25 Analyzed: 08/26/25										

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IKAV Energy
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Durango CO, 81303

Project: ECMC Table 915-1
Project Name / Number: Southern Ute DD 4
Project Manager: Jerrid Brann

Reported:
09/03/25 08:31

**Saturated Paste Extraction - Quality Control
(Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B252648 - Paste Extract (Continued)

Duplicate (B252648-DUP1) (Continued)

Source: 2508304-01 Prepared: 08/25/25 Analyzed: 08/26/25

Conductivity	1320		umho/cm@2 5C		1150			14.3	20	
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Reference (B252648-SRM1)

Prepared: 08/25/25 Analyzed: 08/26/25

Conductivity	4180		umho/cm@2 5C	4490		93.2	90-110			
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A handwritten signature in blue ink that reads 'Jeremy D. Allen'.

Reporting Station For Jeremy D Allen, Laboratory Director

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IKAV Energy
1199 Main Ave Suite 101
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Project: ECMC Table 915-1
Project Name / Number: Southern Ute DD 4
Project Manager: Jerrid Brann

Reported:
09/03/25 08:31

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 B252637 - EPA 3050

Blank (B252637-BLK1)

Prepared: 08/25/25 Analyzed: 08/28/25

Barium	ND	5.00	mg/kg dry							
Cadmium	ND	5.00	mg/kg dry							
Copper	ND	10.0	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 (B252637-BS1)

Prepared: 08/25/25 Analyzed: 08/28/25

Barium	189	5.00	mg/kg dry	200		94.6	80-120			
Cadmium	176	5.00	mg/kg dry	200		88.2	80-120			
Copper	394	10.0	mg/kg dry	400		98.6	80-120			
Lead	186	10.0	mg/kg dry	200		92.8	80-120			
Nickel	181	5.00	mg/kg dry	200		90.5	80-120			
Selenium	763	20.0	mg/kg dry	800		95.4	80-120			
Silver	9.48	1.00	mg/kg dry	10.0		94.8	80-120			
Zinc	173	10.0	mg/kg dry	200		86.5	80-120			

LCS Dup (B252637-BSD1)

Prepared: 08/25/25 Analyzed: 08/28/25

Barium	190	5.00	mg/kg dry	200		95.1	80-120	0.532	20	
Cadmium	177	5.00	mg/kg dry	200		88.7	80-120	0.552	20	
Copper	395	10.0	mg/kg dry	400		98.8	80-120	0.213	20	
Lead	188	10.0	mg/kg dry	200		93.8	80-120	1.03	20	
Nickel	182	5.00	mg/kg dry	200		90.9	80-120	0.457	20	
Selenium	757	20.0	mg/kg dry	800		94.6	80-120	0.790	20	
Silver	9.56	1.00	mg/kg dry	10.0		95.6	80-120	0.924	20	
Zinc	174	10.0	mg/kg dry	200		86.9	80-120	0.442	20	

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IKAV Energy
1199 Main Ave Suite 101
Durango CO, 81303

Project: ECMC Table 915-1
Project Name / Number: Southern Ute DD 4
Project Manager: Jerrid Brann

Reported:
09/03/25 08:31

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 B252636 - EPA 3050M

Blank (B252636-BLK1)

Prepared: 08/25/25 Analyzed: 08/28/25

Arsenic ND 0.100 mg/kg dry

LCS (B252636-BS1)

Prepared: 08/25/25 Analyzed: 08/28/25

Arsenic 4.68 0.100 mg/kg dry 5.00 93.5 80-120

LCS Dup (B252636-BSD1)

Prepared: 08/25/25 Analyzed: 08/28/25

Arsenic 4.70 0.100 mg/kg dry 5.00 94.1 80-120 0.606 20

Hot Water Extractable - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B252652 - General Prep-SOILS

Blank (B252652-BLK1)

Prepared: 08/25/25 Analyzed: 08/28/25

Boron ND 1.20 mg/L

Duplicate (B252652-DUP1)

Source: 2508304-01 Prepared: 08/25/25 Analyzed: 08/28/25

Boron 1.35 3.00 mg/L 0.926 36.9 200

Duplicate (B252652-DUP2)

Source: 2508305-01 Prepared: 08/25/25 Analyzed: 08/28/25

Boron 1.06 3.00 mg/L 0.712 39.1 200

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IKAV Energy
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Durango CO, 81303

Project: ECMC Table 915-1
Project Name / Number: Southern Ute DD 4
Project Manager: Jerrid Brann

Reported:
09/03/25 08:31

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 5081917 - General Prep - Organics

Blank (5081917-BLK1)

Prepared & Analyzed: 08/19/25

Surrogate: 1-Chlorooctadecane	38.9		mg/kg	50.0		77.9	40.6-153			
Surrogate: 1-Chlorooctane	38.0		mg/kg	50.0		76.0	44.4-145			
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 (5081917-BS1)

Prepared & Analyzed: 08/19/25

Surrogate: 1-Chlorooctadecane	44.8		mg/kg	50.0		89.7	40.6-153			
Surrogate: 1-Chlorooctane	41.9		mg/kg	50.0		83.8	44.4-145			
DRO >C10-C28	172	10.0	mg/kg	200		86.1	77.7-122			
GRO C6-C10	195	10.0	mg/kg	200		97.5	81.5-123			
Total TPH C6-C28	367	10.0	mg/kg	400		91.8	80.9-121			

LCS Dup (5081917-BSD1)

Prepared & Analyzed: 08/19/25

Surrogate: 1-Chlorooctadecane	42.9		mg/kg	50.0		85.8	40.6-153			
Surrogate: 1-Chlorooctane	40.8		mg/kg	50.0		81.5	44.4-145			
DRO >C10-C28	168	10.0	mg/kg	200		84.0	77.7-122	2.45	15.6	
GRO C6-C10	190	10.0	mg/kg	200		94.9	81.5-123	2.73	13	
Total TPH C6-C28	358	10.0	mg/kg	400		89.4	80.9-121	2.60	18.5	

Batch 5081923 - General Prep - Organics

Blank (5081923-BLK1)

Prepared & Analyzed: 08/19/25

Surrogate: 1-Chlorooctadecane	44.5		mg/kg	50.0		89.0	40.6-153			
Surrogate: 1-Chlorooctane	45.0		mg/kg	50.0		90.0	44.4-145			
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 (5081923-BS1)

Prepared & Analyzed: 08/19/25

Surrogate: 1-Chlorooctadecane	47.0		mg/kg	50.0		94.0	40.6-153			
Surrogate: 1-Chlorooctane	45.4		mg/kg	50.0		90.8	44.4-145			
DRO >C10-C28	194	10.0	mg/kg	200		96.9	77.7-122			
GRO C6-C10	199	10.0	mg/kg	200		99.6	81.5-123			
Total TPH C6-C28	393	10.0	mg/kg	400		98.3	80.9-121			

LCS Dup (5081923-BSD1)

Prepared & Analyzed: 08/19/25

Surrogate: 1-Chlorooctadecane	47.3		mg/kg	50.0		94.7	40.6-153			
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IKAV Energy
1199 Main Ave Suite 101
Durango CO, 81303

Project: ECMC Table 915-1
Project Name / Number: Southern Ute DD 4
Project Manager: Jerrid Brann

Reported:
09/03/25 08:31

**Petroleum Hydrocarbons by GC FID - Quality Control
(Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5081923 - General Prep - Organics (Continued)

LCS Dup (5081923-BSD1) (Continued)

Prepared & Analyzed: 08/19/25

<i>Surrogate: 1-Chlorooctane</i>	46.1		mg/kg	50.0		92.2	44.4-145			
DRO >C10-C28	197	10.0	mg/kg	200		98.4	77.7-122	1.46	15.6	
GRO C6-C10	203	10.0	mg/kg	200		101	81.5-123	1.85	13	
Total TPH C6-C28	400	10.0	mg/kg	400		99.9	80.9-121	1.66	18.5	

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

Reporting Station For Jeremy D Allen, Laboratory Director

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IKAV Energy
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Durango CO, 81303

Project: ECMC Table 915-1
Project Name / Number: Southern Ute DD 4
Project Manager: Jerrid Brann

Reported:
09/03/25 08:31

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 5082102 - Volatiles

Blank (5082102-BLK1)

Prepared & Analyzed: 08/21/25

1,2,4-Trimethylbenzene	ND	0.0250	mg/kg							
1,3,5-Trimethylbenzene	ND	0.0250	mg/kg							
<i>Surrogate: 4-Bromofluorobenzene</i>	2.23		mg/kg	2.50		89.1	82.5-117			
Benzene	ND	0.0250	mg/kg							
<i>Surrogate: Dibromofluoromethane</i>	2.90		mg/kg	2.50		116	84.6-114			S-05
Ethylbenzene	ND	0.0250	mg/kg							
m+p - Xylene	ND	0.0500	mg/kg							
Naphthalene	0.0275	0.0250	mg/kg							
o-Xylene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	mg/kg							
<i>Surrogate: Toluene-d8</i>	2.50		mg/kg	2.50		100	90.4-109			
Total Xylenes	ND	0.0500	mg/kg							

LCS (5082102-BS1)

Prepared & Analyzed: 08/21/25

1,2,4-Trimethylbenzene	0.491	0.0250	mg/kg	0.500		98.1	62.4-140			
1,3,5-Trimethylbenzene	0.478	0.0250	mg/kg	0.500		95.7	64.4-138			
<i>Surrogate: 4-Bromofluorobenzene</i>	2.33		mg/kg	2.50		93.3	82.5-117			
Benzene	0.530	0.0250	mg/kg	0.500		106	73-130			
<i>Surrogate: Dibromofluoromethane</i>	3.92		mg/kg	2.50		157	84.6-114			S-12
Ethylbenzene	0.482	0.0250	mg/kg	0.500		96.5	75.4-127			
m+p - Xylene	0.955	0.0500	mg/kg	1.00		95.5	71.8-133			
Naphthalene	0.391	0.0250	mg/kg	0.500		78.1	28.7-158			
o-Xylene	0.446	0.0250	mg/kg	0.500		89.3	78.6-125			
Toluene	0.491	0.0250	mg/kg	0.500		98.2	79-122			
<i>Surrogate: Toluene-d8</i>	2.47		mg/kg	2.50		98.8	90.4-109			
Total Xylenes	1.40	0.0500	mg/kg	1.50		93.4	74.6-130			

LCS Dup (5082102-BSD1)

Prepared & Analyzed: 08/21/25

1,2,4-Trimethylbenzene	0.421	0.0250	mg/kg	0.500		84.1	62.4-140	15.4	38.2	
1,3,5-Trimethylbenzene	0.426	0.0250	mg/kg	0.500		85.2	64.4-138	11.6	39.1	
<i>Surrogate: 4-Bromofluorobenzene</i>	2.31		mg/kg	2.50		92.4	82.5-117			
Benzene	0.479	0.0250	mg/kg	0.500		95.8	73-130	10.0	17.1	
<i>Surrogate: Dibromofluoromethane</i>	2.98		mg/kg	2.50		119	84.6-114			S-12
Ethylbenzene	0.451	0.0250	mg/kg	0.500		90.3	75.4-127	6.67	16.5	
m+p - Xylene	0.877	0.0500	mg/kg	1.00		87.7	71.8-133	8.48	19.1	
Naphthalene	0.540	0.0250	mg/kg	0.500		108	28.7-158	32.2	64	
o-Xylene	0.405	0.0250	mg/kg	0.500		81.0	78.6-125	9.74	13.2	
Toluene	0.463	0.0250	mg/kg	0.500		92.6	79-122	5.88	18.3	

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Reporting Station For Jeremy D Allen, Laboratory Director



IKAV Energy
1199 Main Ave Suite 101
Durango CO, 81303

Project: ECMC Table 915-1
Project Name / Number: Southern Ute DD 4
Project Manager: Jerrid Brann

Reported:
09/03/25 08:31

**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 5082102 - Volatiles (Continued)

LCS Dup (5082102-BSD1) (Continued)

Prepared & Analyzed: 08/21/25

<i>Surrogate: Toluene-d8</i>	2.50		mg/kg	2.50		99.8	90.4-109			
Total Xylenes	1.28	0.0500	mg/kg	1.50		85.5	74.6-130	8.88	16.5	

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Durango CO, 81303

Project: ECMC Table 915-1
Project Name / Number: Southern Ute DD 4
Project Manager: Jerrid Brann

Reported:
09/03/25 08:31

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 5082101 - SW846-3546

Blank (5082101-BLK1)

Prepared & Analyzed: 08/22/25

1-Methylnaphthalene	ND	0.040	mg/kg							
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>1.33</i>		mg/kg	<i>2.00</i>		<i>66.4</i>	<i>7.39-192</i>			
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]fluoranthene	ND	0.040	mg/kg							
Benzo[k]fluoranthene	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>1.47</i>		mg/kg	<i>2.00</i>		<i>73.7</i>	<i>5.17-184</i>			
Pyrene	ND	0.040	mg/kg							
<i>Surrogate: Terphenyl-d14</i>	<i>1.53</i>		mg/kg	<i>2.00</i>		<i>76.6</i>	<i>27.5-139</i>			

LCS (5082101-BS1)

Prepared & Analyzed: 08/22/25

1-Methylnaphthalene	0.295	0.040	mg/kg	0.400		73.8	47.6-126			
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>1.21</i>		mg/kg	<i>2.00</i>		<i>60.5</i>	<i>7.39-192</i>			
2-Methylnaphthalene	0.278	0.040	mg/kg	0.400		69.6	48.1-126			
Acenaphthene	0.296	0.040	mg/kg	0.400		73.9	49.4-119			
Acenaphthylene	0.302	0.040	mg/kg	0.400		75.6	50.2-124			
Anthracene	0.340	0.040	mg/kg	0.400		85.1	51.9-120			
Benzo[a]anthracene	0.357	0.040	mg/kg	0.400		89.3	49.9-123			
Benzo[a]pyrene	0.383	0.040	mg/kg	0.400		95.6	52.9-126			
Benzo[b]fluoranthene	0.370	0.040	mg/kg	0.400		92.4	52.1-125			
Benzo[g,h,i]perylene	0.374	0.040	mg/kg	0.400		93.6	50.7-130			
Benzo[k]fluoranthene	0.342	0.040	mg/kg	0.400		85.5	49.3-131			
Carbazole	0.377	0.040	mg/kg	0.400		94.1	54-123			
Chrysene	0.363	0.040	mg/kg	0.400		90.8	50.1-125			
Dibenz[a,h]anthracene	0.384	0.040	mg/kg	0.400		95.9	51.7-129			
Fluoranthene	0.364	0.040	mg/kg	0.400		90.9	54.9-126			
Fluorene	0.311	0.040	mg/kg	0.400		77.7	50.1-126			
Indeno[1,2,3-cd]pyrene	0.414	0.040	mg/kg	0.400		104	50-132			
Naphthalene	0.269	0.040	mg/kg	0.400		67.3	46.9-122			

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Reporting Station For Jeremy D Allen, Laboratory Director



IKAV Energy
1199 Main Ave Suite 101
Durango CO, 81303

Project: ECMC Table 915-1
Project Name / Number: Southern Ute DD 4
Project Manager: Jerrid Brann

Reported:
09/03/25 08:31

**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 5082101 - SW846-3546 (Continued)

LCS (5082101-BS1) (Continued)

Prepared & Analyzed: 08/22/25

<i>Surrogate: Nitrobenzene-d5</i>	1.28		mg/kg	2.00		64.1	5.17-184			
Phenanthrene	0.364	0.040	mg/kg	0.400		91.0	53.6-120			
Pyrene	0.360	0.040	mg/kg	0.400		90.0	50.2-124			
<i>Surrogate: Terphenyl-dl4</i>	1.36		mg/kg	2.00		67.9	27.5-139			

LCS Dup (5082101-BS1)

Prepared & Analyzed: 08/22/25

1-Methylnaphthalene	0.285	0.040	mg/kg	0.400		71.3	47.6-126	3.51	6.22	
<i>Surrogate: 2-Fluorobiphenyl</i>	1.19		mg/kg	2.00		59.7	7.39-192			
2-Methylnaphthalene	0.284	0.040	mg/kg	0.400		71.1	48.1-126	2.13	6.23	
Acenaphthene	0.287	0.040	mg/kg	0.400		71.7	49.4-119	3.02	8.18	
Acenaphthylene	0.304	0.040	mg/kg	0.400		76.1	50.2-124	0.666	5	
Anthracene	0.345	0.040	mg/kg	0.400		86.3	51.9-120	1.48	3.68	
Benzo[a]anthracene	0.357	0.040	mg/kg	0.400		89.2	49.9-123	0.137	9.01	
Benzo[a]pyrene	0.379	0.040	mg/kg	0.400		94.8	52.9-126	0.840	4.92	
Benzo[b]fluoranthene	0.372	0.040	mg/kg	0.400		93.0	52.1-125	0.650	7.63	
Benzo[g,h,i]perylene	0.379	0.040	mg/kg	0.400		94.8	50.7-130	1.26	12.5	
Benzo[k]fluoranthene	0.359	0.040	mg/kg	0.400		89.7	49.3-131	4.88	10.6	
Carbazole	0.378	0.040	mg/kg	0.400		94.5	54-123	0.379	8.65	
Chrysene	0.353	0.040	mg/kg	0.400		88.4	50.1-125	2.72	21.8	
Dibenz[a,h]anthracene	0.381	0.040	mg/kg	0.400		95.3	51.7-129	0.661	11.6	
Fluoranthene	0.355	0.040	mg/kg	0.400		88.8	54.9-126	2.33	7.54	
Fluorene	0.320	0.040	mg/kg	0.400		80.1	50.1-126	3.06	5.49	
Indeno[1,2,3-cd]pyrene	0.420	0.040	mg/kg	0.400		105	50-132	1.32	22.3	
Naphthalene	0.278	0.040	mg/kg	0.400		69.6	46.9-122	3.25	4.56	
<i>Surrogate: Nitrobenzene-d5</i>	1.27		mg/kg	2.00		63.7	5.17-184			
Phenanthrene	0.349	0.040	mg/kg	0.400		87.2	53.6-120	4.32	5.21	
Pyrene	0.350	0.040	mg/kg	0.400		87.5	50.2-124	2.85	10.6	
<i>Surrogate: Terphenyl-dl4</i>	1.25		mg/kg	2.00		62.7	27.5-139			

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Reporting Station For Jeremy D Allen, Laboratory Director

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IKAV Energy
1199 Main Ave Suite 101
Durango CO, 81303

Project: ECMC Table 915-1
Project Name / Number: Southern Ute DD 4
Project Manager: Jerrid Brann

Reported:
09/03/25 08:31

Notes and Definitions

S-12	The surrogate recovery in the LCS/LCSD, MS and/or MSD was bias high. The surrogate recovery in associated samples was bias high and the samples were ND. No negative impact on the data is expected.
S-05	The surrogate recovery is outside of lab established statistical control limits but still within method limits. Data is not adversely affected.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
M3	Matrix spike recovery did not meet acceptance criteria. Accuracy of the spike is reduced since the analyte concentration in the sample is more than four times the spike level.
M2	Matrix spike recovery was below laboratory acceptance criteria. Recovery possibly affected by a matrix interference in the sample. The method blank spike recovery was acceptable.
BS3	Laboratory control sample did not meet laboratory acceptance criteria.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis *Results reported on as received basis unless designated as dry.
RPD	Relative Percent Difference
LCS	Laboratory Control Sample (Blank Spike)
RL	Report Limit
MDL	Method Detection Limit

Green Analytical Laboratories

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

Reporting Station For Jeremy D Allen, Laboratory Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.



SAMPLE CONDITION RECEIPT FORM

Date/Initials of person examining contents:	<u>MPW</u> <u>8-18-25</u>
Labeled by initials:	_____
<small>(if different than above)</small>	

Client Name: IKAV Energy

Work Order # 2508-305

Courier: Fed Ex UPS USPS Client Kangaroo Third Party Other

Custody Seals on Box/Cooler Present: Yes No Seals Intact: Yes No GAL Cooler #: _____

Thermometer Used: #2 Samples on ice, cooling process has begun: Yes No

Type of Ice: Wet Blue None Cooler Temp: Observed Temp: 12.7°C Correction Factor: 0°C Final Temp: 12.7°C

* Temp should be above freezing 6°C

Compliance: Yes No

Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
COC Signed when Relinquished and Received:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Sampler Name and Signature on COC: <small>*Required for compliance</small>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.
Samples arrived within hold time: <small>(Excluding pH)</small>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	4.
Correct Containers Used & Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
Short Hold Time Analysis (<72hr): <small>(Excluding pH)</small>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
pH's acceptable upon receipt, where applicable: <small>*Not including metals bottles</small>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	9.
Dissolved Testing Needed:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	10.
Field Filtered: <input type="checkbox"/> Yes <input type="checkbox"/> No		
Sample Labels match COC: <small>-Includes Date/Time/ID</small>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	11.
Matrix:	WT <input checked="" type="checkbox"/> SL <input type="checkbox"/> OT	
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Trip Blank Custody Seals Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
VOA's meet headspace requirement (<6mm bubbles)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Non-Conformance(s):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	13.

Client Notification/Resolution:

Person Contacted: _____

Date/Time: _____

Comments/Resolution: _____

