



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

08 May 2023

Kyle Siesser
Cottonwood Consulting
PO Box 1653
Durango, CO 81302
RE: McDaniel (OWP) 1-11

Enclosed are the results of analyses for samples received by the laboratory on 04/21/23 08:10. 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: McDaniel (OWP) 1-11	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	05/08/23 14:09

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
SS01	2304256-01	Solid	04/20/23 10:10	04/21/23 08:10	
BG01	2304256-02	Solid	04/20/23 11:25	04/21/23 08:10	

Green Analytical Laboratories

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.



Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: McDaniel (OWP) 1-11 Project Manager: Kyle Siesser	Reported: 05/08/23 14:09
---	---	-----------------------------

SS01

2304256-01 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
---------	--------	----	-----	-------	----------	----------	--------	-------	---------

General Chemistry

Hexavalent Chromium	<0.250	0.250	0.191	mg/kg dry	25	05/05/23 15:15	3060A/3500-Cr B		CAI
---------------------	--------	-------	-------	-----------	----	----------------	-----------------	--	-----

Saturated Paste Extraction

Calcium	22.3	0.100	0.058	mg/L	1	05/03/23 16:07	EPA200.7		AES
Conductivity	732			umho/cm@25 C	1	05/02/23 10:57	ASA#9 10-3.3		KRW
Magnesium	4.23	0.100	0.065	mg/L	1	05/03/23 16:07	EPA200.7		AES
pH	8.49			pH Units	1	05/02/23 10:57	ASA#9 10-3.2		KRW
SAR	6.62			No Unit	1	05/03/23 16:07	Calculation		AES
Sodium	130	1.00	0.079	mg/L	1	05/03/23 16:07	EPA200.7		AES

Total Metals by ICP

Barium	12900	500	94.2	mg/kg dry	10000	05/03/23 15:00	6010B		AES
Cadmium	8.53	5.00	1.29	mg/kg dry	100	05/02/23 16:32	6010B		AES
Chromium	24.0	5.00	4.53	mg/kg dry	100	05/02/23 16:32	6010B		AES
Copper	45.8	10.0	4.61	mg/kg dry	100	05/02/23 16:32	6010B		AES
Lead	178	10.0	1.88	mg/kg dry	100	05/02/23 16:32	6010B		AES
Nickel	20.8	5.00	1.41	mg/kg dry	100	05/02/23 16:32	6010B		AES
Selenium	<20.0	20.0	9.47	mg/kg dry	100	05/02/23 16:31	6010B		AES
Silver	<1.00	1.00	0.460	mg/kg dry	100	05/02/23 16:31	6010B		AES
Zinc	200	10.0	1.24	mg/kg dry	100	05/02/23 16:32	6010B		AES

Total Metals by ICPMS

Arsenic	6.26	1.00	0.158	mg/kg dry	1000	05/02/23 13:29	6020A		AES
---------	------	------	-------	-----------	------	----------------	-------	--	-----

Hot Water Extractable

Boron	<0.300	0.300	0.142	mg/L	1	05/02/23 20:30	EPA200.7		AES
-------	--------	-------	-------	------	---	----------------	----------	--	-----

Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	11.9	10.0	6.25	mg/kg	1	04/27/23 02:58	8015B		MS
DRO >C10-C28*	146	10.0	4.26	mg/kg	1	04/27/23 02:58	8015B		MS
EXT DRO >C28-C36	164	10.0	4.26	mg/kg	1	04/27/23 02:58	8015B		MS

Surrogate: 1-Chlorooctane 106 % 48.2-134 04/27/23 02:58 8015B MS

Surrogate: 1-Chlorooctadecane 116 % 49.1-148 04/27/23 02:58 8015B MS

Green Analytical Laboratories

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.



Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: McDaniel (OWP) 1-11	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	05/08/23 14:09

SS01

2304256-01 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
---------	--------	----	-----	-------	----------	----------	--------	-------	---------

Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

VOLATILES BY GC/MS

Benzene*	0.0336	0.0250	0.00885	mg/kg	50	04/29/23 19:03	8260B		MS
Toluene*	0.0136	0.0250	0.00670	mg/kg	50	04/29/23 19:03	8260B	J	MS
Ethylbenzene*	0.383	0.0250	0.00405	mg/kg	50	04/29/23 19:03	8260B		MS
m+p - Xylene*	1.23	0.0500	0.0186	mg/kg	50	04/29/23 19:03	8260B		MS
o-Xylene*	0.554	0.0250	0.00700	mg/kg	50	04/29/23 19:03	8260B		MS
Total Xylenes*	1.79	0.0750	0.0256	mg/kg	50	04/29/23 19:03	8260B		MS
1,3,5-Trimethylbenzene	0.0185	0.0250	0.00450	mg/kg	50	04/29/23 19:03	8260B	J	MS
1,2,4-Trimethylbenzene	0.0906	0.0250	0.00650	mg/kg	50	04/29/23 19:03	8260B		MS
Naphthalene*	0.338	0.0250	0.00500	mg/kg	50	04/29/23 19:03	8260B		MS
Surrogate: Dibromofluoromethane			102 %	84.6-114		04/29/23 19:03	8260B		MS
Surrogate: Toluene-d8			100 %	90.4-109		04/29/23 19:03	8260B		MS
Surrogate: 4-Bromofluorobenzene			102 %	82.5-117		04/29/23 19:03	8260B		MS

Polynuclear Aromatic Compounds by GC/MS

Naphthalene*	0.148	0.040	0.015	mg/kg	40	04/27/23 21:07	8270C		CK
2-Methylnaphthalene*	0.248	0.040	0.023	mg/kg	40	04/27/23 21:07	8270C		CK
1-Methylnaphthalene	0.188	0.040	0.016	mg/kg	40	04/27/23 21:07	8270C		CK
Acenaphthene*	0.142	0.040	0.024	mg/kg	40	04/27/23 21:07	8270C		CK
Fluorene*	0.210	0.040	0.014	mg/kg	40	04/27/23 21:07	8270C		CK
Anthracene*	0.110	0.040	0.017	mg/kg	40	04/27/23 21:07	8270C		CK
Fluoranthene*	0.302	0.040	0.019	mg/kg	40	04/27/23 21:07	8270C		CK
Pyrene*	0.308	0.040	0.013	mg/kg	40	04/27/23 21:07	8270C		CK
Benzo[a]anthracene*	0.065	0.040	0.023	mg/kg	40	04/27/23 21:07	8270C		CK
Chrysene	0.074	0.040	0.017	mg/kg	40	04/27/23 21:07	8270C		CK
Benzo[b]fluoranthene*	0.041	0.040	0.019	mg/kg	40	04/27/23 21:07	8270C		CK
Benzo[k]fluoranthene*	0.028	0.040	0.016	mg/kg	40	04/27/23 21:07	8270C	J	CK
Benzo[a]pyrene*	0.037	0.040	0.018	mg/kg	40	04/27/23 21:07	8270C	J	CK
Indeno[1,2,3-cd]pyrene*	0.019	0.040	0.017	mg/kg	40	04/27/23 21:07	8270C	J	CK
Dibenz[a,h]anthracene*	<0.019	0.040	0.019	mg/kg	40	04/27/23 21:07	8270C		CK
Surrogate: Nitrobenzene-d5			68.8 %	39.6-121		04/27/23 21:07	8270C		CK

Green Analytical Laboratories

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.



Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: McDaniel (OWP) 1-11 Project Manager: Kyle Siesser	Reported: 05/08/23 14:09
---	---	-----------------------------

SS01

2304256-01 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
---------	--------	----	-----	-------	----------	----------	--------	-------	---------

Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Polynuclear Aromatic Compounds by GC/MS

Surrogate: 2-Fluorobiphenyl	80.0 %	39.8-134				04/27/23 21:07	8270C		CK
Surrogate: Terphenyl-d14	71.8 %	33.3-136				04/27/23 21:07	8270C		CK

Green Analytical Laboratories

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.



Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: McDaniel (OWP) 1-11 Project Manager: Kyle Siesser	Reported: 05/08/23 14:09
---	---	-----------------------------

BG01

2304256-02 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
---------	--------	----	-----	-------	----------	----------	--------	-------	---------

General Chemistry

Hexavalent Chromium	<0.250	0.250	0.191	mg/kg dry	25	05/05/23 15:15	3060A/3500-Cr B		CAI
---------------------	--------	-------	-------	-----------	----	----------------	-----------------	--	-----

Saturated Paste Extraction

Calcium	47.4	0.100	0.058	mg/L	1	05/03/23 16:11	EPA200.7		AES
Conductivity	428			umho/cm@25 C	1	05/02/23 10:57	ASA#9 10-3.3		KRW
Magnesium	9.76	0.100	0.065	mg/L	1	05/03/23 16:12	EPA200.7		AES
pH	7.83			pH Units	1	05/02/23 10:57	ASA#9 10-3.2		KRW
SAR	1.15			No Unit	1	05/03/23 16:11	Calculation		AES
Sodium	33.3	1.00	0.079	mg/L	1	05/03/23 16:11	EPA200.7		AES

Total Metals by ICP

Barium	9170	500	94.2	mg/kg dry	10000	05/03/23 15:02	6010B		AES
Cadmium	6.55	5.00	1.29	mg/kg dry	100	05/02/23 16:36	6010B		AES
Chromium	19.9	5.00	4.53	mg/kg dry	100	05/02/23 16:36	6010B		AES
Copper	34.1	10.0	4.61	mg/kg dry	100	05/02/23 16:36	6010B		AES
Lead	<10.0	10.0	1.88	mg/kg dry	100	05/02/23 16:36	6010B		AES
Nickel	24.5	5.00	1.41	mg/kg dry	100	05/02/23 16:36	6010B		AES
Selenium	<20.0	20.0	9.47	mg/kg dry	100	05/02/23 16:36	6010B		AES
Silver	<1.00	1.00	0.460	mg/kg dry	100	05/02/23 16:36	6010B		AES
Zinc	52.2	10.0	1.24	mg/kg dry	100	05/02/23 16:36	6010B		AES

Total Metals by ICPMS

Arsenic	4.60	1.00	0.158	mg/kg dry	1000	05/02/23 13:30	6020A		AES
---------	------	------	-------	-----------	------	----------------	-------	--	-----

Hot Water Extractable

Boron	0.328	0.300	0.142	mg/L	1	05/02/23 20:33	EPA200.7		AES
-------	-------	-------	-------	------	---	----------------	----------	--	-----

Green Analytical Laboratories

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.



Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: McDaniel (OWP) 1-11	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	05/08/23 14:09

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B231089 - General Prep - Wet Chem										
Blank (B231089-BLK1)										
Prepared: 05/01/23 Analyzed: 05/05/23										
Hexavalent Chromium	ND	0.250	mg/kg dry							
LCS (B231089-BS1)										
Prepared: 05/01/23 Analyzed: 05/05/23										
Hexavalent Chromium	2.26	0.250	mg/kg dry	2.50		90.3	85-115			

Saturated Paste Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B231116 - Paste Extract										
Blank (B231116-BLK1)										
Prepared: 05/02/23 Analyzed: 05/03/23										
Calcium	ND	0.100	mg/L							
Magnesium	ND	0.100	mg/L							
SAR	0.00		No Unit							
Sodium	ND	1.00	mg/L							

Green Analytical Laboratories

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.



Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: McDaniel (OWP) 1-11	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	05/08/23 14:09

Total Metals by ICP - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B231081 - EPA 3050

Blank (B231081-BLK1)

Prepared: 04/28/23 Analyzed: 05/02/23

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 (B231081-BS1)

Prepared: 04/28/23 Analyzed: 05/02/23

Barium	179	5.00	mg/kg dry	200		89.5	80-120			
Cadmium	171	5.00	mg/kg dry	200		85.6	80-120			
Chromium	181	5.00	mg/kg dry	200		90.4	80-120			
Copper	374	10.0	mg/kg dry	400		93.6	80-120			
Lead	176	10.0	mg/kg dry	200		87.8	80-120			
Nickel	172	5.00	mg/kg dry	200		86.1	80-120			
Selenium	727	20.0	mg/kg dry	800		90.9	80-120			
Silver	8.49	1.00	mg/kg dry	10.0		84.9	80-120			
Zinc	165	10.0	mg/kg dry	200		82.5	80-120			

LCS Dup (B231081-BSD1)

Prepared: 04/28/23 Analyzed: 05/02/23

Barium	190	5.00	mg/kg dry	200		95.1	80-120	6.11	20	
Cadmium	179	5.00	mg/kg dry	200		89.7	80-120	4.76	20	
Chromium	193	5.00	mg/kg dry	200		96.3	80-120	6.28	20	
Copper	401	10.0	mg/kg dry	400		100	80-120	6.86	20	
Lead	185	10.0	mg/kg dry	200		92.7	80-120	5.40	20	
Nickel	183	5.00	mg/kg dry	200		91.6	80-120	6.19	20	
Selenium	775	20.0	mg/kg dry	800		96.8	80-120	6.29	20	
Silver	9.16	1.00	mg/kg dry	10.0		91.6	80-120	7.57	20	
Zinc	173	10.0	mg/kg dry	200		86.3	80-120	4.49	20	

Green Analytical Laboratories

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.



Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: COGCC Table 915-1 Project Name / Number: McDaniel (OWP) 1-11 Project Manager: Kyle Siesser	Reported: 05/08/23 14:09
---	---	-----------------------------

Total Metals by ICPMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B231082 - EPA 3050M

Blank (B231082-BLK1)

Prepared: 04/28/23 Analyzed: 05/02/23

Arsenic ND 0.100 mg/kg dry

LCS (B231082-BS1)

Prepared: 04/28/23 Analyzed: 05/02/23

Arsenic 4.72 0.100 mg/kg dry 5.00 94.4 80-120

LCS Dup (B231082-BSD1)

Prepared: 04/28/23 Analyzed: 05/02/23

Arsenic 5.13 0.100 mg/kg dry 5.00 103 80-120 8.36 20

Hot Water Extractable - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B231099 - General Prep-SOILS

Blank (B231099-BLK1)

Prepared: 05/01/23 Analyzed: 05/02/23

Boron ND 0.300 mg/L

Green Analytical Laboratories

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.



Cottonwood Consulting	Project: COGCC Table 915-1	Reported: 05/08/23 14:09
PO Box 1653	Project Name / Number: McDaniel (OWP) 1-11	
Durango CO, 81302	Project Manager: Kyle Siesser	

Petroleum Hydrocarbons by GC FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 3042624 - General Prep - Organics

Blank (3042624-BLK1)

Prepared & Analyzed: 04/26/23

Surrogate: 1-Chlorooctadecane	50.4		mg/kg	50.0		101	49.1-148			
Surrogate: 1-Chlorooctane	47.4		mg/kg	49.6		95.6	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 (3042624-BS1)

Prepared & Analyzed: 04/26/23

Surrogate: 1-Chlorooctadecane	49.0		mg/kg	50.0		98.1	49.1-148			
Surrogate: 1-Chlorooctane	44.6		mg/kg	49.6		90.0	48.2-134			
DRO >C10-C28	182	10.0	mg/kg	200		91.1	72.5-126			
GRO C6-C10	195	10.0	mg/kg	200		97.7	78.5-124			
Total TPH C6-C28	378	10.0	mg/kg	400		94.4	77.6-123			

LCS Dup (3042624-BSD1)

Prepared & Analyzed: 04/26/23

Surrogate: 1-Chlorooctadecane	55.8		mg/kg	50.0		112	49.1-148			
Surrogate: 1-Chlorooctane	49.5		mg/kg	49.6		100	48.2-134			
DRO >C10-C28	193	10.0	mg/kg	200		96.5	72.5-126	5.77	21	
GRO C6-C10	197	10.0	mg/kg	200		98.3	78.5-124	0.642	17.7	
Total TPH C6-C28	390	10.0	mg/kg	400		97.4	77.6-123	3.15	18.5	

Green Analytical Laboratories

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.



Cottonwood Consulting	Project: COGCC Table 915-1	Reported:
PO Box 1653	Project Name / Number: McDaniel (OWP) 1-11	05/08/23 14:09
Durango CO, 81302	Project Manager: Kyle Siesser	

VOLATILES BY GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 3042824 - Volatiles

Blank (3042824-BLK1)

Prepared: 04/28/23 Analyzed: 04/29/23

1,2,4-Trimethylbenzene	ND	0.0250	mg/kg							
1,3,5-Trimethylbenzene	ND	0.0250	mg/kg							
<i>Surrogate: 4-Bromofluorobenzene</i>	1.24		mg/kg	1.25		99.4	82.5-117			
Benzene	ND	0.0250	mg/kg							
<i>Surrogate: Dibromofluoromethane</i>	1.23		mg/kg	1.25		98.0	84.6-114			
Ethylbenzene	0.00482	0.0250	mg/kg							J
m+p - Xylene	ND	0.0500	mg/kg							
Naphthalene	ND	0.0250	mg/kg							
o-Xylene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	mg/kg							
<i>Surrogate: Toluene-d8</i>	1.21		mg/kg	1.25		97.0	90.4-109			
Total Xylenes	ND	0.0750	mg/kg							

LCS (3042824-BS1)

Prepared: 04/28/23 Analyzed: 04/29/23

1,2,4-Trimethylbenzene	0.498	0.0250	mg/kg	0.500		99.6	62.4-140			
1,3,5-Trimethylbenzene	0.501	0.0250	mg/kg	0.500		100	64.4-138			
<i>Surrogate: 4-Bromofluorobenzene</i>	1.24		mg/kg	1.25		99.2	82.5-117			
Benzene	0.456	0.0250	mg/kg	0.500		91.3	73-130			
<i>Surrogate: Dibromofluoromethane</i>	1.22		mg/kg	1.25		97.7	84.6-114			
Ethylbenzene	0.486	0.0250	mg/kg	0.500		97.2	75.4-127			
m+p - Xylene	1.01	0.0500	mg/kg	1.00		101	71.8-133			
Naphthalene	0.453	0.0250	mg/kg	0.500		90.7	28.7-158			
o-Xylene	0.499	0.0250	mg/kg	0.500		99.8	78.6-125			
Toluene	0.500	0.0250	mg/kg	0.500		99.9	79-122			
<i>Surrogate: Toluene-d8</i>	1.23		mg/kg	1.25		98.1	90.4-109			
Total Xylenes	1.51	0.0750	mg/kg	1.50		100	74.6-130			

LCS Dup (3042824-BSD1)

Prepared: 04/28/23 Analyzed: 04/29/23

1,2,4-Trimethylbenzene	0.486	0.0250	mg/kg	0.500		97.3	62.4-140	2.33	38.2	
1,3,5-Trimethylbenzene	0.491	0.0250	mg/kg	0.500		98.2	64.4-138	2.00	39.1	
<i>Surrogate: 4-Bromofluorobenzene</i>	1.27		mg/kg	1.25		102	82.5-117			
Benzene	0.473	0.0250	mg/kg	0.500		94.6	73-130	3.62	17.1	
<i>Surrogate: Dibromofluoromethane</i>	1.28		mg/kg	1.25		102	84.6-114			
Ethylbenzene	0.473	0.0250	mg/kg	0.500		94.7	75.4-127	2.65	16.5	
m+p - Xylene	0.984	0.0500	mg/kg	1.00		98.4	71.8-133	2.23	19.1	
Naphthalene	0.412	0.0250	mg/kg	0.500		82.3	28.7-158	9.68	64	
o-Xylene	0.481	0.0250	mg/kg	0.500		96.2	78.6-125	3.75	13.2	
Toluene	0.471	0.0250	mg/kg	0.500		94.1	79-122	5.93	18.3	

Green Analytical Laboratories

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.



Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: McDaniel (OWP) 1-11	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	05/08/23 14:09

**VOLATILES BY GC/MS - Quality Control
(Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 3042824 - Volatiles (Continued)

LCS Dup (3042824-BSD1) (Continued)

Prepared: 04/28/23 Analyzed: 04/29/23

Surrogate: Toluene-d8	1.24		mg/kg	1.25		98.9	90.4-109			
Total Xylenes	1.46	0.0750	mg/kg	1.50		97.6	74.6-130	2.73	16.5	

Green Analytical Laboratories

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.



Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: McDaniel (OWP) 1-11	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	05/08/23 14:09

Polynuclear Aromatic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 3042120 - SW846-3510

Blank (3042120-BLK1)

Prepared: 04/21/23 Analyzed: 04/27/23

1-Methylnaphthalene	ND	0.040	mg/kg							
<i>Surrogate: 2-Fluorobiphenyl</i>	2.20		mg/kg	2.00		110	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>	2.17		mg/kg	2.00		108	39.6-121			
Pyrene	ND	0.040	mg/kg							
<i>Surrogate: Terphenyl-d14</i>	1.55		mg/kg	2.00		77.6	33.3-136			

LCS (3042120-BS1)

Prepared: 04/21/23 Analyzed: 04/27/23

1-Methylnaphthalene	0.383	0.040	mg/kg	0.400		95.7	57.6-108			
<i>Surrogate: 2-Fluorobiphenyl</i>	3.06		mg/kg	2.00		153	39.8-134			S-04
2-Methylnaphthalene	0.400	0.040	mg/kg	0.400		99.9	59-106			
Acenaphthene	0.366	0.040	mg/kg	0.400		91.4	60.9-105			
Acenaphthylene	0.387	0.040	mg/kg	0.400		96.7	57.4-107			
Anthracene	0.358	0.040	mg/kg	0.400		89.6	60.8-105			
Benzo[a]anthracene	0.376	0.040	mg/kg	0.400		93.9	56.1-121			
Benzo[a]pyrene	0.409	0.040	mg/kg	0.400		102	56.7-115			
Benzo[b]flouranthene	0.392	0.040	mg/kg	0.400		97.9	45.4-128			
Benzo[g,h,i]perylene	0.410	0.040	mg/kg	0.400		103	56.5-107			
Benzo[k]flouranthene	0.397	0.040	mg/kg	0.400		99.4	49.6-119			
Carbazole	0.364	0.040	mg/kg	0.400		91.0	59.7-107			
Chrysene	0.374	0.040	mg/kg	0.400		93.5	12.2-190			
Dibenz[a,h]anthracene	0.395	0.040	mg/kg	0.400		98.7	59.1-111			
Fluoranthene	0.375	0.040	mg/kg	0.400		93.8	60.6-111			
Fluorene	0.374	0.040	mg/kg	0.400		93.4	59.3-108			
Indeno[1,2,3-cd]pyrene	0.419	0.040	mg/kg	0.400		105	53.4-116			
Naphthalene	0.390	0.040	mg/kg	0.400		97.6	56.5-106			

Green Analytical Laboratories

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.



Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: McDaniel (OWP) 1-11	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	05/08/23 14:09

**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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 3042120 - SW846-3510 (Continued)

LCS (3042120-BS1) (Continued)

Prepared: 04/21/23 Analyzed: 04/27/23

<i>Surrogate: Nitrobenzene-d5</i>	3.14		mg/kg	2.00		157	39.6-121			S-04
Phenanthrene	0.363	0.040	mg/kg	0.400		90.7	59.9-107			
Pyrene	0.379	0.040	mg/kg	0.400		94.7	51.5-122			
<i>Surrogate: Terphenyl-d14</i>	2.38		mg/kg	2.00		119	33.3-136			

LCS Dup (3042120-BSD1)

Prepared: 04/21/23 Analyzed: 04/27/23

1-Methylnaphthalene	0.384	0.040	mg/kg	0.400		96.0	57.6-108	0.235	6.22	
<i>Surrogate: 2-Fluorobiphenyl</i>	3.06		mg/kg	2.00		153	39.8-134			S-04
2-Methylnaphthalene	0.381	0.040	mg/kg	0.400		95.3	59-106	4.78	6.23	
Acenaphthene	0.352	0.040	mg/kg	0.400		88.1	60.9-105	3.71	8.18	
Acenaphthylene	0.381	0.040	mg/kg	0.400		95.2	57.4-107	1.59	5	
Anthracene	0.361	0.040	mg/kg	0.400		90.1	60.8-105	0.612	3.68	
Benzo[a]anthracene	0.374	0.040	mg/kg	0.400		93.4	56.1-121	0.582	9.01	
Benzo[a]pyrene	0.403	0.040	mg/kg	0.400		101	56.7-115	1.64	4.92	
Benzo[b]fluoranthene	0.376	0.040	mg/kg	0.400		94.0	45.4-128	4.09	7.63	
Benzo[g,h,i]perylene	0.395	0.040	mg/kg	0.400		98.8	56.5-107	3.66	12.5	
Benzo[k]fluoranthene	0.403	0.040	mg/kg	0.400		101	49.6-119	1.43	10.6	
Carbazole	0.371	0.040	mg/kg	0.400		92.8	59.7-107	1.93	8.65	
Chrysene	0.374	0.040	mg/kg	0.400		93.6	12.2-190	0.120	21.8	
Dibenz[a,h]anthracene	0.398	0.040	mg/kg	0.400		99.4	59.1-111	0.717	11.6	
Fluoranthene	0.384	0.040	mg/kg	0.400		95.9	60.6-111	2.28	7.54	
Fluorene	0.384	0.040	mg/kg	0.400		96.1	59.3-108	2.86	5.49	
Indeno[1,2,3-cd]pyrene	0.409	0.040	mg/kg	0.400		102	53.4-116	2.50	22.3	
Naphthalene	0.381	0.040	mg/kg	0.400		95.2	56.5-106	2.52	4.56	
<i>Surrogate: Nitrobenzene-d5</i>	3.05		mg/kg	2.00		152	39.6-121			S-04
Phenanthrene	0.365	0.040	mg/kg	0.400		91.1	59.9-107	0.465	5.21	
Pyrene	0.377	0.040	mg/kg	0.400		94.3	51.5-122	0.389	10.6	
<i>Surrogate: Terphenyl-d14</i>	2.42		mg/kg	2.00		121	33.3-136			

Green Analytical Laboratories

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.



Cottonwood Consulting	Project: COGCC Table 915-1	
PO Box 1653	Project Name / Number: McDaniel (OWP) 1-11	Reported:
Durango CO, 81302	Project Manager: Kyle Siesser	05/08/23 14:09

Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
*Results reported on as received basis unless designated as dry.
- RPD Relative Percent Difference
- LCS Laboratory Control Sample (Blank Spike)
- RL Report Limit
- MDL Method Detection Limit

Green Analytical Laboratories

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.



(970) 247-4220
 Fax: (970) 247-4227

services@greenanalytical.com or dzufelt@greenanalytical.com
 75 Suttle St Durango, CO 81303

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Cottonwood Consulting LLC

Project Manager: Kyle Siesser

Address: PO Box 1653

City: Durango

Phone #: 970-764-7356

Additional Report To:

Project Name:

Project Number:

Sampler Name (Print): Joseph LaFortune

Bill to (if different):

P.O. #:

Company:

City: Durango

Address:

State: CO

Phone #:

Fax or Email:

ANALYSIS REQUEST

Lab I.D.	Sample Name or Location	Collected		Matrix (check one)				# of containers				COGCC Table 915	COGCC Table 915 Inorganics	Report to State? (Circle)		
		Date	Time	GROUNDWATER	SURFACEWATER	WASTEWATER	PRODUCEDWATER	SOIL	OTHER :	No preservation (general)	HNO ₃				HCl	H ₂ SO ₄
2504-256																
01	SS01	4-20-23	1010					X								
02	B601	4-20-23	1125					X								

PLEASE NOTE: GAL's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by GAL within 30 days after completion. In no event shall GAL be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by GAL, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:

[Signature]

Date: 04-21-23
 Time: 0810

Received By: *[Signature]*

Date: _____
 Time: _____

ADDITIONAL REMARKS:

Please provide Cottonwood EDD

Report to State? (Circle)
 Yes No

Relinquished By:

[Signature]

Date: _____
 Time: _____

Received By:

Date: _____
 Time: _____

Delivered By: (Circle One)

Sampler: UPS - FedEx - Kangaroo - Other:

Temperature at receipt: 3.00C

CHECKED BY: *[Signature]*

Laser #2 on ce.

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



SAMPLE CONDITION RECEIPT FORM

Client Name: Cottonwood Consulting

Work Order # 2304-256

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: 3.0 °C Correction Factor: 0 °C Final Temp: 3.0 °C

*Temp should be above freezing to 6°C

Date/Initials of person examining contents: MPN 4/21/23
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 checked="" type="checkbox"/> Yes <input 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"/> SL <input type="checkbox"/> OT	
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

Client Notification/Resolution:

Person Contacted: _____

Date/Time: _____

Comments/Resolution: _____

