

# Summit Scientific

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741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

April 23, 2018

Susana Lara-Mesa  
K.P. Kauffman  
1675 Broadway  
Denver, CO 80202  
RE: State Header

Enclosed are the results of analyses for samples received by Summit Scientific on 04/16/18 14:44. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'P. Shrewsbury', with a stylized, cursive script.

Paul Shrewsbury For Ben Shrewsbury  
President / Laboratory Director



K.P. Kauffman  
1675 Broadway  
Denver CO, 80202

Project: State Header  
Project Number: [none]  
Project Manager: Susana Lara-Mesa

**Reported:**  
04/23/18 07:23

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
1 - SW Wall	1804243-01	Soil	04/16/18 10:00	04/16/18 14:44
2 - EN Wall	1804243-02	Soil	04/16/18 10:00	04/16/18 14:44
3 - SE Bottom	1804243-03	Soil	04/16/18 10:05	04/16/18 14:44
4 - NE Wall	1804243-04	Soil	04/16/18 10:05	04/16/18 14:44
5 - WN Wall	1804243-05	Soil	04/16/18 10:10	04/16/18 14:44
6 - SE Wall	1804243-06	Soil	04/16/18 10:10	04/16/18 14:44
7 - NW Bottom	1804243-07	Soil	04/16/18 10:15	04/16/18 14:44
8 - ES Wall	1804243-08	Soil	04/16/18 10:15	04/16/18 14:44
9 - WS Wall	1804243-09	Soil	04/16/18 10:20	04/16/18 14:44
10 - NW Wall	1804243-10	Soil	04/16/18 10:20	04/16/18 14:44

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

1804243

741 Corporate Circle Suite I ♦ Golden, Colorado 80401  
303-277-9310 ♦ 303-374-5933 Fax

Page 1 of 1

Client: KP Kauffman  
Address: 1675 Broadway  
City/State/Zip: Denver, CO 80202  
Phone: 303-825-4822 Fax: 303-825-4825  
Sampler Name: Susana Lara-Mesa

Project Manager: Susana Lara-Mesa  
E-Mail: slaramesa@kpk.com  
Project Name: State Header  
Project Number:

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)	BTEX	TPH-DRO	TPH-GRO	TPH-ORO								
1 - SW Wall	4/16/2018	10:00	2						x				x	x	x	x							
2 - EN Wall	4/16/2018	10:00	2						x				x	x	x	x							
3 - SE Bottom	4/16/2018	10:05	2						x				x	x	x	x							
4 - NE Wall	4/16/2018	10:05	2						x				x	x	x	x							
5 - WN Wall	4/16/2018	10:10	2						x				x	x	x	x							
6 - SE Wall	4/16/2018	10:10	2						x				x	x	x	x							
7 - NW Bottom	4/16/2018	10:15	2						x				x	x	x	x							
8 - ES Wall	4/16/2018	10:15	2						x				x	x	x	x							
9 - WS Wall	4/16/2018	10:20	2						x				x	x	x	x							
10 - NW Wall	4/16/2018	10:20	2						x				x	x	x	x							

Relinquished by: *N. Letsey*

Relinquished by: \_\_\_\_\_

Relinquished by: \_\_\_\_\_

Date/Time: 4/16/18 2:44pm

Date/Time: \_\_\_\_\_

Date/Time: \_\_\_\_\_

Received by: *MD*

Received by: \_\_\_\_\_

Received in Lab by: \_\_\_\_\_

Date/Time: 4/16/18 1444

Date/Time: \_\_\_\_\_

Date/Time: \_\_\_\_\_

**Turn Around Time (Check)**

Same Day ☐ 72 Hours ☐

24 Hours ☐ Standard ☒

48 Hours ☐

**Sample Integrity:**

Temperature Upon Receipt: 9.1°C

Intact: ☒ Yes ☐ No

Notes:

on ice

# Sample Receipt Checklist

S2 Work Order: 1804243

Client: KP Kauffman

Client Project ID: State Header

Shipped Via: P/U

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Airbill #: \_\_\_\_\_

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

Cooler ID					
Temp (°C)	9.1				

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> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
NOTE: If samples are delivered the same day of sampling, this requirement is met provided that there is evidence that cooling has begun.				
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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are short holding time analytes or samples with HTs 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 <sup>(1)</sup> ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	missing some info into CTA and some analyses) awaiting response.
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 type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling) <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.

Nak42  
Custodian Printed Name

[Signature]  
Signature or Initials of Custodian

4/16/18 1500  
Date/Time



K.P. Kauffman  
1675 Broadway  
Denver CO, 80202

Project: State Header

Project Number: [none]  
Project Manager: Susana Lara-Mesa

**Reported:**  
04/23/18 07:23

**1 - SW Wall**  
**1804243-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **04/16/18 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1804131	04/17/18	04/18/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/16/18 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		89.1 %	70-130		"	"	"	"	
Surrogate: Toluene-d8		104 %	70-130		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		84.1 %	70-130		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/16/18 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1804130	04/17/18	04/20/18	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/16/18 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		98.0 %	30-150		"	"	"	"	

Summit Scientific

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K.P. Kauffman  
1675 Broadway  
Denver CO, 80202

Project: State Header  
Project Number: [none]  
Project Manager: Susana Lara-Mesa

Reported:  
04/23/18 07:23

**2 - EN Wall**  
**1804243-02 (Soil)**

**Summit Scientific**

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

Date Sampled: **04/16/18 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1804131	04/17/18	04/18/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/16/18 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		89.3 %	70-130		"	"	"	"	
Surrogate: Toluene-d8		104 %	70-130		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		86.0 %	70-130		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/16/18 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1804130	04/17/18	04/20/18	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/16/18 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		95.3 %	30-150		"	"	"	"	

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K.P. Kauffman  
1675 Broadway  
Denver CO, 80202

Project: State Header  
Project Number: [none]  
Project Manager: Susana Lara-Mesa

Reported:  
04/23/18 07:23

**3 - SE Bottom**  
**1804243-03 (Soil)**

**Summit Scientific**

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

Date Sampled: **04/16/18 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1804131	04/17/18	04/18/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/16/18 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		92.3 %	70-130		"	"	"	"	
Surrogate: Toluene-d8		106 %	70-130		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		86.0 %	70-130		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/16/18 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1804130	04/17/18	04/20/18	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/16/18 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		95.4 %	30-150		"	"	"	"	

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K.P. Kauffman  
1675 Broadway  
Denver CO, 80202

Project: State Header  
Project Number: [none]  
Project Manager: Susana Lara-Mesa

Reported:  
04/23/18 07:23

**4 - NE Wall**  
**1804243-04 (Soil)**

**Summit Scientific**

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

Date Sampled: **04/16/18 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1804131	04/17/18	04/18/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>0.73</b>	<b>0.50</b>	"	"	"	"	"	"	

Date Sampled: **04/16/18 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		92.0 %	70-130		"	"	"	"	
Surrogate: Toluene-d8		106 %	70-130		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.7 %	70-130		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/16/18 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>C10-C28 (DRO)</b>	<b>200</b>	50	mg/kg	1	1804130	04/17/18	04/20/18	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/16/18 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		97.7 %	30-150		"	"	"	"	

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K.P. Kauffman  
1675 Broadway  
Denver CO, 80202

Project: State Header  
Project Number: [none]  
Project Manager: Susana Lara-Mesa

Reported:  
04/23/18 07:23

**5 - WN Wall**  
**1804243-05 (Soil)**

**Summit Scientific**

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

Date Sampled: **04/16/18 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1804131	04/17/18	04/18/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/16/18 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		91.7 %	70-130		"	"	"	"	
Surrogate: Toluene-d8		105 %	70-130		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		87.2 %	70-130		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/16/18 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1804130	04/17/18	04/20/18	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/16/18 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		92.0 %	30-150		"	"	"	"	

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K.P. Kauffman  
1675 Broadway  
Denver CO, 80202

Project: State Header  
Project Number: [none]  
Project Manager: Susana Lara-Mesa

Reported:  
04/23/18 07:23

**6 - SE Wall**  
**1804243-06 (Soil)**

**Summit Scientific**

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

Date Sampled: **04/16/18 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1804131	04/17/18	04/18/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/16/18 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		90.8 %	70-130		"	"	"	"	
Surrogate: Toluene-d8		104 %	70-130		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		85.7 %	70-130		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/16/18 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	52	50	mg/kg	1	1804130	04/17/18	04/20/18	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/16/18 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		96.6 %	30-150		"	"	"	"	

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K.P. Kauffman  
1675 Broadway  
Denver CO, 80202

Project: State Header  
Project Number: [none]  
Project Manager: Susana Lara-Mesa

Reported:  
04/23/18 07:23

**7 - NW Bottom**  
**1804243-07 (Soil)**

**Summit Scientific**

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

Date Sampled: **04/16/18 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1804131	04/17/18	04/18/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/16/18 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		95.2 %	70-130		"	"	"	"	
Surrogate: Toluene-d8		106 %	70-130		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		89.6 %	70-130		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/16/18 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1804130	04/17/18	04/20/18	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/16/18 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		95.3 %	30-150		"	"	"	"	

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K.P. Kauffman  
1675 Broadway  
Denver CO, 80202

Project: State Header  
Project Number: [none]  
Project Manager: Susana Lara-Mesa

Reported:  
04/23/18 07:23

**8 - ES Wall**  
**1804243-08 (Soil)**

**Summit Scientific**

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

Date Sampled: **04/16/18 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1804131	04/17/18	04/18/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/16/18 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		91.3 %	70-130		"	"	"	"	
Surrogate: Toluene-d8		104 %	70-130		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		84.2 %	70-130		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/16/18 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1804130	04/17/18	04/20/18	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/16/18 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		94.0 %	30-150		"	"	"	"	

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K.P. Kauffman  
1675 Broadway  
Denver CO, 80202

Project: State Header  
Project Number: [none]  
Project Manager: Susana Lara-Mesa

Reported:  
04/23/18 07:23

**9 - WS Wall**  
**1804243-09 (Soil)**

**Summit Scientific**

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

Date Sampled: **04/16/18 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1804131	04/17/18	04/18/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/16/18 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		91.4 %	70-130		"	"	"	"	
Surrogate: Toluene-d8		105 %	70-130		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		85.8 %	70-130		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/16/18 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1804130	04/17/18	04/20/18	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/16/18 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		91.5 %	30-150		"	"	"	"	

Summit Scientific

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K.P. Kauffman  
1675 Broadway  
Denver CO, 80202

Project: State Header  
Project Number: [none]  
Project Manager: Susana Lara-Mesa

Reported:  
04/23/18 07:23

**10 - NW Wall**  
**1804243-10 (Soil)**

**Summit Scientific**

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

Date Sampled: **04/16/18 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1804131	04/17/18	04/18/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>2.7</b>	<b>0.50</b>	<b>"</b>	<b>"</b>	<b>"</b>	<b>"</b>	<b>"</b>	<b>"</b>	

Date Sampled: **04/16/18 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		90.3 %	70-130		"	"	"	"	
Surrogate: Toluene-d8		104 %	70-130		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.2 %	70-130		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/16/18 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>C10-C28 (DRO)</b>	<b>400</b>	<b>50</b>	<b>mg/kg</b>	<b>1</b>	<b>1804130</b>	<b>04/17/18</b>	<b>04/20/18</b>	<b>EPA 8015M</b>	
<b>C28-C36 (ORO)</b>	<b>73</b>	<b>50</b>	<b>"</b>	<b>"</b>	<b>"</b>	<b>"</b>	<b>"</b>	<b>"</b>	

Date Sampled: **04/16/18 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		99.9 %	30-150		"	"	"	"	

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Project: State Header  
Project Number: [none]  
Project Manager: Susana Lara-Mesa

**Reported:**  
04/23/18 07:23

## 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 1804131 - EPA 5030 Soil MS

##### Blank (1804131-BLK1)

Prepared & Analyzed: 04/17/18

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.0050	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0389		"	0.0396	98.3	70-130				
Surrogate: Toluene-d8	0.0420		"	0.0400	105	70-130				
Surrogate: 4-Bromofluorobenzene	0.0344		"	0.0400	86.1	70-130				

##### LCS (1804131-BS1)

Prepared & Analyzed: 04/17/18

Benzene	0.0843	0.0020	mg/kg	0.100	84.3	70-130				
Toluene	0.0898	0.0050	"	0.100	89.8	70-130				
Ethylbenzene	0.102	0.0050	"	0.100	102	70-130				
m,p-Xylene	0.202	0.010	"	0.200	101	70-130				
o-Xylene	0.0981	0.0050	"	0.100	98.1	70-130				
Gasoline Range Hydrocarbons	2.06	0.50	"			0-200				
Surrogate: 1,2-Dichloroethane-d4	0.0343		"	0.0396	86.7	70-130				
Surrogate: Toluene-d8	0.0419		"	0.0400	105	70-130				
Surrogate: 4-Bromofluorobenzene	0.0338		"	0.0400	84.6	70-130				

##### Matrix Spike (1804131-MS1)

Source: 1804207-01

Prepared & Analyzed: 04/17/18

Benzene	0.0741	0.0020	mg/kg	0.100	ND	74.1	70-130			
Toluene	0.0752	0.0050	"	0.100	ND	75.2	70-130			
Ethylbenzene	0.0769	0.0050	"	0.100	ND	76.9	70-130			
m,p-Xylene	0.149	0.010	"	0.200	ND	74.4	70-130			
o-Xylene	0.0735	0.0050	"	0.100	ND	73.5	70-130			
Gasoline Range Hydrocarbons	1.62	0.50	"		0.0335		0-200			
Surrogate: 1,2-Dichloroethane-d4	0.0360		"	0.0396	90.8	70-130				
Surrogate: Toluene-d8	0.0420		"	0.0400	105	70-130				
Surrogate: 4-Bromofluorobenzene	0.0336		"	0.0400	84.0	70-130				

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1675 Broadway  
Denver CO, 80202

Project: State Header  
Project Number: [none]  
Project Manager: Susana Lara-Mesa

**Reported:**  
04/23/18 07:23

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

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

**Batch 1804130 - EPA 3550A**

**Blank (1804130-BLK1)**

Prepared: 04/17/18 Analyzed: 04/20/18

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

**LCS (1804130-BS1)**

Prepared: 04/17/18 Analyzed: 04/20/18

C10-C28 (DRO)	461	50	mg/kg	500	92.3	81.4-129
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**Matrix Spike (1804130-MS1)**

**Source: 1804207-01**

Prepared: 04/17/18 Analyzed: 04/20/18

C10-C28 (DRO)	581	50	mg/kg	500	151	86.0	77.8-133
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**Matrix Spike Dup (1804130-MSD1)**

**Source: 1804207-01**

Prepared: 04/17/18 Analyzed: 04/20/18

C10-C28 (DRO)	568	50	mg/kg	500	151	83.3	77.8-133	2.36	8.48
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Summit Scientific

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K.P. Kauffman  
1675 Broadway  
Denver CO, 80202

Project: State Header

Project Number: [none]  
Project Manager: Susana Lara-Mesa

**Reported:**  
04/23/18 07:23

### 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