

# Summit Scientific

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4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

August 12, 2020

Maggie Graham

Apex Companies

176 Cole Blvd. Suite 250

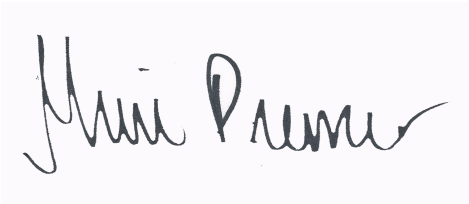
Lakewood, CO 80101

RE: CPR - Allan H Unit

Work Order # 2008038

Enclosed are the results of analyses for samples received by Summit Scientific on 08/05/20 14:47. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, reading "Muri Premier". The signature is written in a cursive, flowing style. The first name "Muri" is written with a large, stylized 'M' and 'u'. The last name "Premier" is written with a large, stylized 'P' and 'r'. The signature is set against a light purple rectangular background.

Muri Premier For Paul Shrewsbury

President



Apex Companies  
176 Cole Blvd. Suite 250  
Lakewood CO, 80101

Project: CPR - Allan H Unit  
Project Number: 125.2001.01-336138  
Project Manager: Maggie Graham

**Reported:**  
08/12/20 16:24

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B01@4	2008038-01	Soil	08/05/20 11:32	08/05/20 14:47
S01@2	2008038-04	Soil	08/05/20 11:37	08/05/20 14:47

Summit Scientific

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# Summit Scientific

2008038

4653 Table Mountain Drive ♦ Golden, Colorado 80403  
303-277-9310 ♦ 303-374-5933 Fax

Page 1 of 1

Client: APEX Companies, LLC

Address: 1746 Cole Blvd. Suite 250

City/State/Zip: Lakewood, Colorado 80101

Phone: 720-501-5065

Sampler Name: Sage Maher

Project Manager: Maggie Graham 720-501-5065; 907-538-7699c MaggieGraham@ApexCos.com

E-Mail: DenverRemediation@ApexCos.com Schuyler.hamilton@crestonePR.com

Project Name: Allan H Unit

Project Number: 125,2001.01-330138

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative				Matrix		Analyze For:							Special Instructions	
				HCl	HNO <sub>3</sub>	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	GBTEX	TPH-DRO	pH	EC	SAR		HAUT
B01@2	1132	8/5/20	1			X			X									Call Maggie Graham with questions
N01@2	1134	↓	↓														X	
N01@2	1135	↓	↓														X	
S01@2	1137	↓	↓														X	
E01@2	1139	↓	↓														X	
C01	1140	↓	↓														X	
Relinquished by: <u>[Signature]</u> Date/Time: <u>8/5/20</u>				Received by: <u>[Signature]</u> Date/Time: <u>8-5-20 2:47</u>				<b>Turn Around Time (Check)</b> Same Day <input type="checkbox"/> 72 Hours <input type="checkbox"/> 24 Hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/> 48 Hours <input type="checkbox"/>										<b>Notes</b>  Circle applicable regulatory agency: <u>COGCC</u> CDPHE  Client Name: <u>CPR</u>
Relinquished by: _____ Date/Time: _____				Received by: _____ Date/Time: _____				<b>Sample Integrity:</b> Temperature Upon Receipt: <u>10-1</u> Intact: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>										
Relinquished by: _____ Date/Time: _____				Received in Lab by: _____ Date/Time: _____														

# Sample Receipt Checklist

S2 Work Order 2008038

Client: Apex- CPR Client Project ID: Allan H Unit

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>10.1</u>
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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"/>			
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
If custody seals are present, are they intact <sup>(1)</sup> ?			<input checked="" type="checkbox"/>	
Are samples with holding times due within 48 hours sample due within 48 hours present?			<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client w/ date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling) <sup>(1)</sup> ?			<input checked="" type="checkbox"/>	
Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, ect				
If samples are acid preserved for metals, is the pH ≤ 2 <sup>(1)</sup> ?			<input checked="" type="checkbox"/>	
Record the pH in Comments.				
If dissolved metals are requested, were samples field filtered?			<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.

CS  
Custodian Printed Name or Initials

[Signature]  
Signature of Custodian

8-5-20 14:47  
Date/Time



Apex Companies  
176 Cole Blvd. Suite 250  
Lakewood CO, 80101

Project: CPR - Allan H Unit  
Project Number: 125.2001.01-336138  
Project Manager: Maggie Graham

**Reported:**  
08/12/20 16:24

**B01@4**  
**2008038-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/05/20 11:32**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	2008067	08/07/20	08/08/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **08/05/20 11:32**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		98.9 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		102 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/05/20 11:32**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	2008068	08/07/20	08/08/20	EPA 8015M	

Date Sampled: **08/05/20 11:32**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl		105 %	30-150		"	"	"	"	

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Project: CPR - Allan H Unit  
Project Number: 125.2001.01-336138  
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**Reported:**  
08/12/20 16:24

**S01@2**  
**2008038-04 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/05/20 11:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	2008067	08/07/20	08/08/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **08/05/20 11:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		102 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		103 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/05/20 11:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2008068	08/07/20	08/08/20	EPA 8015M	

Date Sampled: **08/05/20 11:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		103 %	30-150		"	"	"	"	

**Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis**

Date Sampled: **08/05/20 11:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	<b>5910</b>	11.6	mg/kg dry	1	2008072	08/07/20	08/07/20	EPA 6020B	
Magnesium	<b>917</b>	5.82	"	"	"	"	"	"	
Sodium	<b>80.6</b>	5.82	"	"	"	"	"	"	

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**Reported:**  
08/12/20 16:24

**S01@2**  
**2008038-04 (Soil)**

**Summit Scientific**

**Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis**

**Calculated Analysis**

Date Sampled: **08/05/20 11:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.258	0.100	units	1	2008105	08/12/20	08/12/20	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **08/05/20 11:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.9		%	1	2008047	08/06/20	08/06/20	Calculation	
pH	8.65		pH Units	"	2008049	08/06/20	08/06/20	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **08/05/20 11:37**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.522	0.0100	mmhos/cm	1	2008048	08/06/20	08/06/20	EPA 120.1	

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**Reported:**  
08/12/20 16:24

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

### Summit Scientific

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

#### Batch 2008067 - EPA 5030 Soil MS

##### Blank (2008067-BLK1)

Prepared & Analyzed: 08/07/20

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0370		"	0.0400		92.6	23-173			
Surrogate: Toluene-d8	0.0360		"	0.0400		90.1	20-170			
Surrogate: 4-Bromofluorobenzene	0.0411		"	0.0400		103	21-167			

##### LCS (2008067-BS1)

Prepared & Analyzed: 08/07/20

Benzene	0.0983	0.0020	mg/kg	0.100		98.3	70-130			
Toluene	0.0849	0.0050	"	0.100		84.9	70-130			
Ethylbenzene	0.104	0.0050	"	0.100		104	70-130			
m,p-Xylene	0.177	0.010	"	0.200		88.5	70-130			
o-Xylene	0.0924	0.0050	"	0.100		92.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0385		"	0.0400		96.2	23-173			
Surrogate: Toluene-d8	0.0368		"	0.0400		92.0	20-170			
Surrogate: 4-Bromofluorobenzene	0.0405		"	0.0400		101	21-167			

##### Matrix Spike (2008067-MS1)

Source: 2008029-01

Prepared & Analyzed: 08/07/20

Benzene	0.0998	0.0020	mg/kg	0.100	ND	99.8	70-130			
Toluene	0.0863	0.0050	"	0.100	ND	86.3	70-130			
Ethylbenzene	0.107	0.0050	"	0.100	ND	107	70-130			
m,p-Xylene	0.182	0.010	"	0.200	ND	90.9	70-130			
o-Xylene	0.0950	0.0050	"	0.100	ND	95.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0380		"	0.0400		95.0	23-173			
Surrogate: Toluene-d8	0.0370		"	0.0400		92.6	20-170			
Surrogate: 4-Bromofluorobenzene	0.0403		"	0.0400		101	21-167			

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**Reported:**  
08/12/20 16:24

**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 2008067 - EPA 5030 Soil MS**

Matrix Spike Dup (2008067-MSD1)		Source: 2008029-01			Prepared & Analyzed: 08/07/20					
Benzene	0.0954	0.0020	mg/kg	0.100	ND	95.4	70-130	4.49	30	
Toluene	0.0946	0.0050	"	0.100	ND	94.6	70-130	9.15	30	
Ethylbenzene	0.102	0.0050	"	0.100	ND	102	70-130	5.13	30	
m,p-Xylene	0.174	0.010	"	0.200	ND	87.0	70-130	4.40	30	
o-Xylene	0.0914	0.0050	"	0.100	ND	91.4	70-130	3.77	30	
Surrogate: 1,2-Dichloroethane-d4	0.0396		"	0.0400		99.1	23-173			
Surrogate: Toluene-d8	0.0409		"	0.0400		102	20-170			
Surrogate: 4-Bromofluorobenzene	0.0401		"	0.0400		100	21-167			

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**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

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

**Batch 2008068 - EPA 3550A**

**Blank (2008068-BLK1)**

Prepared & Analyzed: 08/07/20

C10-C28 (DRO) ND 50 mg/kg

**LCS (2008068-BS1)**

Prepared & Analyzed: 08/07/20

C10-C28 (DRO) 473 50 mg/kg 500 94.6 70-130

**Matrix Spike (2008068-MS1)**

**Source: 2008029-01**

Prepared & Analyzed: 08/07/20

C10-C28 (DRO) 466 50 mg/kg 500 23.4 88.6 70-130

**Matrix Spike Dup (2008068-MSD1)**

**Source: 2008029-01**

Prepared & Analyzed: 08/07/20

C10-C28 (DRO) 435 50 mg/kg 500 23.4 82.4 70-130 6.90 20

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Project: CPR - Allan H Unit  
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08/12/20 16:24

## Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis - Quality Control

### Summit Scientific

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

#### Batch 2008072 - General Preparation

##### Blank (2008072-BLK1)

Prepared & Analyzed: 08/07/20

Calcium	ND	10.0	mg/kg wet
Magnesium	ND	5.00	"
Sodium	ND	5.00	"

##### LCS (2008072-BS1)

Prepared & Analyzed: 08/07/20

Calcium	532	10.0	mg/kg wet	500	106	70-130
Magnesium	596	5.00	"	500	119	70-130
Sodium	544	5.00	"	500	109	70-130

##### Duplicate (2008072-DUP1)

Source: 2008032-01

Prepared & Analyzed: 08/07/20

Calcium	269	11.9	mg/kg dry	273	1.55	20
Magnesium	257	5.93	"	236	8.41	20
Sodium	53.3	5.93	"	64.0	18.2	20

##### Matrix Spike (2008072-MS1)

Source: 2008032-01

Prepared & Analyzed: 08/07/20

Calcium	789	11.9	mg/kg dry	593	273	87.0	70-130
Magnesium	819	5.93	"	593	236	98.4	70-130
Sodium	653	5.93	"	593	64.0	99.2	70-130

##### Matrix Spike Dup (2008072-MSD1)

Source: 2008032-01

Prepared & Analyzed: 08/07/20

Calcium	814	11.9	mg/kg dry	593	273	91.2	70-130	3.11	25
Magnesium	928	5.93	"	593	236	117	70-130	12.4	25
Sodium	692	5.93	"	593	64.0	106	70-130	5.84	25

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08/12/20 16:24

**Physical Parameters by APHA/ASTM/EPA Methods - Quality Control**  
**Summit Scientific**

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

**Batch 2008047 - General Preparation**

<b>Duplicate (2008047-DUP1)</b>		<b>Source: 2008038-04</b>			Prepared & Analyzed: 08/06/20					
% Solids	85.7		%		85.9			0.233	20	

**Batch 2008049 - General Preparation**

<b>LCS (2008049-BS1)</b>		Prepared & Analyzed: 08/06/20								
pH	9.21		pH Units	9.18		100	95-105			
<b>Duplicate (2008049-DUP1)</b>		<b>Source: 2008038-04</b>			Prepared & Analyzed: 08/06/20					
pH	8.64		pH Units		8.65			0.116	20	

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**Reported:**  
08/12/20 16:24

**Specific Conductance by EPA Method 120.1 - Quality Control**  
**Summit Scientific**

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

**Batch 2008048 - General Preparation**

**Blank (2008048-BLK1)**

Prepared & Analyzed: 08/06/20

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (2008048-BS1)**

Prepared & Analyzed: 08/06/20

Specific Conductance (EC) 0.784 0.0100 mmhos/cm 0.750 105 90-110

**Duplicate (2008048-DUP1)**

**Source: 2008038-04**

Prepared & Analyzed: 08/06/20

Specific Conductance (EC) 0.518 0.0100 mmhos/cm 0.522 0.769 20

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Project: CPR - Allan H Unit  
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Project Manager: Maggie Graham

**Reported:**  
08/12/20 16:24

### 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