



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

02 October 2023

Kyle Siesser
Cottonwood Consulting
PO Box 1653
Durango, CO 81302
RE: Turner (OWP) #4

Enclosed are the results of analyses for samples received by the laboratory on 09/14/23 15:00. The data to follow was performed, in whole or in part, by Green Analytical Laboratories. Any data that was performed by a subcontract laboratory is included within the GAL report, or with an additional report attached.

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

Sincerely,

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

Jeremy D Allen
Laboratory Director

All accredited analytes contained in this report are denoted by an asterisk (*). For a complete list of accredited analytes please do not hesitate to contact us via any of the contact information contained in this report. All of our certifications can be viewed at <http://greenanalytical.com/certifications/>

Green Analytical Laboratories is NELAP accredited through the Texas Commission on Environmental Quality. Accreditation applies to drinking water and non-potable water matrices for trace metals and a variety of inorganic parameters. Green Analytical Laboratories is also accredited through the Colorado Department of Public Health and Environment and EPA region 8 for trace metals, Cyanide, Fluoride, Nitrate, and Nitrite in drinking water. TNI Certificate Number: T104704514-23-17

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: T104704398-23-16



Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: Turner (OWP) #4	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	10/02/23 16:33

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
SS01	2309160-01	Solid	09/14/23 12:00	09/14/23 15:00	

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Jeremy D Allen, Laboratory Director

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: Turner (OWP) #4 Project Manager: Kyle Siesser	Reported: 10/02/23 16:33
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SS01

2309160-01 (Soil)

Sampled Date: 09/14/23 12:00

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

Hexavalent Chromium	<0.250	0.250	0.191	mg/kg dry	25	09/21/23 16:16	3060A/3500-Cr B		CAI
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Saturated Paste Extraction

Calcium	36.0	0.100	0.058	mg/L	1	09/25/23 17:12	EPA200.7		AES
Conductivity	312			umho/cm@25 C	1	09/21/23 16:00	ASA#9 10-3.3		AES
Magnesium	14.7	0.100	0.065	mg/L	1	09/25/23 17:13	EPA200.7		AES
pH	8.27			pH Units	1	09/21/23 16:00	ASA#9 10-3.2		AES
SAR	0.68			No Unit	1	09/25/23 17:12	Calculation		AES
Sodium	19.1	1.00	0.079	mg/L	1	09/25/23 17:12	EPA200.7		AES

Total Metals by ICP

Barium	347	5.00	0.942	mg/kg dry	100	09/22/23 16:10	6010B		AES
Cadmium	<5.00	5.00	1.29	mg/kg dry	100	09/22/23 16:10	6010B		AES
Chromium	8.49	5.00	4.53	mg/kg dry	100	09/22/23 16:10	6010B		AES
Copper	13.8	10.0	4.61	mg/kg dry	100	09/22/23 16:10	6010B		AES
Lead	<10.0	10.0	1.88	mg/kg dry	100	09/22/23 16:10	6010B		AES
Nickel	6.34	5.00	1.41	mg/kg dry	100	09/22/23 16:10	6010B		AES
Selenium	<20.0	20.0	9.47	mg/kg dry	100	09/22/23 16:10	6010B		AES
Silver	<1.00	1.00	0.460	mg/kg dry	100	09/22/23 16:10	6010B		AES
Zinc	21.2	10.0	1.24	mg/kg dry	100	09/22/23 16:10	6010B		AES

Total Metals by ICPMS

Arsenic	3.45	1.00	0.158	mg/kg dry	1000	09/22/23 13:28	6020A		AES
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Hot Water Extractable

Boron	<1.20	1.20	0.568	mg/L	4	09/25/23 18:12	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	09/19/23 23:11	8015B		MS
DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	09/19/23 23:11	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	09/19/23 23:11	8015B		MS

Surrogate: 1-Chlorooctane 71.3 % 48.2-134 09/19/23 8015B 23:11 MS

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: Turner (OWP) #4 Project Manager: Kyle Siesser	Reported: 10/02/23 16:33
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SS01

2309160-01 (Soil)

Sampled Date: 09/14/23 12:00

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	79.9 %	49.1-148				09/19/23 23:11	8015B		MS
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VOLATILES BY GC/MS

Benzene*	<0.00885	0.0250	0.00885	mg/kg	50	09/19/23 17:42	8260B		MS
Toluene*	<0.00670	0.0250	0.00670	mg/kg	50	09/19/23 17:42	8260B		MS
Ethylbenzene*	0.00996	0.0250	0.00405	mg/kg	50	09/19/23 17:42	8260B	J	MS
m+p - Xylene*	<0.0186	0.0500	0.0186	mg/kg	50	09/19/23 17:42	8260B		MS
o-Xylene*	<0.00700	0.0250	0.00700	mg/kg	50	09/19/23 17:42	8260B		MS
Total Xylenes*	<0.0256	0.0750	0.0256	mg/kg	50	09/19/23 17:42	8260B		MS
1,3,5-Trimethylbenzene	0.00454	0.0250	0.00450	mg/kg	50	09/19/23 17:42	8260B	J	MS
1,2,4-Trimethylbenzene	0.0148	0.0250	0.00650	mg/kg	50	09/19/23 17:42	8260B	J	MS
Naphthalene*	<0.00500	0.0250	0.00500	mg/kg	50	09/19/23 17:42	8260B		MS

Surrogate: Dibromofluoromethane	101 %	84.6-114				09/19/23 17:42	8260B		MS
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Surrogate: Toluene-d8	104 %	90.4-109				09/19/23 17:42	8260B		MS
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Surrogate: 4-Bromofluorobenzene	92.6 %	82.5-117				09/19/23 17:42	8260B		MS
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Polynuclear Aromatic Compounds by GC/MS

Naphthalene*	<0.015	0.040	0.015	mg/kg	40	09/28/23 19:22	8270C		MS
2-Methylnaphthalene*	<0.023	0.040	0.023	mg/kg	40	09/28/23 19:22	8270C		MS
1-Methylnaphthalene	<0.016	0.040	0.016	mg/kg	40	09/28/23 19:22	8270C		MS
Acenaphthene*	<0.024	0.040	0.024	mg/kg	40	09/28/23 19:22	8270C		MS
Fluorene*	<0.014	0.040	0.014	mg/kg	40	09/28/23 19:22	8270C		MS
Anthracene*	<0.017	0.040	0.017	mg/kg	40	09/28/23 19:22	8270C		MS
Fluoranthene*	<0.019	0.040	0.019	mg/kg	40	09/28/23 19:22	8270C		MS
Pyrene*	<0.013	0.040	0.013	mg/kg	40	09/28/23 19:22	8270C		MS
Benzo[a]anthracene*	<0.023	0.040	0.023	mg/kg	40	09/28/23 19:22	8270C		MS
Chrysene	<0.017	0.040	0.017	mg/kg	40	09/28/23 19:22	8270C		MS
Benzo[b]fluoranthene*	<0.019	0.040	0.019	mg/kg	40	09/28/23 19:22	8270C		MS
Benzo[k]fluoranthene*	<0.016	0.040	0.016	mg/kg	40	09/28/23 19:22	8270C		MS
Benzo[a]pyrene*	<0.018	0.040	0.018	mg/kg	40	09/28/23 19:22	8270C		MS

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Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: Turner (OWP) #4 Project Manager: Kyle Siesser	Reported: 10/02/23 16:33
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SS01

2309160-01 (Soil)

Sampled Date: 09/14/23 12:00

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

Indeno[1,2,3-cd]pyrene*	<0.017	0.040	0.017	mg/kg	40	09/28/23 19:22	8270C		MS
Dibenz[a,h]anthracene*	<0.019	0.040	0.019	mg/kg	40	09/28/23 19:22	8270C		MS
<i>Surrogate: Nitrobenzene-d5</i>			94.4 %	39.6-121		09/28/23 19:22	8270C		MS
<i>Surrogate: 2-Fluorobiphenyl</i>			89.9 %	39.8-134		09/28/23 19:22	8270C		MS
<i>Surrogate: Terphenyl-d14</i>			91.7 %	33.3-136		09/28/23 19:22	8270C		MS

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Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: Turner (OWP) #4	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	10/02/23 16:33

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B232771 - General Prep - Wet Chem										
Blank (B232771-BLK1) Prepared: 09/15/23 Analyzed: 09/21/23										
Hexavalent Chromium	ND	0.250	mg/kg dry							
LCS (B232771-BS1) Prepared: 09/15/23 Analyzed: 09/21/23										
Hexavalent Chromium	2.18	0.250	mg/kg dry	2.50		87.2	85-115			

Saturated Paste Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B232809 - Paste Extract										
Reference (B232809-SRM1) Prepared: 09/19/23 Analyzed: 09/21/23										
Conductivity	7010		umho/cm@2 5C	6480		108	90-110			
Batch B232810 - Paste Extract										
Reference (B232810-SRM1) Prepared: 09/19/23 Analyzed: 09/21/23										
pH	7.38		pH Units	7.35		100	92-108			
Batch B232811 - Paste Extract										
Blank (B232811-BLK1) Prepared: 09/19/23 Analyzed: 09/25/23										
Calcium	ND	0.100	mg/L							
Magnesium	ND	0.100	mg/L							
SAR	0.00		No Unit							
Sodium	ND	1.00	mg/L							
Reference (B232811-SRM1) Prepared: 09/19/23 Analyzed: 09/25/23										
SAR	6.48		No Unit	6.20		105	90-110			

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Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: Turner (OWP) #4	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	10/02/23 16:33

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 B232823 - EPA 3050

Blank (B232823-BLK1)

Prepared: 09/20/23 Analyzed: 09/22/23

Barium	ND	5.00	mg/kg dry							
Cadmium	ND	5.00	mg/kg dry							
Chromium	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 (B232823-BS1)

Prepared: 09/20/23 Analyzed: 09/22/23

Barium	186	5.00	mg/kg dry	200		93.1	80-120			
Cadmium	176	5.00	mg/kg dry	200		87.8	80-120			
Chromium	189	5.00	mg/kg dry	200		94.5	80-120			
Copper	397	10.0	mg/kg dry	400		99.2	80-120			
Lead	177	10.0	mg/kg dry	200		88.3	80-120			
Nickel	180	5.00	mg/kg dry	200		90.2	80-120			
Selenium	776	20.0	mg/kg dry	800		97.0	80-120			
Silver	9.02	1.00	mg/kg dry	10.0		90.2	80-120			
Zinc	168	10.0	mg/kg dry	200		83.8	80-120			

LCS Dup (B232823-BSD1)

Prepared: 09/20/23 Analyzed: 09/22/23

Barium	181	5.00	mg/kg dry	200		90.4	80-120	2.86	20	
Cadmium	170	5.00	mg/kg dry	200		85.1	80-120	3.12	20	
Chromium	184	5.00	mg/kg dry	200		92.0	80-120	2.78	20	
Copper	387	10.0	mg/kg dry	400		96.7	80-120	2.51	20	
Lead	171	10.0	mg/kg dry	200		85.3	80-120	3.45	20	
Nickel	175	5.00	mg/kg dry	200		87.3	80-120	3.22	20	
Selenium	760	20.0	mg/kg dry	800		95.0	80-120	2.05	20	
Silver	8.91	1.00	mg/kg dry	10.0		89.1	80-120	1.28	20	
Zinc	162	10.0	mg/kg dry	200		81.0	80-120	3.47	20	

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Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: Turner (OWP) #4	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	10/02/23 16:33

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 B232824 - EPA 3050M

Blank (B232824-BLK1)

Prepared: 09/20/23 Analyzed: 09/22/23

Arsenic	ND	0.100	mg/kg dry							
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LCS (B232824-BS1)

Prepared: 09/20/23 Analyzed: 09/22/23

Arsenic	5.02	0.100	mg/kg dry	5.00		100	80-120			
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LCS Dup (B232824-BSD1)

Prepared: 09/20/23 Analyzed: 09/22/23

Arsenic	5.08	0.100	mg/kg dry	5.00		102	80-120	1.12	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 B232812 - General Prep-SOILS

Blank (B232812-BLK1)

Prepared: 09/19/23 Analyzed: 09/25/23

Boron	ND	1.20	mg/L							
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Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: Turner (OWP) #4	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	10/02/23 16:33

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 3091911 - General Prep - Organics

Blank (3091911-BLK1)

Prepared & Analyzed: 09/19/23

Surrogate: 1-Chlorooctadecane	46.2		mg/kg	50.0		92.4	49.1-148			
Surrogate: 1-Chlorooctane	40.0		mg/kg	50.0		80.1	48.2-134			
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 (3091911-BS1)

Prepared & Analyzed: 09/19/23

Surrogate: 1-Chlorooctadecane	48.4		mg/kg	50.0		96.9	49.1-148			
Surrogate: 1-Chlorooctane	43.8		mg/kg	50.0		87.6	48.2-134			
DRO >C10-C28	202	10.0	mg/kg	200		101	66.5-118			
GRO C6-C10	188	10.0	mg/kg	200		94.2	66.4-123			
Total TPH C6-C28	390	10.0	mg/kg	400		97.5	77.6-123			

LCS Dup (3091911-BSD1)

Prepared & Analyzed: 09/19/23

Surrogate: 1-Chlorooctadecane	48.9		mg/kg	50.0		97.8	49.1-148			
Surrogate: 1-Chlorooctane	46.3		mg/kg	50.0		92.7	48.2-134			
DRO >C10-C28	198	10.0	mg/kg	200		99.1	66.5-118	1.73	21	
GRO C6-C10	189	10.0	mg/kg	200		94.6	66.4-123	0.482	17.7	
Total TPH C6-C28	387	10.0	mg/kg	400		96.9	77.6-123	0.654	18.5	

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Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: Turner (OWP) #4	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	10/02/23 16:33

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 3091502 - Volatiles

Blank (3091502-BLK1)

Prepared: 09/15/23 Analyzed: 09/19/23

1,2,4-Trimethylbenzene	0.0147	0.0250	mg/kg							J
1,3,5-Trimethylbenzene	ND	0.0250	mg/kg							
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>1.16</i>		mg/kg	<i>1.25</i>		<i>92.8</i>	<i>82.5-117</i>			
Benzene	ND	0.0250	mg/kg							
<i>Surrogate: Dibromofluoromethane</i>	<i>1.22</i>		mg/kg	<i>1.25</i>		<i>98.0</i>	<i>84.6-114</i>			
Ethylbenzene	0.0100	0.0250	mg/kg							J
m+p - Xylene	ND	0.0500	mg/kg							
Naphthalene	0.00505	0.0250	mg/kg							J
o-Xylene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	mg/kg							
<i>Surrogate: Toluene-d8</i>	<i>1.32</i>		mg/kg	<i>1.25</i>		<i>106</i>	<i>90.4-109</i>			
Total Xylenes	ND	0.0750	mg/kg							

LCS (3091502-BS1)

Prepared: 09/15/23 Analyzed: 09/19/23

1,2,4-Trimethylbenzene	0.494	0.0250	mg/kg	0.500		98.8	62.4-140			
1,3,5-Trimethylbenzene	0.522	0.0250	mg/kg	0.500		104	64.4-138			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>1.26</i>		mg/kg	<i>1.25</i>		<i>100</i>	<i>82.5-117</i>			
Benzene	0.498	0.0250	mg/kg	0.500		99.6	73-130			
<i>Surrogate: Dibromofluoromethane</i>	<i>1.22</i>		mg/kg	<i>1.25</i>		<i>97.5</i>	<i>84.6-114</i>			
Ethylbenzene	0.469	0.0250	mg/kg	0.500		93.7	75.4-127			
m+p - Xylene	0.947	0.0500	mg/kg	1.00		94.7	71.8-133			
Naphthalene	0.561	0.0250	mg/kg	0.500		112	28.7-158			
o-Xylene	0.483	0.0250	mg/kg	0.500		96.5	78.6-125			
Toluene	0.486	0.0250	mg/kg	0.500		97.2	79-122			
<i>Surrogate: Toluene-d8</i>	<i>1.26</i>		mg/kg	<i>1.25</i>		<i>100</i>	<i>90.4-109</i>			
Total Xylenes	1.43	0.0750	mg/kg	1.50		95.3	74.6-130			

LCS Dup (3091502-BSD1)

Prepared: 09/15/23 Analyzed: 09/19/23

1,2,4-Trimethylbenzene	0.486	0.0250	mg/kg	0.500		97.2	62.4-140	1.71	38.2	
1,3,5-Trimethylbenzene	0.502	0.0250	mg/kg	0.500		100	64.4-138	3.97	39.1	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>1.27</i>		mg/kg	<i>1.25</i>		<i>101</i>	<i>82.5-117</i>			
Benzene	0.489	0.0250	mg/kg	0.500		97.8	73-130	1.90	17.1	
<i>Surrogate: Dibromofluoromethane</i>	<i>1.21</i>		mg/kg	<i>1.25</i>		<i>96.7</i>	<i>84.6-114</i>			
Ethylbenzene	0.475	0.0250	mg/kg	0.500		95.0	75.4-127	1.39	16.5	
m+p - Xylene	0.954	0.0500	mg/kg	1.00		95.4	71.8-133	0.752	19.1	
Naphthalene	0.505	0.0250	mg/kg	0.500		101	28.7-158	10.6	64	
o-Xylene	0.473	0.0250	mg/kg	0.500		94.5	78.6-125	2.10	13.2	
Toluene	0.499	0.0250	mg/kg	0.500		99.8	79-122	2.61	18.3	

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

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Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: Turner (OWP) #4	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	10/02/23 16:33

**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 3091502 - Volatiles (Continued)

LCS Dup (3091502-BSD1) (Continued)

Prepared: 09/15/23 Analyzed: 09/19/23

Surrogate: Toluene-d8	1.30		mg/kg	1.25		104	90.4-109			
Total Xylenes	1.43	0.0750	mg/kg	1.50		95.1	74.6-130	0.201	16.5	

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Jeremy D Allen, Laboratory Director

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Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: Turner (OWP) #4	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	10/02/23 16:33

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 3092046 - SW846-3510

Blank (3092046-BLK1)

Prepared: 09/20/23 Analyzed: 09/28/23

1-Methylnaphthalene	ND	0.040	mg/kg							
<i>Surrogate: 2-Fluorobiphenyl</i>	1.83		mg/kg	2.00		91.3	39.8-134			
2-Methylnaphthalene	ND	0.040	mg/kg							
Acenaphthene	ND	0.040	mg/kg							
Anthracene	ND	0.040	mg/kg							
Benzo[a]anthracene	ND	0.040	mg/kg							
Benzo[a]pyrene	ND	0.040	mg/kg							
Benzo[b]flouranthene	ND	0.040	mg/kg							
Benzo[k]flouranthene	ND	0.040	mg/kg							
Chrysene	ND	0.040	mg/kg							
Dibenz[a,h]anthracene	ND	0.040	mg/kg							
Fluoranthene	ND	0.040	mg/kg							
Fluorene	ND	0.040	mg/kg							
Indeno[1,2,3-cd]pyrene	ND	0.040	mg/kg							
Naphthalene	ND	0.040	mg/kg							
<i>Surrogate: Nitrobenzene-d5</i>	2.00		mg/kg	2.00		100	39.6-121			
Pyrene	ND	0.040	mg/kg							
<i>Surrogate: Terphenyl-d14</i>	2.15		mg/kg	2.00		108	33.3-136			

LCS (3092046-BS1)

Prepared: 09/20/23 Analyzed: 09/28/23

1-Methylnaphthalene	0.394	0.040	mg/kg	0.400		98.5	57.6-108			
<i>Surrogate: 2-Fluorobiphenyl</i>	1.85		mg/kg	2.00		92.5	39.8-134			
2-Methylnaphthalene	0.399	0.040	mg/kg	0.400		99.8	59-106			
Acenaphthene	0.420	0.040	mg/kg	0.400		105	60.9-105			
Acenaphthylene	0.455	0.040	mg/kg	0.400		114	57.4-107			BS-3
Anthracene	0.451	0.040	mg/kg	0.400		113	60.8-105			BS-3
Benzo[a]anthracene	0.449	0.040	mg/kg	0.400		112	56.1-121			
Benzo[a]pyrene	0.457	0.040	mg/kg	0.400		114	56.7-115			
Benzo[b]flouranthene	0.450	0.040	mg/kg	0.400		113	45.4-128			
Benzo[g,h,i]perylene	0.456	0.040	mg/kg	0.400		114	56.5-107			BS-3
Benzo[k]flouranthene	0.472	0.040	mg/kg	0.400		118	49.6-119			
Carbazole	0.460	0.040	mg/kg	0.400		115	59.7-107			BS-3
Chrysene	0.447	0.040	mg/kg	0.400		112	12.2-190			
Dibenz[a,h]anthracene	0.467	0.040	mg/kg	0.400		117	59.1-111			BS-3
Fluoranthene	0.460	0.040	mg/kg	0.400		115	60.6-111			BS-3
Fluorene	0.437	0.040	mg/kg	0.400		109	59.3-108			BS-3
Indeno[1,2,3-cd]pyrene	0.452	0.040	mg/kg	0.400		113	53.4-116			
Naphthalene	0.379	0.040	mg/kg	0.400		94.9	56.5-106			

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Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: Turner (OWP) #4	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	10/02/23 16:33

**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 3092046 - SW846-3510 (Continued)

LCS (3092046-BS1) (Continued)

Prepared: 09/20/23 Analyzed: 09/28/23

<i>Surrogate: Nitrobenzene-d5</i>	1.79		mg/kg	2.00		89.3	39.6-121			
Phenanthrene	0.448	0.040	mg/kg	0.400		112	59.9-107			BS-3
Pyrene	0.439	0.040	mg/kg	0.400		110	51.5-122			
<i>Surrogate: Terphenyl-d14</i>	2.25		mg/kg	2.00		113	33.3-136			

LCS Dup (3092046-BS1)

Prepared: 09/20/23 Analyzed: 09/28/23

1-Methylnaphthalene	0.419	0.040	mg/kg	0.400		105	57.6-108	6.04	6.22	
<i>Surrogate: 2-Fluorobiphenyl</i>	1.75		mg/kg	2.00		87.6	39.8-134			
2-Methylnaphthalene	0.431	0.040	mg/kg	0.400		108	59-106	7.64	6.23	BS-3, QR-04
Acenaphthene	0.410	0.040	mg/kg	0.400		102	60.9-105	2.59	8.18	BS-3
Acenaphthylene	0.436	0.040	mg/kg	0.400		109	57.4-107	4.21	5	
Anthracene	0.462	0.040	mg/kg	0.400		115	60.8-105	2.37	3.68	BS-3
Benzo[a]anthracene	0.449	0.040	mg/kg	0.400		112	56.1-121	0.129	9.01	
Benzo[a]pyrene	0.452	0.040	mg/kg	0.400		113	56.7-115	1.18	4.92	
Benzo[b]fluoranthene	0.466	0.040	mg/kg	0.400		116	45.4-128	3.40	7.63	
Benzo[g,h,i]perylene	0.414	0.040	mg/kg	0.400		104	56.5-107	9.55	12.5	
Benzo[k]fluoranthene	0.470	0.040	mg/kg	0.400		118	49.6-119	0.295	10.6	
Carbazole	0.457	0.040	mg/kg	0.400		114	59.7-107	0.499	8.65	BS-3
Chrysene	0.447	0.040	mg/kg	0.400		112	12.2-190	0.0313	21.8	
Dibenz[a,h]anthracene	0.434	0.040	mg/kg	0.400		109	59.1-111	7.32	11.6	
Fluoranthene	0.461	0.040	mg/kg	0.400		115	60.6-111	0.119	7.54	BS-3
Fluorene	0.465	0.040	mg/kg	0.400		116	59.3-108	6.31	5.49	BS-3, QR-04
Indeno[1,2,3-cd]pyrene	0.423	0.040	mg/kg	0.400		106	53.4-116	6.59	22.3	
Naphthalene	0.385	0.040	mg/kg	0.400		96.3	56.5-106	1.52	4.56	
<i>Surrogate: Nitrobenzene-d5</i>	1.77		mg/kg	2.00		88.3	39.6-121			
Phenanthrene	0.448	0.040	mg/kg	0.400		112	59.9-107	0.0290	5.21	BS-3
Pyrene	0.437	0.040	mg/kg	0.400		109	51.5-122	0.534	10.6	
<i>Surrogate: Terphenyl-d14</i>	2.25		mg/kg	2.00		112	33.3-136			

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Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: Turner (OWP) #4	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	10/02/23 16:33

Notes and Definitions

- QR-04 The RPD for the BS/BSD was outside of historical limits.
- J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
- BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
- 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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SAMPLE CONDITION RECEIPT FORM

Client Name: Cottonwood Consulting

Work Order # 2309-160

Courier: Fed Ex UPS USPS Client Kangaroo

Custody Seals on Box/Cooler Present: Yes No Seals Intact: Yes No

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

Type of Ice: Wet Blue None

Cooler Temp: Observed Temp: 19.8 °C Correction Factor: 0 °C Final Temp: 19.8 °C

* Temp should be above freezing to 6°C

Date/Initials of person examining contents: 9/14/23
SE
Labeled by Initials: _____
(If different than above)

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Chain of Custody Relinquished:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	3.
Sampler Name and Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	4.
Samples arrived within hold time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
Short Hold Time Analysis (<72hr):	<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.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Dissolved Testing Needed:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	11.
Field Filtered: <input type="checkbox"/> Yes <input type="checkbox"/> No		
Sample Labels match COC: -Includes Date/Time/ID	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12.
Matrix:	WT <input checked="" type="checkbox"/> SU <input type="checkbox"/> OT	
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	

Client Notification/Resolution:

Person Contacted: _____

Date/Time: _____

Comments/Resolution: _____