

# Summit Scientific

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4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

June 09, 2020

Heather Shideman

Extraction Oil&Gas

370 17th Street Suite 5300

Denver, CO 80202

RE: Trip\_Blank/GWA\_Coyote\_Trails

Work Order #2005303

Enclosed are the results of analyses for samples received by Summit Scientific on 05/28/20 10:10. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Muri Premier", is displayed on a light purple rectangular background.

Muri Premier For Paul Shrewsbury

President



Extraction Oil&Gas  
370 17th Street Suite 5300  
Denver CO, 80202

Project: Trip\_Blank/GWA\_Coyote\_Trails  
Project Number: AFE #17031 Code 961.15  
Project Manager: Heather Shideman

**Reported:**  
06/09/20 10:16

**ANALYTICAL REPORT FOR SAMPLES**



Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BW_Front_Range_Landfill_Surface_Water_SW_Trip	2005303-01	Water	05/28/20 08:57	05/28/20 10:10

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S<sub>2</sub>

Page 1 of 1

ID	Field ID / Point of Collection	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested						Special Instructions
					HCl	HNO3	None	Other (Specify)	Surface Water	Soil	Air-Canister #	Other (Specify)	BTEX						
1	BW_Front_Range_Landfill_Surface_Water_SW_Trip_Blank	05/28/20	0537	1					X					X					Sample Frequency: Q2
Relinquished by:		Date/Time:		Received by:		Date/Time:		Turn Around Time		(Check)		Notes:							
		05/28/2020/ 10:10				05-28-20 10:10		Same Day		72 hours									
Relinquished by:		Date/Time:		Received by:		Date/Time:		24 hours		X Standard									
								48 hours											
Relinquished by:		Date/Time:		Received by:		Date/Time:		Sample Integrity:		7.1		ON ICE							
								Temperature Upon Receipt:											
								Intact:		Yes		No							

# Sample Receipt Checklist

S2 Work Order **2005303**

Client: **APEX COMPANIES**

Client Project ID: **TRIP BLANK COYOTE TRAILS**

Shipped Via: ☒ H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: \_\_\_\_\_

Matrix (check all that apply): ☒ Air ☐ Soil/Solid ☒ Water ☐ Other: \_\_\_\_\_  
(Describe)

Temp (°C)	7.1
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Thermometer ID: 61857155-K

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

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

Custodian Printed Name or Initials

Signature of Custodian

Date/Time

05/29/2020



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**BW\_Front\_Range\_Landfill\_Surface\_Water\_SW\_Trip\_Blank**  
**2005303-01 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **05/28/20 08:57**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	1.0	ug/l	1	2006004	06/01/20	06/02/20	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
m,p-Xylene	ND	2.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **05/28/20 08:57**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		125 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		93.5 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		109 %	21-167		"	"	"	"	

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## Volatile Organic Compounds by EPA Method 8260B - Quality Control

### Summit Scientific

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

#### Batch 2006004 - EPA 5030 Water MS

##### Blank (2006004-BLK1)

Prepared & Analyzed: 06/01/20

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
m,p-Xylene	ND	2.0	"							
o-Xylene	ND	1.0	"							
Xylenes (total)	ND	2.0	"							
Surrogate: 1,2-Dichloroethane-d4	15.3		"	13.3		115	23-173			
Surrogate: Toluene-d8	11.8		"	13.3		88.9	20-170			
Surrogate: 4-Bromofluorobenzene	14.2		"	13.3		107	21-167			

##### LCS (2006004-BS1)

Prepared & Analyzed: 06/01/20

Benzene	45.0	1.0	ug/l	41.7		108	51-132			
Toluene	40.2	1.0	"	41.7		96.6	51-138			
Ethylbenzene	46.7	1.0	"	41.7		112	58-146			
m,p-Xylene	82.4	2.0	"	83.3		98.9	57-144			
o-Xylene	41.8	1.0	"	41.7		100	53-146			
Surrogate: 1,2-Dichloroethane-d4	13.8		"	13.3		104	23-173			
Surrogate: Toluene-d8	12.9		"	13.3		96.7	20-170			
Surrogate: 4-Bromofluorobenzene	13.2		"	13.3		99.0	21-167			

##### Matrix Spike (2006004-MS1)

Source: 2005282-01

Prepared & Analyzed: 06/01/20

Benzene	46.5	1.0	ug/l	41.7	ND	112	34-141			
Toluene	43.4	1.0	"	41.7	ND	104	27-151			
Ethylbenzene	48.8	1.0	"	41.7	ND	117	29-160			
m,p-Xylene	85.5	2.0	"	83.3	ND	103	20-166			
o-Xylene	43.6	1.0	"	41.7	ND	105	33-159			
Surrogate: 1,2-Dichloroethane-d4	14.5		"	13.3		109	23-173			
Surrogate: Toluene-d8	12.6		"	13.3		94.6	20-170			
Surrogate: 4-Bromofluorobenzene	13.1		"	13.3		98.2	21-167			

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

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

**Batch 2006004 - EPA 5030 Water MS**

Matrix Spike Dup (2006004-MSD1)	Source: 2005282-01			Prepared & Analyzed: 06/01/20						
Benzene	49.9	1.0	ug/l	41.7	ND	120	34-141	7.08	32	
Toluene	46.0	1.0	"	41.7	ND	111	27-151	5.95	25	
Ethylbenzene	51.7	1.0	"	41.7	ND	124	29-160	5.83	50	
m,p-Xylene	90.2	2.0	"	83.3	ND	108	20-166	5.41	36	
o-Xylene	46.2	1.0	"	41.7	ND	111	33-159	5.90	26	
Surrogate: 1,2-Dichloroethane-d4	14.9		"	13.3		112	23-173			
Surrogate: Toluene-d8	12.7		"	13.3		95.6	20-170			
Surrogate: 4-Bromofluorobenzene	13.5		"	13.3		101	21-167			

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### 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