



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

05 December 2023

Jacob Harter
Cottonwood Consulting
PO Box 1653
Durango, CO 81302
RE: Harris (OWP) #5

Enclosed are the results of analyses for samples received by the laboratory on 11/15/23 17:07. 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, reading 'Jeremy D. Allen', is written in a cursive style.

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: T104704514-23-18

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

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

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Cottonwood Consulting
PO Box 1653
Durango CO, 81302

Project: Table 915-1
Project Name / Number: Harris (OWP) #5
Project Manager: Jacob Harter

Reported:
12/05/23 13:57

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
SS04	2311208-01	Solid	11/15/23 10:25	11/15/23 17:07	
SS05	2311208-02	Solid	11/15/23 10:30	11/15/23 17:07	

Green Analytical Laboratories

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

Jeremy D Allen, Laboratory Director

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Project: Table 915-1
Project Name / Number: Harris (OWP) #5
Project Manager: Jacob Harter

Reported:
12/05/23 13:57

SS04**2311208-01 (Soil)****Sampled Date: 11/15/23 10:25**

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	11/29/23 15:56	3060A/3500-Cr B		CAI
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Saturated Paste Extraction

Calcium	59.0	0.100	0.058	mg/L	1	11/28/23 21:04	EPA200.7		AES
Conductivity	562			umho/cm@25 C	1	11/21/23 10:27	ASA#9 10-3.3		AES
Magnesium	15.5	0.100	0.065	mg/L	1	11/28/23 21:04	EPA200.7		AES
pH	8.02			pH Units	1	11/21/23 10:27	ASA#9 10-3.2		AES
SAR	0.97			No Unit	1	11/28/23 21:04	Calculation		AES
Sodium	32.4	1.00	0.079	mg/L	1	11/28/23 21:04	EPA200.7		AES

Total Metals by ICP

Barium	184	5.00	0.942	mg/kg dry	100	12/04/23 16:05	6010B		AES
Cadmium	<5.00	5.00	1.29	mg/kg dry	100	12/04/23 16:05	6010B		AES
Chromium	15.5	5.00	4.53	mg/kg dry	100	12/04/23 16:05	6010B		AES
Copper	21.7	10.0	4.61	mg/kg dry	100	12/04/23 16:05	6010B		AES
Lead	<10.0	10.0	1.88	mg/kg dry	100	12/04/23 16:05	6010B		AES
Nickel	11.0	5.00	1.41	mg/kg dry	100	12/04/23 16:05	6010B		AES
Selenium	<20.0	20.0	9.47	mg/kg dry	100	12/04/23 16:04	6010B		AES
Silver	<1.00	1.00	0.460	mg/kg dry	100	12/04/23 16:04	6010B		AES
Zinc	36.5	10.0	1.24	mg/kg dry	100	12/04/23 16:05	6010B		AES

Total Metals by ICPMS

Arsenic	5.63	1.00	0.158	mg/kg dry	1000	12/04/23 13:43	6020A		AES
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Hot Water Extractable

Boron	<1.20	1.20	0.568	mg/L	4	11/28/23 23:14	EPA200.7		AES
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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	11/18/23 00:56	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	11/18/23 00:56	8015B		MS
GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	11/18/23 00:56	8015B		MS

Surrogate: 1-Chlorooctadecane

69.6 % 49.1-148

11/18/23
00:56

8015B

MS

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Jeremy D Allen, Laboratory Director

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Project: Table 915-1
Project Name / Number: Harris (OWP) #5
Project Manager: Jacob Harter

Reported:
12/05/23 13:57

SS04**2311208-01 (Soil)****Sampled Date: 11/15/23 10:25**

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

Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240**Petroleum Hydrocarbons by GC FID**

Surrogate: 1-Chlorooctane	70.1 %	48.2-134				11/18/23 00:56	8015B		MS
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VOLATILES BY GC/MS

1,2,4-Trimethylbenzene	<0.0250	0.0250	0.00650	mg/kg	50	11/22/23 20:27	8260B		ZZZ
1,3,5-Trimethylbenzene	<0.0250	0.0250	0.00450	mg/kg	50	11/22/23 20:27	8260B		ZZZ
Benzene*	<0.0250	0.0250	0.00885	mg/kg	50	11/22/23 20:27	8260B		ZZZ
Ethylbenzene*	<0.0250	0.0250	0.00405	mg/kg	50	11/22/23 20:27	8260B		ZZZ
m+p - Xylene*	<0.0500	0.0500	0.0186	mg/kg	50	11/22/23 20:27	8260B		ZZZ
Naphthalene*	<0.0250	0.0250	0.00500	mg/kg	50	11/22/23 20:27	8260B		ZZZ
o-Xylene*	<0.0250	0.0250	0.00700	mg/kg	50	11/22/23 20:27	8260B		ZZZ
Toluene*	<0.0250	0.0250	0.00670	mg/kg	50	11/22/23 20:27	8260B		ZZZ
Total Xylenes*	<0.0750	0.0750	0.0256	mg/kg	50	11/22/23 20:27	8260B		ZZZ

Surrogate: 4-Bromofluorobenzene	97.8 %	82.5-117				11/22/23 20:27	8260B		ZZZ
Surrogate: Dibromofluoromethane	89.9 %	84.6-114				11/22/23 20:27	8260B		ZZZ
Surrogate: Toluene-d8	99.7 %	90.4-109				11/22/23 20:27	8260B		ZZZ

Polynuclear Aromatic Compounds by GC/MS

1-Methylnaphthalene	<0.016	0.040	0.016	mg/kg	40	11/20/23 19:31	8270C		MS
2-Methylnaphthalene*	<0.023	0.040	0.023	mg/kg	40	11/20/23 19:31	8270C		MS
Acenaphthene*	<0.024	0.040	0.024	mg/kg	40	11/20/23 19:31	8270C		MS
Anthracene*	<0.017	0.040	0.017	mg/kg	40	11/20/23 19:31	8270C		MS
Benzo[a]anthracene*	<0.023	0.040	0.023	mg/kg	40	11/20/23 19:31	8270C		MS
Benzo[a]pyrene*	<0.018	0.040	0.018	mg/kg	40	11/20/23 19:31	8270C		MS
Benzo[b]fluoranthene*	<0.019	0.040	0.019	mg/kg	40	11/20/23 19:31	8270C		MS
Benzo[k]fluoranthene*	<0.016	0.040	0.016	mg/kg	40	11/20/23 19:31	8270C		MS
Chrysene	<0.017	0.040	0.017	mg/kg	40	11/20/23 19:31	8270C		MS
Dibenz[a,h]anthracene*	<0.019	0.040	0.019	mg/kg	40	11/20/23 19:31	8270C		MS
Fluoranthene*	<0.019	0.040	0.019	mg/kg	40	11/20/23 19:31	8270C		MS
Fluorene*	<0.014	0.040	0.014	mg/kg	40	11/20/23 19:31	8270C		MS
Indeno[1,2,3-cd]pyrene*	<0.017	0.040	0.017	mg/kg	40	11/20/23 19:31	8270C		MS

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Jeremy D Allen, Laboratory Director

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Project: Table 915-1
Project Name / Number: Harris (OWP) #5
Project Manager: Jacob Harter

Reported:
12/05/23 13:57

SS04

2311208-01 (Soil)

Sampled Date: 11/15/23 10:25

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

Naphthalene*	<0.015	0.040	0.015	mg/kg	40	11/20/23 19:31	8270C		MS
Pyrene*	<0.013	0.040	0.013	mg/kg	40	11/20/23 19:31	8270C		MS
<i>Surrogate: 2-Fluorobiphenyl</i>			80.8 %	39.8-134		11/20/23 19:31	8270C		MS
<i>Surrogate: Nitrobenzene-d5</i>			63.3 %	39.6-121		11/20/23 19:31	8270C		MS
<i>Surrogate: Terphenyl-d14</i>			85.7 %	33.3-136		11/20/23 19:31	8270C		MS

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Project: Table 915-1
Project Name / Number: Harris (OWP) #5
Project Manager: Jacob Harter

Reported:
12/05/23 13:57

SS05**2311208-02 (Soil)****Sampled Date: 11/15/23 10:30**

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	11/29/23 15:56	3060A/3500-Cr B		CAI
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Saturated Paste Extraction

Calcium	35.8	0.100	0.058	mg/L	1	11/28/23 21:10	EPA200.7		AES
Conductivity	271			umho/cm@25 C	1	11/21/23 10:27	ASA#9 10-3.3		AES
Magnesium	8.14	0.100	0.065	mg/L	1	11/28/23 21:10	EPA200.7		AES
pH	7.88			pH Units	1	11/21/23 10:27	ASA#9 10-3.2		AES
SAR	0.23			No Unit	1	11/28/23 21:10	Calculation		AES
Sodium	5.81	1.00	0.079	mg/L	1	11/28/23 21:10	EPA200.7		AES

Total Metals by ICP

Barium	181	5.00	0.942	mg/kg dry	100	12/04/23 16:10	6010B		AES
Cadmium	<5.00	5.00	1.29	mg/kg dry	100	12/04/23 16:10	6010B		AES
Chromium	14.0	5.00	4.53	mg/kg dry	100	12/04/23 16:10	6010B		AES
Copper	17.2	10.0	4.61	mg/kg dry	100	12/04/23 16:10	6010B		AES
Lead	<10.0	10.0	1.88	mg/kg dry	100	12/04/23 16:10	6010B		AES
Nickel	9.90	5.00	1.41	mg/kg dry	100	12/04/23 16:10	6010B		AES
Selenium	<20.0	20.0	9.47	mg/kg dry	100	12/04/23 16:09	6010B		AES
Silver	<1.00	1.00	0.460	mg/kg dry	100	12/04/23 16:09	6010B		AES
Zinc	33.9	10.0	1.24	mg/kg dry	100	12/04/23 16:10	6010B		AES

Total Metals by ICPMS

Arsenic	4.14	1.00	0.158	mg/kg dry	1000	12/04/23 13:44	6020A		AES
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Hot Water Extractable

Boron	<1.20	1.20	0.568	mg/L	4	11/28/23 23:20	EPA200.7		AES
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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	11/17/23 17:39	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	11/17/23 17:39	8015B		MS
GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	11/17/23 17:39	8015B		MS

Surrogate: 1-Chlorooctadecane

79.2 % 49.1-148

11/17/23
17:39

8015B

MS

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Jeremy D Allen, Laboratory Director

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Project: Table 915-1
Project Name / Number: Harris (OWP) #5
Project Manager: Jacob Harter

Reported:
12/05/23 13:57

SS05**2311208-02 (Soil)****Sampled Date: 11/15/23 10:30**

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-Chlorooctane	78.8 %	48.2-134	11/17/23 17:39	8015B	MS
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VOLATILES BY GC/MS

1,2,4-Trimethylbenzene	<0.0250	0.0250	0.00650	mg/kg	50	11/22/23 20:50	8260B	ZZZ
1,3,5-Trimethylbenzene	<0.0250	0.0250	0.00450	mg/kg	50	11/22/23 20:50	8260B	ZZZ
Benzene*	<0.0250	0.0250	0.00885	mg/kg	50	11/22/23 20:50	8260B	ZZZ
Ethylbenzene*	<0.0250	0.0250	0.00405	mg/kg	50	11/22/23 20:50	8260B	ZZZ
m+p - Xylene*	<0.0500	0.0500	0.0186	mg/kg	50	11/22/23 20:50	8260B	ZZZ
Naphthalene*	<0.0250	0.0250	0.00500	mg/kg	50	11/22/23 20:50	8260B	ZZZ
o-Xylene*	<0.0250	0.0250	0.00700	mg/kg	50	11/22/23 20:50	8260B	ZZZ
Toluene*	<0.0250	0.0250	0.00670	mg/kg	50	11/22/23 20:50	8260B	ZZZ
Total Xylenes*	<0.0750	0.0750	0.0256	mg/kg	50	11/22/23 20:50	8260B	ZZZ

Surrogate: 4-Bromofluorobenzene	97.7 %	82.5-117	11/22/23 20:50	8260B	ZZZ
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Surrogate: Dibromofluoromethane	89.7 %	84.6-114	11/22/23 20:50	8260B	ZZZ
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Surrogate: Toluene-d8	97.8 %	90.4-109	11/22/23 20:50	8260B	ZZZ
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Polynuclear Aromatic Compounds by GC/MS

1-Methylnaphthalene	<0.016	0.040	0.016	mg/kg	40	11/20/23 20:03	8270C	MS
2-Methylnaphthalene*	<0.023	0.040	0.023	mg/kg	40	11/20/23 20:03	8270C	MS
Acenaphthene*	<0.024	0.040	0.024	mg/kg	40	11/20/23 20:03	8270C	MS
Anthracene*	<0.017	0.040	0.017	mg/kg	40	11/20/23 20:03	8270C	MS
Benzo[a]anthracene*	<0.023	0.040	0.023	mg/kg	40	11/20/23 20:03	8270C	MS
Benzo[a]pyrene*	<0.018	0.040	0.018	mg/kg	40	11/20/23 20:03	8270C	MS
Benzo[b]fluoranthene*	<0.019	0.040	0.019	mg/kg	40	11/20/23 20:03	8270C	MS
Benzo[k]fluoranthene*	<0.016	0.040	0.016	mg/kg	40	11/20/23 20:03	8270C	MS
Chrysene	<0.017	0.040	0.017	mg/kg	40	11/20/23 20:03	8270C	MS
Dibenz[a,h]anthracene*	<0.019	0.040	0.019	mg/kg	40	11/20/23 20:03	8270C	MS
Fluoranthene*	<0.019	0.040	0.019	mg/kg	40	11/20/23 20:03	8270C	MS
Fluorene*	<0.014	0.040	0.014	mg/kg	40	11/20/23 20:03	8270C	MS
Indeno[1,2,3-cd]pyrene*	<0.017	0.040	0.017	mg/kg	40	11/20/23 20:03	8270C	MS

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Jeremy D Allen, Laboratory Director

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Project: Table 915-1
Project Name / Number: Harris (OWP) #5
Project Manager: Jacob Harter

Reported:
12/05/23 13:57

SS05

2311208-02 (Soil)

Sampled Date: 11/15/23 10:30

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

Naphthalene*	<0.015	0.040	0.015	mg/kg	40	11/20/23 20:03	8270C		MS
Pyrene*	<0.013	0.040	0.013	mg/kg	40	11/20/23 20:03	8270C		MS
<i>Surrogate: 2-Fluorobiphenyl</i>			79.4 %	39.8-134		11/20/23 20:03	8270C		MS
<i>Surrogate: Nitrobenzene-d5</i>			56.5 %	39.6-121		11/20/23 20:03	8270C		MS
<i>Surrogate: Terphenyl-d14</i>			91.5 %	33.3-136		11/20/23 20:03	8270C		MS

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Project: Table 915-1
Project Name / Number: Harris (OWP) #5
Project Manager: Jacob Harter

Reported:
12/05/23 13:57

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 B233506 - General Prep - Wet Chem

Blank (B233506-BLK1)

Prepared: 11/22/23 Analyzed: 11/29/23

Hexavalent Chromium	ND	0.250	mg/kg dry							
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LCS (B233506-BS1)

Prepared: 11/22/23 Analyzed: 11/29/23

Hexavalent Chromium	2.41	0.250	mg/kg dry	2.50		96.5	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 B233478 - Paste Extract

Reference (B233478-SRM1)

Prepared: 11/20/23 Analyzed: 11/21/23

pH	7.64		pH Units	7.35		104	92-108			
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Batch B233482 - Paste Extract

Reference (B233482-SRM1)

Prepared: 11/20/23 Analyzed: 11/21/23

Conductivity	4890		umho/cm@25C	6480		75.5	90-110			BS3
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Batch B233484 - General Prep-SOILS

Blank (B233484-BLK1)

Prepared: 11/20/23 Analyzed: 11/28/23

Calcium	ND	0.100	mg/L							
Magnesium	ND	0.100	mg/L							
SAR	0.00		No Unit							
Sodium	ND	1.00	mg/L							

Reference (B233484-SRM1)

Prepared: 11/20/23 Analyzed: 11/28/23

SAR	5.69		No Unit	6.20		91.8	90-110			
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jeremy.allen@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: Table 915-1
Project Name / Number: Harris (OWP) #5
Project Manager: Jacob Harter

Reported:
12/05/23 13:57

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 B233507 - EPA 3050

Blank (B233507-BLK1)

Prepared: 11/22/23 Analyzed: 12/04/23

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 (B233507-BS1)

Prepared: 11/22/23 Analyzed: 12/04/23

Barium	187	5.00	mg/kg dry	200	93.4	80-120
Cadmium	175	5.00	mg/kg dry	200	87.7	80-120
Chromium	190	5.00	mg/kg dry	200	95.1	80-120
Copper	396	10.0	mg/kg dry	400	98.9	80-120
Lead	178	10.0	mg/kg dry	200	89.1	80-120
Nickel	180	5.00	mg/kg dry	200	89.8	80-120
Selenium	770	20.0	mg/kg dry	800	96.3	80-120
Silver	8.88	1.00	mg/kg dry	10.0	88.8	80-120
Zinc	167	10.0	mg/kg dry	200	83.7	80-120

LCS Dup (B233507-BSD1)

Prepared: 11/22/23 Analyzed: 12/04/23

Barium	186	5.00	mg/kg dry	200	93.1	80-120	0.334	20
Cadmium	174	5.00	mg/kg dry	200	86.9	80-120	0.942	20
Chromium	189	5.00	mg/kg dry	200	94.7	80-120	0.436	20
Copper	396	10.0	mg/kg dry	400	99.0	80-120	0.0422	20
Lead	178	10.0	mg/kg dry	200	88.8	80-120	0.427	20
Nickel	179	5.00	mg/kg dry	200	89.6	80-120	0.220	20
Selenium	762	20.0	mg/kg dry	800	95.2	80-120	1.12	20
Silver	8.86	1.00	mg/kg dry	10.0	88.6	80-120	0.244	20
Zinc	166	10.0	mg/kg dry	200	82.9	80-120	1.03	20

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jeremy.allen@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: Table 915-1
Project Name / Number: Harris (OWP) #5
Project Manager: Jacob Harter

Reported:
12/05/23 13:57

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 B233508 - EPA 3050M

Blank (B233508-BLK1)

Prepared: 11/22/23 Analyzed: 12/04/23

Arsenic	ND	0.100	mg/kg dry							
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LCS (B233508-BS1)

Prepared: 11/22/23 Analyzed: 12/04/23

Arsenic	5.26	0.100	mg/kg dry	5.00		105	80-120			
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LCS Dup (B233508-BSD1)

Prepared: 11/22/23 Analyzed: 12/04/23

Arsenic	5.20	0.100	mg/kg dry	5.00		104	80-120	1.06	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 B233479 - General Prep-SOILS

Blank (B233479-BLK1)

Prepared: 11/20/23 Analyzed: 11/28/23

Boron	ND	1.20	mg/L							
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jeremy.allen@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

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Durango CO, 81302

Project: Table 915-1
Project Name / Number: Harris (OWP) #5
Project Manager: Jacob Harter

Reported:
12/05/23 13:57

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 3111723 - General Prep - Organics

Blank (3111723-BLK1)

Prepared & Analyzed: 11/17/23

Surrogate: 1-Chlorooctadecane	48.5		mg/kg	50.0		97.0	49.1-148			
Surrogate: 1-Chlorooctane	46.5		mg/kg	50.0		92.9	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 (3111723-BS1)

Prepared & Analyzed: 11/17/23

Surrogate: 1-Chlorooctadecane	51.3		mg/kg	50.0		103	49.1-148			
Surrogate: 1-Chlorooctane	50.6		mg/kg	50.0		101	48.2-134			
DRO >C10-C28	180	10.0	mg/kg	200		89.8	66.5-118			
GRO C6-C10	181	10.0	mg/kg	200		90.7	66.4-123			
Total TPH C6-C28	361	10.0	mg/kg	400		90.2	77.6-123			

LCS Dup (3111723-BSD1)

Prepared & Analyzed: 11/17/23

Surrogate: 1-Chlorooctadecane	54.6		mg/kg	50.0		109	49.1-148			
Surrogate: 1-Chlorooctane	54.6		mg/kg	50.0		109	48.2-134			
DRO >C10-C28	184	10.0	mg/kg	200		92.2	66.5-118	2.73	21	
GRO C6-C10	186	10.0	mg/kg	200		93.2	66.4-123	2.69	17.7	
Total TPH C6-C28	371	10.0	mg/kg	400		92.7	77.6-123	2.71	18.5	

Batch 3111724 - General Prep - Organics

Blank (3111724-BLK1)

Prepared & Analyzed: 11/17/23

Surrogate: 1-Chlorooctadecane	56.5		mg/kg	50.0		113	49.1-148			
Surrogate: 1-Chlorooctane	53.6		mg/kg	50.0		107	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 (3111724-BS1)

Prepared & Analyzed: 11/17/23

Surrogate: 1-Chlorooctadecane	62.9		mg/kg	50.0		126	49.1-148			
Surrogate: 1-Chlorooctane	58.2		mg/kg	50.0		116	48.2-134			
DRO >C10-C28	212	10.0	mg/kg	200		106	66.5-118			
GRO C6-C10	211	10.0	mg/kg	200		105	66.4-123			
Total TPH C6-C28	423	10.0	mg/kg	400		106	77.6-123			

LCS Dup (3111724-BSD1)

Prepared & Analyzed: 11/17/23

Surrogate: 1-Chlorooctadecane	56.8		mg/kg	50.0		114	49.1-148			
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jeremy.allen@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: Table 915-1
Project Name / Number: Harris (OWP) #5
Project Manager: Jacob Harter

Reported:
12/05/23 13:57

**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 3111724 - General Prep - Organics (Continued)

LCS Dup (3111724-BSD1) (Continued)

Prepared & Analyzed: 11/17/23

<i>Surrogate: 1-Chlorooctane</i>	55.3		mg/kg	50.0		111	48.2-134			
DRO >C10-C28	194	10.0	mg/kg	200		97.2	66.5-118	8.62	21	
GRO C6-C10	191	10.0	mg/kg	200		95.6	66.4-123	9.87	17.7	
Total TPH C6-C28	386	10.0	mg/kg	400		96.4	77.6-123	9.24	18.5	

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jeremy.allen@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: Table 915-1
Project Name / Number: Harris (OWP) #5
Project Manager: Jacob Harter

Reported:
12/05/23 13:57

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 3112219 - Volatiles

Blank (3112219-BLK1)

Prepared & Analyzed: 11/22/23

1,2,4-Trimethylbenzene	ND	0.0250	mg/kg							
1,3,5-Trimethylbenzene	ND	0.0250	mg/kg							
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>1.17</i>		mg/kg	<i>1.25</i>		<i>94.0</i>	<i>82.5-117</i>			
Benzene	ND	0.0250	mg/kg							
<i>Surrogate: Dibromofluoromethane</i>	<i>1.21</i>		mg/kg	<i>1.25</i>		<i>97.1</i>	<i>84.6-114</i>			
Ethylbenzene	ND	0.0250	mg/kg							
m+p - Xylene	ND	0.0500	mg/kg							
Naphthalene	ND	0.0250	mg/kg							
o-Xylene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	mg/kg							
<i>Surrogate: Toluene-d8</i>	<i>1.26</i>		mg/kg	<i>1.25</i>		<i>101</i>	<i>90.4-109</i>			
Total Xylenes	ND	0.0750	mg/kg							

LCS (3112219-BS1)

Prepared & Analyzed: 11/22/23

1,2,4-Trimethylbenzene	0.533	0.0250	mg/kg	0.500		107	62.4-140			
1,3,5-Trimethylbenzene	0.540	0.0250	mg/kg	0.500		108	64.4-138			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>1.24</i>		mg/kg	<i>1.25</i>		<i>99.3</i>	<i>82.5-117</i>			
Benzene	0.522	0.0250	mg/kg	0.500		104	73-130			
<i>Surrogate: Dibromofluoromethane</i>	<i>1.22</i>		mg/kg	<i>1.25</i>		<i>97.9</i>	<i>84.6-114</i>			
Ethylbenzene	0.557	0.0250	mg/kg	0.500		111	75.4-127			
m+p - Xylene	1.06	0.0500	mg/kg	1.00		106	71.8-133			
Naphthalene	0.476	0.0250	mg/kg	0.500		95.2	28.7-158			
o-Xylene	0.509	0.0250	mg/kg	0.500		102	78.6-125			
Toluene	0.508	0.0250	mg/kg	0.500		102	79-122			
<i>Surrogate: Toluene-d8</i>	<i>1.26</i>		mg/kg	<i>1.25</i>		<i>101</i>	<i>90.4-109</i>			
Total Xylenes	1.57	0.0750	mg/kg	1.50		105	74.6-130			

LCS Dup (3112219-BSD1)

Prepared & Analyzed: 11/22/23

1,2,4-Trimethylbenzene	0.545	0.0250	mg/kg	0.500		109	62.4-140	2.20	38.2	
1,3,5-Trimethylbenzene	0.546	0.0250	mg/kg	0.500		109	64.4-138	1.05	39.1	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>1.23</i>		mg/kg	<i>1.25</i>		<i>98.5</i>	<i>82.5-117</i>			
Benzene	0.535	0.0250	mg/kg	0.500		107	73-130	2.55	17.1	
<i>Surrogate: Dibromofluoromethane</i>	<i>1.17</i>		mg/kg	<i>1.25</i>		<i>93.5</i>	<i>84.6-114</i>			
Ethylbenzene	0.574	0.0250	mg/kg	0.500		115	75.4-127	3.04	16.5	
m+p - Xylene	1.11	0.0500	mg/kg	1.00		111	71.8-133	4.13	19.1	
Naphthalene	0.531	0.0250	mg/kg	0.500		106	28.7-158	10.9	64	
o-Xylene	0.518	0.0250	mg/kg	0.500		104	78.6-125	1.66	13.2	
Toluene	0.525	0.0250	mg/kg	0.500		105	79-122	3.25	18.3	

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jeremy.allen@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: Table 915-1
Project Name / Number: Harris (OWP) #5
Project Manager: Jacob Harter

Reported:
12/05/23 13:57

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 3112219 - Volatiles (Continued)

LCS Dup (3112219-BSD1) (Continued)

Prepared & Analyzed: 11/22/23

Surrogate: Toluene-d8	1.27		mg/kg	1.25		101	90.4-109			
Total Xylenes	1.63	0.0750	mg/kg	1.50		108	74.6-130	3.34	16.5	

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

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Cottonwood Consulting
PO Box 1653
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Project: Table 915-1
Project Name / Number: Harris (OWP) #5
Project Manager: Jacob Harter

Reported:
12/05/23 13:57

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 3111717 - SW846-3510

Blank (3111717-BLK1)

Prepared: 11/17/23 Analyzed: 11/20/23

1-Methylnaphthalene	ND	0.040	mg/kg							
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>1.80</i>		mg/kg	<i>2.00</i>		<i>90.1</i>	<i>39.8-134</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	0.020	0.040	mg/kg							J
Indeno[1,2,3-cd]pyrene	0.023	0.040	mg/kg							J
Naphthalene	ND	0.040	mg/kg							
<i>Surrogate: Nitrobenzene-d5</i>	<i>1.34</i>		mg/kg	<i>2.00</i>		<i>67.0</i>	<i>39.6-121</i>			
Pyrene	ND	0.040	mg/kg							
<i>Surrogate: Terphenyl-d14</i>	<i>1.79</i>		mg/kg	<i>2.00</i>		<i>89.5</i>	<i>33.3-136</i>			

LCS (3111717-BS1)

Prepared: 11/17/23 Analyzed: 11/20/23

1-Methylnaphthalene	0.336	0.040	mg/kg	0.400		84.1	57.6-108			
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>1.87</i>		mg/kg	<i>2.00</i>		<i>93.7</i>	<i>39.8-134</i>			
2-Methylnaphthalene	0.366	0.040	mg/kg	0.400		91.4	59-106			
Acenaphthene	0.358	0.040	mg/kg	0.400		89.4	60.9-105			
Acenaphthylene	0.372	0.040	mg/kg	0.400		93.0	57.4-107			
Anthracene	0.365	0.040	mg/kg	0.400		91.2	60.8-105			
Benzo[a]anthracene	0.341	0.040	mg/kg	0.400		85.3	56.1-121			
Benzo[a]pyrene	0.375	0.040	mg/kg	0.400		93.7	56.7-115			
Benzo[b]fluoranthene	0.349	0.040	mg/kg	0.400		87.2	45.4-128			
Benzo[g,h,i]perylene	0.406	0.040	mg/kg	0.400		101	56.5-107			
Benzo[k]fluoranthene	0.373	0.040	mg/kg	0.400		93.1	49.6-119			
Carbazole	0.378	0.040	mg/kg	0.400		94.5	59.7-107			
Chrysene	0.364	0.040	mg/kg	0.400		91.0	12.2-190			
Dibenz[a,h]anthracene	0.401	0.040	mg/kg	0.400		100	59.1-111			
Fluoranthene	0.390	0.040	mg/kg	0.400		97.5	60.6-111			
Fluorene	0.374	0.040	mg/kg	0.400		93.4	59.3-108			
Indeno[1,2,3-cd]pyrene	0.400	0.040	mg/kg	0.400		100	53.4-116			
Naphthalene	0.338	0.040	mg/kg	0.400		84.6	56.5-106			

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jeremy.allen@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: Table 915-1
Project Name / Number: Harris (OWP) #5
Project Manager: Jacob Harter

Reported:
12/05/23 13:57

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 3111717 - SW846-3510 (Continued)

LCS (3111717-BS1) (Continued)

Prepared: 11/17/23 Analyzed: 11/20/23

Surrogate: Nitrobenzene-d5	1.38		mg/kg	2.00		69.2	39.6-121			
Phenanthrene	0.367	0.040	mg/kg	0.400		91.8	59.9-107			
Pyrene	0.338	0.040	mg/kg	0.400		84.6	51.5-122			
Surrogate: Terphenyl-d14	1.64		mg/kg	2.00		81.8	33.3-136			

LCS Dup (3111717-BS1)

Prepared: 11/17/23 Analyzed: 11/20/23

1-Methylnaphthalene	0.341	0.040	mg/kg	0.400		85.2	57.6-108	1.35	6.22	
Surrogate: 2-Fluorobiphenyl	1.83		mg/kg	2.00		91.7	39.8-134			
2-Methylnaphthalene	0.364	0.040	mg/kg	0.400		90.9	59-106	0.568	6.23	
Acenaphthene	0.350	0.040	mg/kg	0.400		87.5	60.9-105	2.14	8.18	
Acenaphthylene	0.363	0.040	mg/kg	0.400		90.8	57.4-107	2.44	5	
Anthracene	0.365	0.040	mg/kg	0.400		91.3	60.8-105	0.0986	3.68	
Benzo[a]anthracene	0.343	0.040	mg/kg	0.400		85.6	56.1-121	0.377	9.01	
Benzo[a]pyrene	0.377	0.040	mg/kg	0.400		94.3	56.7-115	0.606	4.92	
Benzo[b]fluoranthene	0.354	0.040	mg/kg	0.400		88.4	45.4-128	1.38	7.63	
Benzo[g,h,i]perylene	0.393	0.040	mg/kg	0.400		98.2	56.5-107	3.25	12.5	
Benzo[k]fluoranthene	0.376	0.040	mg/kg	0.400		93.9	49.6-119	0.823	10.6	
Carbazole	0.368	0.040	mg/kg	0.400		92.1	59.7-107	2.60	8.65	
Chrysene	0.360	0.040	mg/kg	0.400		90.0	12.2-190	1.09	21.8	
Dibenz[a,h]anthracene	0.392	0.040	mg/kg	0.400		98.0	59.1-111	2.19	11.6	
Fluoranthene	0.383	0.040	mg/kg	0.400		95.8	60.6-111	1.73	7.54	
Fluorene	0.370	0.040	mg/kg	0.400		92.5	59.3-108	1.02	5.49	
Indeno[1,2,3-cd]pyrene	0.394	0.040	mg/kg	0.400		98.6	53.4-116	1.48	22.3	
Naphthalene	0.339	0.040	mg/kg	0.400		84.6	56.5-106	0.0916	4.56	
Surrogate: Nitrobenzene-d5	1.38		mg/kg	2.00		68.8	39.6-121			
Phenanthrene	0.372	0.040	mg/kg	0.400		93.0	59.9-107	1.24	5.21	
Pyrene	0.338	0.040	mg/kg	0.400		84.4	51.5-122	0.127	10.6	
Surrogate: Terphenyl-d14	1.65		mg/kg	2.00		82.6	33.3-136			

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Jeremy D Allen, Laboratory Director

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Project: Table 915-1
Project Name / Number: Harris (OWP) #5
Project Manager: Jacob Harter

Reported:
12/05/23 13:57

Notes and Definitions

J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
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'.

Jeremy D Allen, Laboratory Director

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Project: Table 915-1
Project Name / Number: Harris (OWP) #5
Project Manager: Jacob Harter

Reported:
12/05/23 13:57

Qualifier Summary

<u>LabNumber</u>	<u>Analysis</u>	<u>Analyte</u>	<u>Qualifier</u>	<u>TextBody</u>
B233482-SRM1	Conductivity on Paste Extract	Conductivity	BS3	Laboratory control sample did not meet laboratory acceptance criteria.

Green Analytical Laboratories

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

Jeremy D Allen, Laboratory Director

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(970) 247-4220 service@greenanalytical.com or dzufelt@greenanalytical.com
 Fax: (970) 247-4227 75 Suttle St Durango, CO 81303

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Cottonwood Consulting

Project Manager: Jacob Harter

Address: PO Box 1653

City: Durango

Phone #: (970) 946-3761

Email: jharter@cottonwoodconsulting.com

Additional Report To:

Project Name: Harris (owl) #5

Project Number:

Sampler Name (Print): Dylan Sanger

FOR LAB USE ONLY

Lab I.D.

Sample Name or Location

2311-240

01

02

3504

3505

11/15/23 1025

11/15/23 1030

GROUNDWATER
 SURFACEWATER
 WASTEWATER
 PRODUCEDWATER
 SOIL
 OTHER :
 No preservation (general)
 HNO₃
 HCl
 H₂SO₄
 Other:
 Other:
 Other:

Collected

Matrix (check one)

of containers

ANALYSIS REQUEST

Bill to (if different):

P.O. #:

Company:

Attn:

Address:

City:

State:

Phone #:

Fax or Email:

ECMC Table 915

XX

ADDITIONAL REMARKS:

Report to State? (Circle)

Yes

No

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 analysis. 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:

Date: 11/15/23

Received By:

Time: 1707

Date:

Received By:

Time:

Date:

Received By:

Time:

Date:

Received By:

Delivered By: (Circle One)

Sampler UPS - FedEx - Kangaroo - Other:

laser #2

Temperature at receipt:

CHECKED BY:

on ice

15.9°C

WEN

* 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 # 2311-208

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: 15.9 °C Correction Factor: 0 °C Final Temp: 15.9 °C

*Temp should be above freezing to 6°C

Date/Initials of person
examining contents: 11/16/23
02

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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No	12.
Matrix:	WT SL 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: _____