

TABLE 1
SOIL ANALYTICAL RESULTS SUMMARY
RORY 1
40.295302 / -104.841124
NE1/4 SW1/4 SEC.24 T4N R67W 6PM
WELD COUNTY, COLORADO
REMEDIATION # 20088

Sample ID	Date Sampled	Approximate Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	1,2,4-TMB (mg/kg)	1,3,5-TMB (mg/kg)	Naphthalene (mg/kg)	TVPH-GRO (mg/kg)	TEPH-DRO (mg/kg)	TEPH-RRO (mg/kg)
<i>COGCC Table 915-1 Residential Screening Levels</i>			1.2	490	5.8	58	30	27	2	500		
<i>COGCC Table 915-1 Protection of Groundwater Screening Levels</i>			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038	500		
WH-01 @ 7'	11/8/2021	7	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
FLR-01 @ 3'	11/8/2021	3	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
FL-01 @ 4'	12/3/2021	4	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
FL-02 @ 4'	12/3/2021	4	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50

COGCC = Colorado Oil and Gas Conservation Commission

bgs = below ground surface

mg/kg = milligrams per kilogram

TMB = Trimethylbenzene

TVPH-GRO = Total Volatile Petroleum Hydrocarbons - Gasoline Range Organics

TEPH-DRO = Total Extractable Petroleum Hydrocarbons - Diesel Range Organics

TEPH-RRO = Total Extractable Petroleum Hydrocarbons - Residual Range Organics



TABLE 2
POLYCYCLIC AROMATIC HYDROCARBONS - SOIL ANALYTICAL RESULTS SYMMARY
RORY 1
40.295302 / -104.841124
NE1/4 SW1/4 SEC.24 T4N R67W 6PM
WELD COUNTY, COLORADO
REMIEDIATION # 20088

Sample ID	Date	Approximate Depth (feet)	1-Methyl-naphthalene (mg/kg)	2-Methyl-naphthalene (mg/kg)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo(a)-anthracene (mg/kg)	Benzo(a)-pyrene (mg/kg)	Benzo(b)-fluoranthene (mg/kg)	Benzo(k)-fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenzo(a,h)-anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Ideno(1,2,3-cd)-pyrene (mg/kg)	Pyrene (mg/kg)
COGCC Table 915-1 Residential Screening Levels			18	24	360	1,800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	180
COGCC Table 915-1 Protection of Groundwater Screening Levels			0.006	0.019	0.55	5.8	0.011	0.24	0.3	2.9	9	0.096	8.9	0.54	0.98	1.3
WH-01 @ 7'	11/8/2021	7	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
FLR-01 @ 3'	11/8/2021	3	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500

COGCC = Colorado Oil and Gas Conservation Commission
mg/kg = milligrams per kilogram

Notes:
Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit.

TABLE 3
INORGANICS COMPOUNDS - SOIL ANALYTICAL RESULTS SUMMARY
RORY 1
40.295302 / -104.841124
NE1/4 SW1/4 SEC.24 T4N R67W 6PM
WELD COUNTY, COLORADO
REMEDATION # 20088

Sample ID	Date Sampled	Approximate Depth (feet bgs)	pH (units)	EC (mmhos/cm)	SAR (units)	Boron (mg/L)
COGCC Table 915-1 Soil Suitability for Reclamation Standards			6-8.3	<4	<6	2
WH-01 @ 7'	11/8/2021	7	8.76	0.348	0.991	<0.0100
FLR-01 @ 3'	11/8/2021	3	8.17	0.825	2.08	<0.0100
BKG-01 @ 7'	11/8/2021	7	7.84	NA	NA	NA

COGCC = Colorado Oil and Gas Conservation Commission

EC = Electrical conductivity

SAR = Sodium adsorption ratio

mmhos/cm = millimhos per centimeter

mg/L = milligrams per liter

bgs = below ground surface

NA = not analyzed



**TABLE 4
FIELD DATA SUMMARY
RORY 1
40.295302 / -104.841124
NE1/4 SW1/4 SEC.24 T4N R67W 6PM
WELD COUNTY, COLORADO
REMEDATION # 20088**

Sample ID	Date Sampled	Depth (feet bgs)	GPS Data Latitude / Longitude		VOC Concentration (ppm-v)
WH-01 @ 7'	11/8/2021	7	40.295300	-104.841133	10.3
FLR-01 @ 3'	11/8/2021	3	40.295279	-104.841115	3.6
WHS-01-N @ 0.5'	11/8/2021	0.5	40.295335	-104.841121	1.3
WHS-01-E @ 0.5'	11/8/2021	0.5	40.295287	-104.841080	0.7
WHS-01-S @ 0.5'	11/8/2021	0.5	40.295262	-104.841155	0.9
WHS-01-W @ 0.5'	11/8/2021	0.5	40.295314	-104.841194	1.1
BKG-01 @ 7'	11/8/2021	7	40.295368	-104.841129	1.4
FL-01 @ 4'	12/3/2021	4	40.295293	-104.840790	2.5
FL-02 @ 4'	11/8/2021	4	40.295332	-104.839712	2.2
FL-03 @ 4'	12/3/2021	4	40.295301	-104.840390	1.6

GPS = Global positioning system (provided in decimal degrees utilizing World Geodetic System (WGS) 84 UTM Zone 13 North)

VOC = Volatile organic compound
ppm-v = parts per million by volume
bgs = below ground surface

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

January 21, 2022

Martin Eckert III
Eagle Environmental Consulting
8000 W 44th Ave
Wheat Ridge, CO 80033

RE: Rory 1

Work Order #2111147

Enclosed are the results of analyses for samples received by Summit Scientific on 11/08/21 17:59. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Paul Shrewsbury
President



Eagle Environmental Consulting
8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Rory 1
Project Number: [none]
Project Manager: Martin Eckert III

Reported:
01/21/22 10:05

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-01@7'	2111147-01	Soil	11/08/21 12:35	11/08/21 17:59
FLR-01@3'	2111147-02	Soil	11/08/21 12:40	11/08/21 17:59
BKG-01@7'	2111147-05	Soil	11/08/21 13:05	11/08/21 17:59

Summit Scientific

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.

Summit Scientific

S₂

2111147

4653 Table Mountain Drive ♦ Golden, Colorado 80403
303-277-9310

Page 1 of 1

Client: Eagle Environmental Project Manager: Martin Eckert III
 Address: 8000 W 44th Ave E-Mail: mce3@eagle-enviro.com
 City/State/Zip: Wheat Ridge CO
 Phone: 303 433 0479 Project Name: ~~Rory 1~~ Rory 1
 Sampler Name: KFITC Project Number: -

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested						Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX, N, TMS	TPH (C6-C16)	PAH	PH, EC, SAR, Boron	Hold			
1	WH-01@ 7'	11/8/21	1235	3			X			X				X	X	X	X		X	PH, EC, SAR by Saturated paste prep
2	FLR-01@ 3'	↓	1240	↓										X	X	X	X			
3	FL-01@ 4'	↓	1330	↓										X	X		PH, EC, SAR		X	
4	FL-02@ 4'	↓	1340	↓										X	X		PH, EC, SAR		X	
5	BKG-01@ 7'		1305																X	
6																				
7																				
8																				
9																				
10																				

Relinquished by: <u>[Signature]</u>	Date/Time: <u>11/8/21 1752</u>	Received by: <u>Sheva Beln</u>	Date/Time: <u>11/8/21 6:59 PM</u>	Turn Around Time (Check)	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day <input type="checkbox"/>	72 hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/>
Relinquished by:	Date/Time:	Received by:	Date/Time:	24 hours <input type="checkbox"/>	
Relinquished by:	Date/Time:	Received by:	Date/Time:	48 hours <input type="checkbox"/>	
				Sample Integrity:	
				Temperature Upon Receipt: <u>4.0</u>	
				Samples Intact: Yes No	

S₂

Sample Receipt Checklist

S2 Work Order# _____

2111147

Client: Eagle Environmental Client Project ID: Rory 1

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other _____ Airbill #: _____

Matrix (check all that apply): Air Soil/Solid Water Other: _____ (Describe)

Temp (°C)	<u>4.0</u>
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Thermometer ID: G86A9201901378

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C ⁽¹⁾ ? NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>ice</u>
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If custody seals are present, are they intact ⁽¹⁾ ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples with holding times due within 48 hours sample due within 48 hours present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ? Note the type of preservative in the Comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ? Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any): 				
⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.				

SB
Custodian Printed Name or Initials

11/8/21 6:54
Date/Time



Eagle Environmental Consulting
8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Rory I
Project Number: [none]
Project Manager: Martin Eckert III

Reported:
01/21/22 10:05

WH-01@7'
2111147-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/08/21 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BEK0244	11/10/21	11/11/21	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **11/08/21 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		100 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		102 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/08/21 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BEK0245	11/10/21	11/13/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/08/21 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		98.7 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Eagle Environmental Consulting
8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Rory I
Project Number: [none]
Project Manager: Martin Eckert III

Reported:
01/21/22 10:05

WH-01@7'
2111147-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/08/21 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BEK0306	11/15/21	11/16/21	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/08/21 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		75.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		69.3 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/08/21 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	0.0100	mg/L	1	BEK0221	11/10/21	11/10/21	EPA 6020B	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **11/08/21 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Eagle Environmental Consulting
 8000 W 44th Ave
 Wheat Ridge CO, 80033

Project: Rory I
 Project Number: [none]
 Project Manager: Martin Eckert III

Reported:
 01/21/22 10:05

WH-01@7'
2111147-01 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	28.5	0.0530	mg/L dry	1	BEK0340	11/15/21	11/22/21	EPA 6020B	
Magnesium	6.83	0.0530	"	"	"	"	"	"	
Sodium	22.7	0.0530	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/08/21 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.991	0.00100	units	1	BEK0504	11/23/21	11/23/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/08/21 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.4		%	1	BEK0284	11/12/21	11/12/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/08/21 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.348	0.0100	mmhos/cm	1	BEK0381	11/17/21	11/17/21	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **11/08/21 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.76		pH Units	1	BEK0243	11/10/21	11/10/21	EPA 9045D	

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8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Rory I
Project Number: [none]
Project Manager: Martin Eckert III

Reported:
01/21/22 10:05

FLR-01@3'
2111147-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/08/21 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BEK0244	11/10/21	11/11/21	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **11/08/21 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		99.2 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		101 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/08/21 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BEK0245	11/10/21	11/13/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/08/21 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		94.3 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Rory I
Project Number: [none]
Project Manager: Martin Eckert III

Reported:
01/21/22 10:05

FLR-01@3'
2111147-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/08/21 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BEK0306	11/15/21	11/16/21	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/08/21 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		72.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		70.8 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/08/21 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	0.0100	mg/L	1	BEK0221	11/10/21	11/10/21	EPA 6020B	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **11/08/21 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Eagle Environmental Consulting
 8000 W 44th Ave
 Wheat Ridge CO, 80033

Project: Rory I
 Project Number: [none]
 Project Manager: Martin Eckert III

Reported:
 01/21/22 10:05

FLR-01@3'
2111147-02 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	69.0	0.0513	mg/L dry	1	BEK0340	11/15/21	11/22/21	EPA 6020B	
Magnesium	16.7	0.0513	"	"	"	"	"	"	
Sodium	74.3	0.0513	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/08/21 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.08	0.00100	units	1	BEK0504	11/23/21	11/23/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/08/21 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	97.4		%	1	BEK0284	11/12/21	11/12/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/08/21 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.825	0.0100	mmhos/cm	1	BEK0381	11/17/21	11/17/21	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **11/08/21 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.17		pH Units	1	BEK0243	11/10/21	11/10/21	EPA 9045D	

Summit Scientific

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Eagle Environmental Consulting
 8000 W 44th Ave
 Wheat Ridge CO, 80033

Project: Rory I
 Project Number: [none]
 Project Manager: Martin Eckert III

Reported:
 01/21/22 10:05

BKG-01@7'
2111147-05 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **11/08/21 13:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	7.84		pH Units	1	BEL0098	12/03/21	12/06/21	EPA 9045D	I-04

Summit Scientific

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Eagle Environmental Consulting
8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Rory I

Project Number: [none]
Project Manager: Martin Eckert III

Reported:
01/21/22 10:05

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BEK0244 - EPA 5030 Soil MS

Blank (BEK0244-BLK1)

Prepared: 11/10/21 Analyzed: 11/11/21

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0400</i>		<i>"</i>	<i>0.0400</i>		<i>100</i>		<i>23-173</i>		
<i>Surrogate: Toluene-d8</i>	<i>0.0397</i>		<i>"</i>	<i>0.0400</i>		<i>99.2</i>		<i>20-170</i>		
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0400</i>		<i>"</i>	<i>0.0400</i>		<i>100</i>		<i>21-167</i>		

LCS (BEK0244-BS1)

Prepared: 11/10/21 Analyzed: 11/11/21

Benzene	0.137	0.0020	mg/kg	0.150		91.1		70-130		
Toluene	0.137	0.0050	"	0.150		91.4		70-130		
Ethylbenzene	0.136	0.0050	"	0.150		90.5		70-130		
m,p-Xylene	0.271	0.010	"	0.300		90.5		70-130		
o-Xylene	0.137	0.0050	"	0.150		91.5		70-130		
1,2,4-Trimethylbenzene	0.138	0.0050	"	0.150		92.2		70-130		
1,3,5-Trimethylbenzene	0.139	0.0050	"	0.150		92.8		70-130		
Naphthalene	0.139	0.0038	"	0.150		92.7		70-130		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0400</i>		<i>"</i>	<i>0.0400</i>		<i>100</i>		<i>23-173</i>		
<i>Surrogate: Toluene-d8</i>	<i>0.0394</i>		<i>"</i>	<i>0.0400</i>		<i>98.6</i>		<i>20-170</i>		
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0401</i>		<i>"</i>	<i>0.0400</i>		<i>100</i>		<i>21-167</i>		

Matrix Spike (BEK0244-MS1)

Source: 2111137-01

Prepared: 11/10/21 Analyzed: 11/11/21

Benzene	0.120	0.0020	mg/kg	0.150	ND	79.9		70-130		
Toluene	0.122	0.0050	"	0.150	ND	81.0		70-130		
Ethylbenzene	0.118	0.0050	"	0.150	ND	78.8		70-130		
m,p-Xylene	0.235	0.010	"	0.300	ND	78.2		70-130		
o-Xylene	0.118	0.0050	"	0.150	ND	78.8		70-130		
1,2,4-Trimethylbenzene	0.114	0.0050	"	0.150	ND	75.9		70-130		
1,3,5-Trimethylbenzene	0.116	0.0050	"	0.150	ND	77.6		70-130		
Naphthalene	0.119	0.0038	"	0.150	ND	79.2		70-130		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0402</i>		<i>"</i>	<i>0.0400</i>		<i>100</i>		<i>23-173</i>		
<i>Surrogate: Toluene-d8</i>	<i>0.0397</i>		<i>"</i>	<i>0.0400</i>		<i>99.2</i>		<i>20-170</i>		
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0396</i>		<i>"</i>	<i>0.0400</i>		<i>98.9</i>		<i>21-167</i>		

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Eagle Environmental Consulting
 8000 W 44th Ave
 Wheat Ridge CO, 80033

Project: Rory I
 Project Number: [none]
 Project Manager: Martin Eckert III

Reported:
 01/21/22 10:05

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

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

Batch BEK0244 - EPA 5030 Soil MS

Matrix Spike Dup (BEK0244-MSD1)	Source: 2111137-01			Prepared: 11/10/21 Analyzed: 11/11/21					
Benzene	0.120	0.0020	mg/kg	0.150	ND	80.1	70-130	0.200	30
Toluene	0.121	0.0050	"	0.150	ND	80.8	70-130	0.222	30
Ethylbenzene	0.116	0.0050	"	0.150	ND	77.6	70-130	1.48	30
m,p-Xylene	0.229	0.010	"	0.300	ND	76.2	70-130	2.53	30
o-Xylene	0.115	0.0050	"	0.150	ND	76.5	70-130	3.01	30
1,2,4-Trimethylbenzene	0.112	0.0050	"	0.150	ND	74.8	70-130	1.54	30
1,3,5-Trimethylbenzene	0.113	0.0050	"	0.150	ND	75.6	70-130	2.59	30
Naphthalene	0.117	0.0038	"	0.150	ND	77.9	70-130	1.68	30
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0424</i>		<i>"</i>	<i>0.0400</i>		<i>106</i>	<i>23-173</i>		
<i>Surrogate: Toluene-d8</i>	<i>0.0405</i>		<i>"</i>	<i>0.0400</i>		<i>101</i>	<i>20-170</i>		
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0400</i>		<i>"</i>	<i>0.0400</i>		<i>100</i>	<i>21-167</i>		

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Eagle Environmental Consulting
 8000 W 44th Ave
 Wheat Ridge CO, 80033

Project: Rory I
 Project Number: [none]
 Project Manager: Martin Eckert III

Reported:
 01/21/22 10:05

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BEK0245 - EPA 3550A

Blank (BEK0245-BLK1)

Prepared: 11/10/21 Analyzed: 11/13/21

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							

LCS (BEK0245-BS1)

Prepared: 11/10/21 Analyzed: 11/13/21

C10-C28 (DRO)	433	50	mg/kg	500		86.5	70-130			
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Matrix Spike (BEK0245-MS1)

Source: 2111137-01

Prepared: 11/10/21 Analyzed: 11/13/21

C10-C28 (DRO)	487	50	mg/kg	500	ND	97.5	70-130			
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Matrix Spike Dup (BEK0245-MSD1)

Source: 2111137-01

Prepared: 11/10/21 Analyzed: 11/13/21

C10-C28 (DRO)	440	50	mg/kg	500	ND	88.0	70-130	10.3	20	
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Eagle Environmental Consulting
8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Rory I
Project Number: [none]
Project Manager: Martin Eckert III

Reported:
01/21/22 10:05

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BEK0306 - EPA 5030 Soil MS

Blank (BEK0306-BLK1)

Prepared & Analyzed: 11/15/21

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0269		"	0.0333		80.8	40-150			
Surrogate: Fluoranthene-d10	0.0270		"	0.0333		80.9	40-150			

LCS (BEK0306-BS1)

Prepared & Analyzed: 11/15/21

Acenaphthene	0.0324	0.00500	mg/kg	0.0333		97.1	31-137			
Anthracene	0.0317	0.00500	"	0.0333		95.0	30-120			
Benzo (a) anthracene	0.0327	0.00500	"	0.0333		98.0	30-120			
Benzo (a) pyrene	0.0316	0.00500	"	0.0333		94.9	30-120			
Benzo (b) fluoranthene	0.0314	0.00500	"	0.0333		94.3	30-120			
Benzo (k) fluoranthene	0.0321	0.00500	"	0.0333		96.3	30-120			
Chrysene	0.0309	0.00500	"	0.0333		92.8	30-120			
Dibenz (a,h) anthracene	0.0350	0.00500	"	0.0333		105	30-120			
Fluoranthene	0.0326	0.00500	"	0.0333		97.7	30-120			
Fluorene	0.0342	0.00500	"	0.0333		103	30-120			
Indeno (1,2,3-cd) pyrene	0.0238	0.00500	"	0.0333		71.6	30-120			
Pyrene	0.0328	0.00500	"	0.0333		98.5	35-142			
1-Methylnaphthalene	0.0325	0.00500	"	0.0333		97.6	35-142			
2-Methylnaphthalene	0.0328	0.00500	"	0.0333		98.3	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0333		"	0.0333		100	40-150			
Surrogate: Fluoranthene-d10	0.0349		"	0.0333		105	40-150			

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Eagle Environmental Consulting
8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Rory 1

Project Number: [none]
Project Manager: Martin Eckert III

Reported:
01/21/22 10:05

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BEK0306 - EPA 5030 Soil MS

Matrix Spike (BEK0306-MS1)	Source: 2111122-01			Prepared & Analyzed: 11/15/21						
Acenaphthene	0.0267	0.00500	mg/kg	0.0333	ND	80.2	31-137			
Anthracene	0.0268	0.00500	"	0.0333	ND	80.4	30-120			
Benzo (a) anthracene	0.0281	0.00500	"	0.0333	ND	84.3	30-120			
Benzo (a) pyrene	0.0269	0.00500	"	0.0333	ND	80.7	30-120			
Benzo (b) fluoranthene	0.0270	0.00500	"	0.0333	ND	81.1	30-120			
Benzo (k) fluoranthene	0.0277	0.00500	"	0.0333	ND	83.2	30-120			
Chrysene	0.0264	0.00500	"	0.0333	ND	79.2	30-120			
Dibenz (a,h) anthracene	0.0287	0.00500	"	0.0333	ND	86.0	30-120			
Fluoranthene	0.0287	0.00500	"	0.0333	ND	86.1	30-120			
Fluorene	0.0292	0.00500	"	0.0333	ND	87.5	30-120			
Indeno (1,2,3-cd) pyrene	0.0197	0.00500	"	0.0333	ND	59.0	30-120			
Pyrene	0.0286	0.00500	"	0.0333	ND	85.9	35-142			
1-Methylnaphthalene	0.0278	0.00500	"	0.0333	ND	83.5	15-130			
2-Methylnaphthalene	0.0303	0.00500	"	0.0333	ND	90.9	15-130			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0293</i>		<i>"</i>	<i>0.0333</i>		<i>87.9</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0304</i>		<i>"</i>	<i>0.0333</i>		<i>91.3</i>	<i>40-150</i>			

Matrix Spike Dup (BEK0306-MSD1)	Source: 2111122-01			Prepared & Analyzed: 11/15/21						
Acenaphthene	0.0264	0.00500	mg/kg	0.0333	ND	79.2	31-137	1.26	30	
Anthracene	0.0287	0.00500	"	0.0333	ND	86.2	30-120	7.00	30	
Benzo (a) anthracene	0.0288	0.00500	"	0.0333	ND	86.3	30-120	2.34	30	
Benzo (a) pyrene	0.0282	0.00500	"	0.0333	ND	84.7	30-120	4.82	30	
Benzo (b) fluoranthene	0.0280	0.00500	"	0.0333	ND	84.1	30-120	3.64	30	
Benzo (k) fluoranthene	0.0287	0.00500	"	0.0333	ND	86.0	30-120	3.33	30	
Chrysene	0.0272	0.00500	"	0.0333	ND	81.7	30-120	3.03	30	
Dibenz (a,h) anthracene	0.0308	0.00500	"	0.0333	ND	92.5	30-120	7.20	30	
Fluoranthene	0.0301	0.00500	"	0.0333	ND	90.3	30-120	4.80	30	
Fluorene	0.0292	0.00500	"	0.0333	ND	87.7	30-120	0.224	30	
Indeno (1,2,3-cd) pyrene	0.0203	0.00500	"	0.0333	ND	60.8	30-120	3.15	30	
Pyrene	0.0299	0.00500	"	0.0333	ND	89.6	35-142	4.30	30	
1-Methylnaphthalene	0.0282	0.00500	"	0.0333	ND	84.6	15-130	1.23	50	
2-Methylnaphthalene	0.0288	0.00500	"	0.0333	ND	86.3	15-130	5.27	50	
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0307</i>		<i>"</i>	<i>0.0333</i>		<i>92.1</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0329</i>		<i>"</i>	<i>0.0333</i>		<i>98.6</i>	<i>40-150</i>			

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Eagle Environmental Consulting
 8000 W 44th Ave
 Wheat Ridge CO, 80033

Project: Rory I
 Project Number: [none]
 Project Manager: Martin Eckert III

Reported:
 01/21/22 10:05

Total Metals by EPA 6020B Hot Water Soluble Extraction - Quality Control
Summit Scientific

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

Batch BEK0221 - EPA 3050B

Blank (BEK0221-BLK1)				Prepared & Analyzed: 11/10/21						
Boron	ND	0.0100	mg/L							
LCS (BEK0221-BS1)				Prepared & Analyzed: 11/10/21						
Boron	5.77	0.0100	mg/L	5.00		115	80-120			
Duplicate (BEK0221-DUP1)				Source: 2111102-01		Prepared & Analyzed: 11/10/21				
Boron	ND	0.0100	mg/L		ND				20	
Matrix Spike (BEK0221-MS1)				Source: 2111102-01		Prepared & Analyzed: 11/10/21				
Boron	3.90	0.0100	mg/L	5.00	ND	78.0	75-125			
Matrix Spike Dup (BEK0221-MSD1)				Source: 2111102-01		Prepared & Analyzed: 11/10/21				
Boron	4.26	0.0100	mg/L	5.00	ND	85.2	75-125	8.88	25	

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 8000 W 44th Ave
 Wheat Ridge CO, 80033

Project: Rory I
 Project Number: [none]
 Project Manager: Martin Eckert III

Reported:
 01/21/22 10:05

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction - Quality Control
Summit Scientific

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

Batch BEK0340 - General Preparation

Blank (BEK0340-BLK1)

Prepared: 11/15/21 Analyzed: 11/22/21

Calcium	ND	0.0500	mg/L wet							
Magnesium	ND	0.0500	"							
Sodium	ND	0.0500	"							

LCS (BEK0340-BS1)

Prepared: 11/15/21 Analyzed: 11/22/21

Calcium	6.15	0.0500	mg/L wet	5.00	123	70-130				
Magnesium	5.99	0.0500	"	5.00	120	70-130				
Sodium	5.81	0.0500	"	5.00	116	70-130				

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Eagle Environmental Consulting
 8000 W 44th Ave
 Wheat Ridge CO, 80033

Project: Rory 1

Project Number: [none]
 Project Manager: Martin Eckert III

Reported:
 01/21/22 10:05

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control

Summit Scientific

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

Batch BEK0284 - General Preparation

Duplicate (BEK0284-DUP1)		Source: 2111146-01			Prepared & Analyzed: 11/12/21			
% Solids	93.9		%		95.7		1.92	20

Summit Scientific

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Eagle Environmental Consulting
 8000 W 44th Ave
 Wheat Ridge CO, 80033

Project: Rory 1
 Project Number: [none]
 Project Manager: Martin Eckert III

Reported:
 01/21/22 10:05

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction - Quality Control

Summit Scientific

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

Batch BEK0381 - General Preparation

Blank (BEK0381-BLK1)

Prepared & Analyzed: 11/17/21

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BEK0381-BS1)

Prepared & Analyzed: 11/17/21

Specific Conductance (EC) 0.154 0.0100 mmhos/cm 0.150 103 95-105

Duplicate (BEK0381-DUP1)

Source: 2111137-01

Prepared & Analyzed: 11/17/21

Specific Conductance (EC) 0.236 0.0100 mmhos/cm 0.244 3.30 20

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Eagle Environmental Consulting
 8000 W 44th Ave
 Wheat Ridge CO, 80033

Project: Rory 1

Project Number: [none]
 Project Manager: Martin Eckert III

Reported:
 01/21/22 10:05

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction - Quality Control

Summit Scientific

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

Batch BEK0243 - General Preparation

LCS (BEK0243-BS1)										
					Prepared & Analyzed: 11/10/21					
pH	9.08		pH Units	9.18	98.9	95-105				
Duplicate (BEK0243-DUP1)										
					Source: 2110396-07					
					Prepared & Analyzed: 11/10/21					
pH	8.25		pH Units	8.26	0.121	20				

Batch BEL0098 - General Preparation

LCS (BEL0098-BS1)										
					Prepared & Analyzed: 12/06/21					
pH	9.10		pH Units	9.18	99.1	95-105				
Duplicate (BEL0098-DUP1)										
					Source: 2111146-03					
					Prepared & Analyzed: 12/06/21					
pH	7.84		pH Units	7.86	0.255	20				

Summit Scientific

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Eagle Environmental Consulting
8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Rory 1
Project Number: [none]
Project Manager: Martin Eckert III

Reported:
01/21/22 10:05

Notes and Definitions

I-04 Sample was analyzed out of recommended holding time per clients request.

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

RPD Relative Percent Difference

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

December 05, 2021

Martin Eckert III
Eagle Environmental Consulting
8000 W 44th Ave
Wheat Ridge, CO 80033

RE: Rory 1

Work Order #2112053

Enclosed are the results of analyses for samples received by Summit Scientific on 12/03/21 15:14. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Paul Shrewsbury
President



Eagle Environmental Consulting
8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Rory 1
Project Number: [none]
Project Manager: Martin Eckert III

Reported:
12/05/21 19:50

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL01@4'	2112053-01	Soil	12/03/21 12:32	12/03/21 15:14
FL02@4'	2112053-02	Soil	12/03/21 12:50	12/03/21 15:14

Summit Scientific

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Summit Scientific

S₂

2112053

4653 Table Mountain Drive ♦ Golden, Colorado 80403
303-277-9310

Page 1 of 1

Client: Eagle Environmental
Address: 8000 W 44th Ave
City/State/Zip: Wheat Ridge CO
Phone: 303 433 0479
Sampler Name: KF

Project Manager: Martin Eckert III
E-Mail: mce3@eagle-enviro.com
Project Name: Rory 1
Project Number: -

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested						Special Instructions		
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX, N, THBs	TPH (C6-C16)							
1	FL0204'	12/3/21	1232	2			X			X				X	X						
2	FL0204'	↓	1250	↓			X			X				X	X						
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					

Relinquished by: [Signature] Date/Time: 12/3/21 1514

Relinquished by: _____ Date/Time: _____

Relinquished by: _____ Date/Time: _____

Received by: _____ Date/Time: _____

Received by: [Signature] 12/3/21 1514

Received by: _____ Date/Time: _____

Turn Around Time (Check)

Same Day X 72 hours _____

24 hours _____ Standard _____

48 hours _____

Sample Integrity: _____

Temperature Upon Receipt: 5.2

Samples Intact: Yes No

Notes: Bill to Eagle

S₂

Sample Receipt Checklist

S2 Work Order# 2112053

Client: Eagle Environmental Client Project ID: Rory 1

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other _____ Airbill #: _____

Matrix (check all that apply): Air Soil/Solid Water Other: _____
(Describe)

Temp (°C) 5.2

Thermometer ID: G86A9201901378

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C ⁽¹⁾ ? NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<i>On ice.</i>
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If custody seals are present, are they intact ⁽¹⁾ ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples with holding times due within 48 hours sample due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<i>Same day.</i>
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ? Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ? Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Additional Comments (if any):

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.

JB
Custodian Printed Name or Initials

12/3/21
Date/Time



Eagle Environmental Consulting
8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Rory I
Project Number: [none]
Project Manager: Martin Eckert III

Reported:
12/05/21 19:50

FL01@4'
2112053-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/03/21 12:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BEL0073	12/03/21	12/04/21	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **12/03/21 12:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		108 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		108 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		112 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/03/21 12:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BEL0074	12/03/21	12/03/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **12/03/21 12:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		98.2 %	30-150		"	"	"	"	

Summit Scientific

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Eagle Environmental Consulting
8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Rory I
Project Number: [none]
Project Manager: Martin Eckert III

Reported:
12/05/21 19:50

FL02@4'
2112053-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/03/21 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BEL0073	12/03/21	12/04/21	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **12/03/21 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		111 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		110 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		112 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/03/21 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BEL0074	12/03/21	12/03/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **12/03/21 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		73.6 %	30-150		"	"	"	"	

Summit Scientific

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Eagle Environmental Consulting
8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Rory I

Project Number: [none]
Project Manager: Martin Eckert III

Reported:
12/05/21 19:50

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BEL0073 - EPA 5030 Soil MS

Blank (BEL0073-BLK1)

Prepared: 12/03/21 Analyzed: 12/04/21

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0449		"	0.0400		112	23-173			
<i>Surrogate: Toluene-d8</i>	0.0449		"	0.0400		112	20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0440		"	0.0400		110	21-167			

LCS (BEL0073-BS1)

Prepared: 12/03/21 Analyzed: 12/04/21

Benzene	0.107	0.0020	mg/kg	0.100		107	70-130			
Toluene	0.108	0.0050	"	0.100		108	70-130			
Ethylbenzene	0.0938	0.0050	"	0.100		93.8	70-130			
m,p-Xylene	0.191	0.010	"	0.200		95.5	70-130			
o-Xylene	0.0993	0.0050	"	0.100		99.3	70-130			
1,2,4-Trimethylbenzene	0.0986	0.0050	"	0.100		98.6	70-130			
1,3,5-Trimethylbenzene	0.0922	0.0050	"	0.100		92.2	70-130			
Naphthalene	0.0812	0.0038	"	0.100		81.2	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0464		"	0.0400		116	23-173			
<i>Surrogate: Toluene-d8</i>	0.0434		"	0.0400		109	20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0419		"	0.0400		105	21-167			

Matrix Spike (BEL0073-MS1)

Source: 2112052-01

Prepared: 12/03/21 Analyzed: 12/04/21

Benzene	0.0979	0.0020	mg/kg	0.100	ND	97.9	70-130			
Toluene	0.100	0.0050	"	0.100	ND	100	70-130			
Ethylbenzene	0.0840	0.0050	"	0.100	ND	84.0	70-130			
m,p-Xylene	0.169	0.010	"	0.200	ND	84.3	70-130			
o-Xylene	0.0877	0.0050	"	0.100	ND	87.7	70-130			
1,2,4-Trimethylbenzene	0.0822	0.0050	"	0.100	ND	82.2	70-130			
1,3,5-Trimethylbenzene	0.0775	0.0050	"	0.100	ND	77.5	70-130			
Naphthalene	0.0820	0.0038	"	0.100	ND	82.0	50-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0458		"	0.0400		114	23-173			
<i>Surrogate: Toluene-d8</i>	0.0429		"	0.0400		107	20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0427		"	0.0400		107	21-167			

Summit Scientific

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.



Eagle Environmental Consulting
 8000 W 44th Ave
 Wheat Ridge CO, 80033

Project: Rory I
 Project Number: [none]
 Project Manager: Martin Eckert III

Reported:
 12/05/21 19:50

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BEL0073 - EPA 5030 Soil MS

Matrix Spike Dup (BEL0073-MSD1)	Source: 2112052-01			Prepared: 12/03/21 Analyzed: 12/04/21						
Benzene	0.0981	0.0020	mg/kg	0.100	ND	98.1	70-130	0.214	30	
Toluene	0.0993	0.0050	"	0.100	ND	99.3	70-130	1.11	30	
Ethylbenzene	0.0811	0.0050	"	0.100	ND	81.1	70-130	3.53	30	
m,p-Xylene	0.166	0.010	"	0.200	ND	82.8	70-130	1.78	30	
o-Xylene	0.0852	0.0050	"	0.100	ND	85.2	70-130	2.81	30	
1,2,4-Trimethylbenzene	0.0790	0.0050	"	0.100	ND	79.0	70-130	4.02	30	
1,3,5-Trimethylbenzene	0.0776	0.0050	"	0.100	ND	77.6	70-130	0.116	30	
Naphthalene	0.0799	0.0038	"	0.100	ND	79.9	50-130	2.56	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0469</i>		<i>"</i>	<i>0.0400</i>		<i>117</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0438</i>		<i>"</i>	<i>0.0400</i>		<i>110</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0430</i>		<i>"</i>	<i>0.0400</i>		<i>107</i>	<i>21-167</i>			

Summit Scientific

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Eagle Environmental Consulting
 8000 W 44th Ave
 Wheat Ridge CO, 80033

Project: Rory I
 Project Number: [none]
 Project Manager: Martin Eckert III

Reported:
 12/05/21 19:50

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BEL0074 - EPA 3550A

Blank (BEL0074-BLK1)

Prepared: 12/03/21 Analyzed: 12/04/21

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							

LCS (BEL0074-BS1)

Prepared: 12/03/21 Analyzed: 12/04/21

C10-C28 (DRO)	492	50	mg/kg	500	17.1	95.2	70-130			
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Matrix Spike (BEL0074-MS1)

Source: 2112052-01

Prepared: 12/03/21 Analyzed: 12/04/21

C10-C28 (DRO)	493	50	mg/kg	500	17.1	95.2	70-130			
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Matrix Spike Dup (BEL0074-MSD1)

Source: 2112052-01

Prepared: 12/03/21 Analyzed: 12/04/21

C10-C28 (DRO)	497	50	mg/kg	500	17.1	96.1	70-130	0.903	20	
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Summit Scientific

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Eagle Environmental Consulting
8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Rory 1
Project Number: [none]
Project Manager: Martin Eckert III

Reported:
12/05/21 19:50

Notes and Definitions

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
RPD Relative Percent Difference