



75 Suttle Street
Durango, CO 81303
970.247.4220 Phone
970.247.4227 Fax
www.greenanalytical.com

08 December 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 11/19/21 16:40. 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



Cottonwood Consulting
PO Box 1653
Durango CO, 81302

Project: COGCC Table 915-1
Project Name / Number: Underwood Ditch (OWP) #2
Project Manager: Jake Harter

Reported:
12/08/21 14:46

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
SS01	2111279-01	Solid	11/19/21 12:10	11/19/21 16:40	

Green Analytical Laboratories

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

Debbie Zufelt, Reports Manager

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Project: COGCC Table 915-1
Project Name / Number: Underwood Ditch (OWP) #2
Project Manager: Jake Harter

Reported:
12/08/21 14:46

SS01**2111279-01 (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	12/03/21 10:00	3060A/3500-Cr D		JDA
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Saturated Paste Extraction

Calcium	47.0	0.100	0.058	mg/L	1	12/04/21 15:53	EPA200.7		AES
Conductivity	412			umho/cm @ 25.0°C	1	12/03/21 10:35	ASA#9 10-3.3		VJW
Magnesium	8.92	0.100	0.065	mg/L	1	12/04/21 15:53	EPA200.7		AES
pH	7.09			pH Units	1	12/03/21 08:05	ASA#9 10-3.2		VJW
SAR	0.69			No Unit	1	12/04/21 15:53	Calculation		AES
Sodium	19.8	1.00	0.079	mg/L	1	12/04/21 15:53	EPA200.7		AES

Total Metals by ICP

Barium	93.8	5.00	0.390	mg/kg dry	100	12/04/21 14:18	6010B		AES
Cadmium	<5.00	5.00	1.10	mg/kg dry	100	12/04/21 14:18	6010B		AES
Chromium	18.8	5.00	0.400	mg/kg dry	100	12/04/21 14:18	6010B		AES
Copper	32.7	5.00	2.39	mg/kg dry	100	12/04/21 14:18	6010B		AES
Lead	12.4	10.0	0.906	mg/kg dry	100	12/04/21 14:18	6010B		AES
Nickel	15.4	5.00	0.874	mg/kg dry	100	12/04/21 14:18	6010B		AES
Selenium	<20.0	20.0	4.70	mg/kg dry	100	12/04/21 14:18	6010B		AES
Silver	<1.00	1.00	0.688	mg/kg dry	100	12/04/21 14:18	6010B		AES
Zinc	71.8	10.0	1.71	mg/kg dry	100	12/04/21 14:18	6010B		AES

Total Metals by ICPMS

Arsenic	9.80	1.00	0.0950	mg/kg dry	1000	12/04/21 11:01	6020A		AES
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Hot Water Extractable

Boron	<1.20	1.20	0.568	mg/L	4	12/04/21 15:24	EPA200.7		AES
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	11/24/21 23:26	8015B		MS
DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	11/24/21 23:26	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	11/24/21 23:26	8015B		MS

Surrogate: 1-Chlorooctane 82.4 % 44.3-133 11/24/21 23:26 8015B MS

Surrogate: 1-Chlorooctadecane 85.3 % 38.9-142 11/24/21 23:26 8015B MS

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Project Name / Number: Underwood Ditch (OWP) #2
Project Manager: Jake Harter

Reported:
12/08/21 14:46

SS01

2111279-01 (Soil)

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

VOLATILES BY GC/MS

Benzene*	<0.0250	0.0250	0.00885	mg/kg	50	11/30/21 15:30	8260B		MS
Toluene*	<0.0250	0.0250	0.00670	mg/kg	50	11/30/21 15:30	8260B		MS
Ethylbenzene*	<0.0250	0.0250	0.00405	mg/kg	50	11/30/21 15:30	8260B		MS
m+p - Xylene*	<0.0500	0.0500	0.0186	mg/kg	50	11/30/21 15:30	8260B		MS
o-Xylene*	<0.0250	0.0250	0.00700	mg/kg	50	11/30/21 15:30	8260B		MS
Total Xylenes*	<0.0750	0.0750	0.0256	mg/kg	50	11/30/21 15:30	8260B		MS
1,3,5-Trimethylbenzene	<0.0250	0.0250	0.00450	mg/kg	50	11/30/21 15:30	8260B		MS
1,2,4-Trimethylbenzene	<0.0250	0.0250	0.00650	mg/kg	50	11/30/21 15:30	8260B		MS
Naphthalene*	<0.0250	0.0250	0.00500	mg/kg	50	11/30/21 15:30	8260B		MS

Surrogate: Dibromofluoromethane 99.3 % 84.6-114 11/30/21 15:30 8260B MS

Surrogate: Toluene-d8 102 % 90.4-109 11/30/21 15:30 8260B MS

Surrogate: 4-Bromofluorobenzene 95.2 % 82.5-117 11/30/21 15:30 8260B MS

Polynuclear Aromatic Compounds by GC/MS

Naphthalene*	<0.015	0.040	0.015	mg/kg	40	12/06/21 17:58	8270C		MS
2-Methylnaphthalene*	<0.023	0.040	0.023	mg/kg	40	12/06/21 17:58	8270C		MS
1-Methylnaphthalene	<0.016	0.040	0.016	mg/kg	40	12/06/21 17:58	8270C		MS
Acenaphthene*	<0.024	0.040	0.024	mg/kg	40	12/06/21 17:58	8270C		MS
Fluorene*	<0.014	0.040	0.014	mg/kg	40	12/06/21 17:58	8270C		MS
Anthracene*	<0.017	0.040	0.017	mg/kg	40	12/06/21 17:58	8270C		MS
Fluoranthene*	<0.019	0.040	0.019	mg/kg	40	12/06/21 17:58	8270C		MS
Pyrene*	<0.013	0.040	0.013	mg/kg	40	12/06/21 17:58	8270C		MS
Benzo[a]anthracene*	<0.023	0.040	0.023	mg/kg	40	12/06/21 17:58	8270C		MS
Chrysene*	<0.017	0.040	0.017	mg/kg	40	12/06/21 17:58	8270C		MS
Benzo[b]fluoranthene*	<0.019	0.040	0.019	mg/kg	40	12/06/21 17:58	8270C		MS
Benzo[k]fluoranthene*	<0.016	0.040	0.016	mg/kg	40	12/06/21 17:58	8270C		MS
Benzo[a]pyrene*	<0.018	0.040	0.018	mg/kg	40	12/06/21 17:58	8270C		MS
Indeno[1,2,3-cd]pyrene*	<0.017	0.040	0.017	mg/kg	40	12/06/21 17:58	8270C		MS
Dibenz[a,h]anthracene*	<0.019	0.040	0.019	mg/kg	40	12/06/21 17:58	8270C		MS

Surrogate: Nitrobenzene-d5 76.3 % 39.6-121 12/06/21 17:58 8270C MS

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Project: COGCC Table 915-1
Project Name / Number: Underwood Ditch (OWP) #2
Project Manager: Jake Harter

Reported:
12/08/21 14:46

SS01

2111279-01 (Soil)

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

Polynuclear Aromatic Compounds by GC/MS

Surrogate: 2-Fluorobiphenyl	82.3 %	39.8-134				12/06/21 17:58	8270C		MS
Surrogate: Terphenyl-dl4	90.8 %	33.3-136				12/06/21 17:58	8270C		MS

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Project Manager: Jake Harter

Reported:
12/08/21 14:46

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 B212947 - General Prep - Wet Chem

Blank (B212947-BLK1)

Prepared: 12/01/21 Analyzed: 12/03/21

Hexavalent Chromium	ND	0.250	mg/kg							
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LCS (B212947-BS1)

Prepared: 12/01/21 Analyzed: 12/03/21

Hexavalent Chromium	2.37	0.250	mg/kg	2.50		94.8	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 B212908 - Paste Extract

Blank (B212908-BLK1)

Prepared: 12/02/21 Analyzed: 12/04/21

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

Duplicate (B212908-DUP1)

Source: 2111299-02

Prepared: 12/02/21 Analyzed: 12/04/21

Calcium	87.8	0.100	mg/L		88.2			0.518	20	
Magnesium	17.2	0.100	mg/L		17.6			2.19	20	
SAR	1.70		No Unit		1.64			3.59	20	
Sodium	66.7	1.00	mg/L		64.5			3.26	20	

Reference (B212908-SRM1)

Prepared: 12/02/21 Analyzed: 12/04/21

SAR	11.8		No Unit	11.7		101	90-110			
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Batch B212909 - Paste Extract

Duplicate (B212909-DUP1)

Source: 2111299-02

Prepared: 12/02/21 Analyzed: 12/03/21

pH	7.49		pH Units		7.39			1.34	20	
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Reference (B212909-SRM1)

Prepared: 12/02/21 Analyzed: 12/03/21

pH	6.26		pH Units	6.32		99.1	92-108			
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Batch B212910 - Paste Extract

Duplicate (B212910-DUP1)

Source: 2111299-02

Prepared: 12/02/21 Analyzed: 12/03/21

Conductivity	926		umho/cm @ 25.0°C		929			0.323	20	
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Project: COGCC Table 915-1
Project Name / Number: Underwood Ditch (OWP) #2
Project Manager: Jake Harter

Reported:
12/08/21 14:46

**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 B212910 - Paste Extract (Continued)

Reference (B212910-SRM1)

Prepared: 12/02/21 Analyzed: 12/03/21

Conductivity	14900		umho/cm @ 25.0°C	14700		102	90-110			
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Project: COGCC Table 915-1
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Reported:
12/08/21 14:46

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 B212953 - EPA 3050

Blank (B212953-BLK1)

Prepared: 12/02/21 Analyzed: 12/04/21

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 (B212953-BS1)

Prepared: 12/02/21 Analyzed: 12/04/21

Barium	185	5.00	mg/kg dry	200	92.5	80-120
Cadmium	175	5.00	mg/kg dry	200	87.6	80-120
Chromium	186	5.00	mg/kg dry	200	92.9	80-120
Copper	384	5.00	mg/kg dry	400	95.9	80-120
Lead	182	10.0	mg/kg dry	200	90.9	80-120
Nickel	182	5.00	mg/kg dry	200	91.1	80-120
Selenium	770	20.0	mg/kg dry	800	96.3	80-120
Silver	9.25	1.00	mg/kg dry	10.0	92.5	80-120
Zinc	177	10.0	mg/kg dry	200	88.4	80-120

LCS Dup (B212953-BSD1)

Prepared: 12/02/21 Analyzed: 12/04/21

Barium	189	5.00	mg/kg dry	200	94.6	80-120	2.20	20
Cadmium	179	5.00	mg/kg dry	200	89.6	80-120	2.15	20
Chromium	190	5.00	mg/kg dry	200	95.1	80-120	2.37	20
Copper	392	5.00	mg/kg dry	400	98.0	80-120	2.21	20
Lead	179	10.0	mg/kg dry	200	89.7	80-120	1.32	20
Nickel	180	5.00	mg/kg dry	200	90.2	80-120	0.988	20
Selenium	791	20.0	mg/kg dry	800	98.9	80-120	2.73	20
Silver	9.51	1.00	mg/kg dry	10.0	95.1	80-120	2.77	20
Zinc	174	10.0	mg/kg dry	200	86.8	80-120	1.73	20

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Project: COGCC Table 915-1
Project Name / Number: Underwood Ditch (OWP) #2
Project Manager: Jake Harter

Reported:
12/08/21 14:46

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 B212954 - EPA 3050M

Blank (B212954-BLK1)

Prepared: 12/02/21 Analyzed: 12/04/21

Arsenic	ND	0.100	mg/kg dry							
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LCS (B212954-BS1)

Prepared: 12/02/21 Analyzed: 12/04/21

Arsenic	5.21	0.100	mg/kg dry	5.00		104	80-120			
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LCS Dup (B212954-BSD1)

Prepared: 12/02/21 Analyzed: 12/04/21

Arsenic	5.21	0.100	mg/kg dry	5.00		104	80-120	0.0829	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 B212907 - Hot Water Soluble Metals Extract

Blank (B212907-BLK1)

Prepared: 11/29/21 Analyzed: 12/04/21

Boron	ND	1.20	mg/L							
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Duplicate (B212907-DUP1)

Source: 2111276-01

Prepared: 11/29/21 Analyzed: 12/04/21

Boron	0.845	1.20	mg/L		0.831			1.68	200	
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Project: COGCC Table 915-1
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Reported:
12/08/21 14:46

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 1112408 - General Prep - Organics

Blank (1112408-BLK1)

Prepared & Analyzed: 11/24/21

Surrogate: 1-Chlorooctadecane	57.5		mg/kg	50.0		115	38.9-142			
Surrogate: 1-Chlorooctane	54.0		mg/kg	50.0		108	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 (1112408-BS1)

Prepared & Analyzed: 11/24/21

Surrogate: 1-Chlorooctadecane	58.9		mg/kg	50.0		118	38.9-142			
Surrogate: 1-Chlorooctane	54.2		mg/kg	50.0		108	44.3-133			
DRO >C10-C28	240	10.0	mg/kg	200		120	79.3-136			
GRO C6-C10	237	10.0	mg/kg	200		119	83.4-129			
Total TPH C6-C28	478	10.0	mg/kg	400		119	85.3-130			

LCS Dup (1112408-BSD1)

Prepared & Analyzed: 11/24/21

Surrogate: 1-Chlorooctadecane	60.0		mg/kg	50.0		120	38.9-142			
Surrogate: 1-Chlorooctane	54.2		mg/kg	50.0		108	44.3-133			
DRO >C10-C28	253	10.0	mg/kg	200		126	79.3-136	4.95	12.1	
GRO C6-C10	242	10.0	mg/kg	200		121	83.4-129	2.05	12.6	
Total TPH C6-C28	495	10.0	mg/kg	400		124	85.3-130	3.52	11.6	

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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: Underwood Ditch (OWP) #2
Project Manager: Jake Harter

Reported:
12/08/21 14:46

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 1113008 - Volatiles**Blank (1113008-BLK1)**

Prepared & Analyzed: 11/30/21

1,2,4-Trimethylbenzene	ND	0.0250	mg/kg						
1,3,5-Trimethylbenzene	ND	0.0250	mg/kg						
Surrogate: 4-Bromofluorobenzene	1.17		mg/kg	1.25		93.9	82.5-117		
Benzene	ND	0.0250	mg/kg						
Surrogate: Dibromofluoromethane	1.22		mg/kg	1.25		97.5	84.6-114		
Ethylbenzene	ND	0.0250	mg/kg						
m+p - Xylene	ND	0.0500	mg/kg						
Naphthalene	ND	0.0250	mg/kg						
o-Xylene	ND	0.0250	mg/kg						
Toluene	ND	0.0250	mg/kg						
Surrogate: Toluene-d8	1.26		mg/kg	1.25		101	90.4-109		
Total Xylenes	ND	0.0750	mg/kg						

LCS (1113008-BS1)

Prepared & Analyzed: 11/30/21

1,2,4-Trimethylbenzene	0.501	0.0250	mg/kg	0.500		100	62.4-140		
1,3,5-Trimethylbenzene	0.504	0.0250	mg/kg	0.500		101	64.4-138		
Surrogate: 4-Bromofluorobenzene	1.27		mg/kg	1.25		102	82.5-117		
Benzene	0.483	0.0250	mg/kg	0.500		96.6	73-130		
Surrogate: Dibromofluoromethane	1.25		mg/kg	1.25		100	84.6-114		
Ethylbenzene	0.496	0.0250	mg/kg	0.500		99.2	75.4-127		
m+p - Xylene	1.00	0.0500	mg/kg	1.00		100	71.8-133		
Naphthalene	0.498	0.0250	mg/kg	0.500		99.6	28.7-158		
o-Xylene	0.502	0.0250	mg/kg	0.500		100	78.6-125		
Toluene	0.479	0.0250	mg/kg	0.500		95.7	79-122		
Surrogate: Toluene-d8	1.26		mg/kg	1.25		101	90.4-109		
Total Xylenes	1.51	0.0750	mg/kg	1.50		100	74.6-130		

LCS Dup (1113008-BSD1)

Prepared & Analyzed: 11/30/21

1,2,4-Trimethylbenzene	0.488	0.0250	mg/kg	0.500		97.7	62.4-140	2.50	38.2
1,3,5-Trimethylbenzene	0.500	0.0250	mg/kg	0.500		99.9	64.4-138	0.800	39.1
Surrogate: 4-Bromofluorobenzene	1.26		mg/kg	1.25		101	82.5-117		
Benzene	0.495	0.0250	mg/kg	0.500		99.0	73-130	2.43	17.1
Surrogate: Dibromofluoromethane	1.24		mg/kg	1.25		99.0	84.6-114		
Ethylbenzene	0.502	0.0250	mg/kg	0.500		100	75.4-127	1.29	16.5
m+p - Xylene	1.00	0.0500	mg/kg	1.00		100	71.8-133	0.0388	19.1
Naphthalene	0.457	0.0250	mg/kg	0.500		91.4	28.7-158	8.58	64
o-Xylene	0.496	0.0250	mg/kg	0.500		99.3	78.6-125	1.08	13.2
Toluene	0.476	0.0250	mg/kg	0.500		95.1	79-122	0.675	18.3

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Project: COGCC Table 915-1
Project Name / Number: Underwood Ditch (OWP) #2
Project Manager: Jake Harter

Reported:
12/08/21 14:46

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 1113008 - Volatiles (Continued)

LCS Dup (1113008-BSD1) (Continued)

Prepared & Analyzed: 11/30/21

Surrogate: Toluene-d8	1.27		mg/kg	1.25		102	90.4-109			
Total Xylenes	1.50	0.0750	mg/kg	1.50		100	74.6-130	0.331	16.5	

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dzufelt@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

www.GreenAnalytical.com

Cottonwood Consulting
PO Box 1653
Durango CO, 81302

Project: COGCC Table 915-1
Project Name / Number: Underwood Ditch (OWP) #2
Project Manager: Jake Harter

Reported:
12/08/21 14:46

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 1113003 - SW846-3510

Blank (1113003-BLK1)

Prepared: 11/30/21 Analyzed: 12/06/21

1-Methylnaphthalene	ND	0.040	mg/kg							
Surrogate: 2-Fluorobiphenyl	1.52		mg/kg	2.00		75.9	39.8-134			
2-Methylnaphthalene	ND	0.040	mg/kg							
Acenaphthene	ND	0.040	mg/kg							
Anthracene	ND	0.040	mg/kg							
Benzo[a]anthracene	ND	0.040	mg/kg							
Benzo[a]pyrene	ND	0.040	mg/kg							
Benzo[b]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							
Surrogate: Nitrobenzene-d5	1.47		mg/kg	2.00		73.5	39.6-121			
Pyrene	ND	0.040	mg/kg							
Surrogate: Terphenyl-d14	1.49		mg/kg	2.00		74.3	33.3-136			

LCS (1113003-BS1)

Prepared: 11/30/21 Analyzed: 12/06/21

1-Methylnaphthalene	0.305	0.040	mg/kg	0.400		76.4	57.6-108			
Surrogate: 2-Fluorobiphenyl	1.49		mg/kg	2.00		74.3	39.8-134			
2-Methylnaphthalene	0.291	0.040	mg/kg	0.400		72.8	59-106			
Acenaphthene	0.300	0.040	mg/kg	0.400		75.1	60.9-105			
Acenaphthylene	0.308	0.040	mg/kg	0.400		77.1	57.4-107			
Anthracene	0.271	0.040	mg/kg	0.400		67.8	60.8-105			
Benzo[a]anthracene	0.289	0.040	mg/kg	0.400		72.3	56.1-121			
Benzo[a]pyrene	0.246	0.040	mg/kg	0.400		61.5	56.7-115			
Benzo[b]fluoranthene	0.287	0.040	mg/kg	0.400		71.8	45.4-128			
Benzo[g,h,i]perylene	0.278	0.040	mg/kg	0.400		69.4	56.5-107			
Benzo[k]fluoranthene	0.273	0.040	mg/kg	0.400		68.2	49.6-119			
Carbazole	0.287	0.040	mg/kg	0.400		71.6	59.7-107			
Chrysene	0.283	0.040	mg/kg	0.400		70.7	12.2-190			
Dibenz[a,h]anthracene	0.280	0.040	mg/kg	0.400		70.1	59.1-111			
Fluoranthene	0.277	0.040	mg/kg	0.400		69.3	60.6-111			
Fluorene	0.282	0.040	mg/kg	0.400		70.5	59.3-108			
Indeno[1,2,3-cd]pyrene	0.288	0.040	mg/kg	0.400		72.0	53.4-116			
Naphthalene	0.302	0.040	mg/kg	0.400		75.4	56.5-106			

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Project: COGCC Table 915-1
Project Name / Number: Underwood Ditch (OWP) #2
Project Manager: Jake Harter

Reported:
12/08/21 14:46

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 1113003 - SW846-3510 (Continued)

LCS (1113003-BS1) (Continued)

Prepared: 11/30/21 Analyzed: 12/06/21

Surrogate: Nitrobenzene-d5	1.47		mg/kg	2.00		73.4	39.6-121			
Phenanthrene	0.275	0.040	mg/kg	0.400		68.7	59.9-107			
Pyrene	0.270	0.040	mg/kg	0.400		67.4	51.5-122			
Surrogate: Terphenyl-d14	1.36		mg/kg	2.00		67.9	33.3-136			

LCS Dup (1113003-BS1)

Prepared: 11/30/21 Analyzed: 12/06/21

1-Methylnaphthalene	0.305	0.040	mg/kg	0.400		76.3	57.6-108	0.0393	6.22	
Surrogate: 2-Fluorobiphenyl	1.50		mg/kg	2.00		74.9	39.8-134			
2-Methylnaphthalene	0.299	0.040	mg/kg	0.400		74.6	59-106	2.54	6.23	
Acenaphthene	0.306	0.040	mg/kg	0.400		76.4	60.9-105	1.77	8.18	
Acenaphthylene	0.309	0.040	mg/kg	0.400		77.2	57.4-107	0.156	5	
Anthracene	0.271	0.040	mg/kg	0.400		67.8	60.8-105	0.0701	3.68	
Benzo[a]anthracene	0.286	0.040	mg/kg	0.400		71.5	56.1-121	1.10	9.01	
Benzo[a]pyrene	0.259	0.040	mg/kg	0.400		64.8	56.7-115	5.31	4.92	QR-04
Benzo[b]fluoranthene	0.287	0.040	mg/kg	0.400		71.7	45.4-128	0.0732	7.63	
Benzo[g,h,i]perylene	0.271	0.040	mg/kg	0.400		67.6	56.5-107	2.55	12.5	
Benzo[k]fluoranthene	0.295	0.040	mg/kg	0.400		73.8	49.6-119	7.95	10.6	
Carbazole	0.274	0.040	mg/kg	0.400		68.6	59.7-107	4.31	8.65	
Chrysene	0.279	0.040	mg/kg	0.400		69.8	12.2-190	1.41	21.8	
Dibenz[a,h]anthracene	0.274	0.040	mg/kg	0.400		68.5	59.1-111	2.36	11.6	
Fluoranthene	0.267	0.040	mg/kg	0.400		66.7	60.6-111	3.95	7.54	
Fluorene	0.284	0.040	mg/kg	0.400		71.0	59.3-108	0.738	5.49	
Indeno[1,2,3-cd]pyrene	0.277	0.040	mg/kg	0.400		69.4	53.4-116	3.68	22.3	
Naphthalene	0.297	0.040	mg/kg	0.400		74.3	56.5-106	1.50	4.56	
Surrogate: Nitrobenzene-d5	1.45		mg/kg	2.00		72.4	39.6-121			
Phenanthrene	0.270	0.040	mg/kg	0.400		67.6	59.9-107	1.71	5.21	
Pyrene	0.285	0.040	mg/kg	0.400		71.3	51.5-122	5.69	10.6	
Surrogate: Terphenyl-d14	1.46		mg/kg	2.00		73.2	33.3-136			

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Project: COGCC Table 915-1
Project Name / Number: Underwood Ditch (OWP) #2
Project Manager: Jake Harter

Reported:
12/08/21 14:46

Notes and Definitions

QR-04 The RPD for the BS/BSD was outside of historical limits.

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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