

# Summit Scientific

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741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

July 10, 2016

Colby Sterling

Talon/LPE

1811 E Mulberry

Ft Collins, CO 80524

RE: Memorial FTC Tank Battery

Enclosed are the results of analyses for samples received by Summit Scientific on 06/30/16 15:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Paul Shrewsbury

President



Talon/LPE  
1811 E Mulberry  
Ft Collins CO, 80524

Project: Memorial FTC Tank Battery

Project Number: 701959.001.09  
Project Manager: Colby Sterling

**Reported:**  
07/10/16 20:53

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B1	1607008-01	Soil	06/30/16 09:55	06/30/16 15:15
B2	1607008-02	Soil	06/30/16 10:00	06/30/16 15:15
B3	1607008-03	Soil	06/30/16 10:05	06/30/16 15:15
B4	1607008-04	Soil	06/30/16 10:10	06/30/16 15:15
B5	1607008-05	Soil	06/30/16 10:15	06/30/16 15:15
B6	1607008-06	Soil	06/30/16 10:20	06/30/16 15:15

Summit Scientific

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Talon/LPE  
1811 E Mulberry  
Ft Collins CO, 80524

Project: Memorial FTC Tank Battery

Project Number: 701959.001.09  
Project Manager: Colby Sterling

Reported:  
07/10/16 20:53

# Summit Scientific 1607008

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

Page 1 of 1

Client: Talon/LPE	Project Manager: Colby Sterling
Address: 1811 East Mulberry	E-Mail: csterling@talonlpe.com
City/State/Zip: Fort Collins, CO 80524	Project Name: Memorial - FTC Battery
Phone: 970-818-5330 Fax:	Project Number: 701959.001.09
Sampler Name: Colby Sterling	

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)	DRO				
B1	6/30/2016	955	1		x				x							
B2	6/30/2016	1000	1		x				x							
B3	6/30/2016	1005	1		x				x							
B4	6/30/2016	1010	1		x				x							
B5	6/30/2016	1015	1		x				x							
B6	6/30/2016	1020	1		x				x							

  

Relinquished by:	Date/Time: 6-30-16 15:15	Received by:	Date/Time: 6-30-16 15:15	Turn Around Time (Check) 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"/>	Notes:
Relinquished by:	Date/Time: 6-30-16 19:10	Received by:	Date/Time:		
Relinquished by:	Date/Time:	Received in Lab by:	Date/Time:		

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Talon/LPE  
1811 E Mulberry  
Ft Collins CO, 80524

Project: Memorial FTC Tank Battery

Project Number: 701959.001.09  
Project Manager: Colby Sterling

Reported:  
07/10/16 20:53

Sample Receipt Checklist

S2 Work Order: 1607008

Client: Talon

Client Project ID: Memorial FTC Battery

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)	<u>15.7</u>				

Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature just above 0°C to ≤ 6°C <sup>(1)</sup> ?			<input checked="" type="checkbox"/>	
NOTE: If samples are delivered the same day of sampling, this requirement is waived provided that there is evidence that cooling has begun.				
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 short holding time analytes or samples with HTs 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? <b>if yes, contact client and note in narrative.</b>			<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.				

Muri Premer  
Custodian Printed Name

CS 6-30-16  
Signature or Initials of Custodian

11:20  
Date/Time



Talon/LPE  
1811 E Mulberry  
Ft Collins CO, 80524

Project: Memorial FTC Tank Battery

Project Number: 701959.001.09  
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**B1**  
**1607008-01 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **06/30/16 09:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>C10-C28 (DRO)</b>	<b>170</b>	50	mg/kg	1	1607066	07/07/16	07/07/16	8015M	

Date Sampled: **06/30/16 09:55**

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

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

Date Sampled: **06/30/16 09:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1607033	07/05/16	07/06/16	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	

Date Sampled: **06/30/16 09:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		92.4 %	23-173		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		97.0 %	20-170		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		94.2 %	21-167		"	"	"	"	

Summit Scientific

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Talon/LPE  
1811 E Mulberry  
Ft Collins CO, 80524

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Reported:  
07/10/16 20:53

**B2**  
**1607008-02 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **06/30/16 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	110	50	mg/kg	1	1607066	07/07/16	07/07/16	8015M	

Date Sampled: **06/30/16 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		84.5 %	30-150		"	"	"	"	

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

Date Sampled: **06/30/16 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1607033	07/05/16	07/06/16	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	

Date Sampled: **06/30/16 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		92.8 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		98.1 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.6 %	21-167		"	"	"	"	

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**B3**  
**1607008-03 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **06/30/16 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	380	50	mg/kg	1	1607066	07/07/16	07/07/16	8015M	

Date Sampled: **06/30/16 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		111 %	30-150		"	"	"	"	

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

Date Sampled: **06/30/16 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1607033	07/05/16	07/06/16	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	

Date Sampled: **06/30/16 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		94.9 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		98.6 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.4 %	21-167		"	"	"	"	

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07/10/16 20:53

**B4**  
**1607008-04 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **06/30/16 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	160	50	mg/kg	1	1607066	07/07/16	07/07/16	8015M	

Date Sampled: **06/30/16 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		81.8 %	30-150		"	"	"	"	

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

Date Sampled: **06/30/16 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1607033	07/05/16	07/06/16	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	

Date Sampled: **06/30/16 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		90.8 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		96.6 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.0 %	21-167		"	"	"	"	

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Reported:  
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**B5**  
**1607008-05 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **06/30/16 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	240	50	mg/kg	1	1607066	07/07/16	07/07/16	8015M	

Date Sampled: **06/30/16 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		110 %	30-150		"	"	"	"	

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

Date Sampled: **06/30/16 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1607033	07/05/16	07/06/16	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	

Date Sampled: **06/30/16 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		97.9 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		96.8 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.0 %	21-167		"	"	"	"	

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Ft Collins CO, 80524

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Reported:  
07/10/16 20:53

**B6**  
**1607008-06 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **06/30/16 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>C10-C28 (DRO)</b>	<b>340</b>	50	mg/kg	1	1607066	07/07/16	07/07/16	8015M	

Date Sampled: **06/30/16 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>		108 %	30-150		"	"	"	"	

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

Date Sampled: **06/30/16 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1607033	07/05/16	07/06/16	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	

Date Sampled: **06/30/16 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		95.3 %	23-173		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		96.8 %	20-170		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		93.5 %	21-167		"	"	"	"	

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Ft Collins CO, 80524

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07/10/16 20:53

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

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

**Batch 1607066 - EPA 3550A**

**Blank (1607066-BLK1)**

Prepared & Analyzed: 07/07/16

C10-C28 (DRO)	ND	50	mg/kg								
Surrogate: <i>o</i> -Terphenyl	12.4		"	12.5		99.4	30-150				

**LCS (1607066-BS1)**

Prepared & Analyzed: 07/07/16

C10-C28 (DRO)	436	50	mg/kg	499		87.5	73-134				
Surrogate: <i>o</i> -Terphenyl	14.8		"	12.5		118	30-150				

**Matrix Spike (1607066-MS1)**

Source: 1607008-01

Prepared & Analyzed: 07/07/16

C10-C28 (DRO)	879	50	mg/kg	499	168	142	50-148				
Surrogate: <i>o</i> -Terphenyl	18.2		"	12.5		146	30-150				

**Matrix Spike Dup (1607066-MSD1)**

Source: 1607008-01

Prepared & Analyzed: 07/07/16

C10-C28 (DRO)	588	50	mg/kg	499	168	84.2	50-148	39.6	20		QM-07
Surrogate: <i>o</i> -Terphenyl	14.0		"	12.5		112	30-150				

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Project: Memorial FTC Tank Battery

Project Number: 701959.001.09  
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Reported:  
07/10/16 20:53

**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 1607033 - EPA 5030 Soil MS**

**Blank (1607033-BLK1)**

Prepared & Analyzed: 07/05/16

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.0050	"							
Surrogate: 1,2-Dichloroethane-d4	0.0296		"	0.0400		74.1	23-173			
Surrogate: Toluene-d8	0.0393		"	0.0400		98.2	20-170			
Surrogate: 4-Bromofluorobenzene	0.0392		"	0.0400		98.1	21-167			

**LCS (1607033-BS1)**

Prepared & Analyzed: 07/05/16

Benzene	0.145	0.0020	mg/kg	0.150		96.6	58-130			
Toluene	0.141	0.0050	"	0.150		93.7	61-134			
Ethylbenzene	0.141	0.0050	"	0.150		93.9	74-139			
m,p-Xylene	0.282	0.010	"	0.300		94.1	73-137			
o-Xylene	0.145	0.0050	"	0.150		96.8	73-141			
Surrogate: 1,2-Dichloroethane-d4	0.0291		"	0.0400		72.8	23-173			
Surrogate: Toluene-d8	0.0409		"	0.0400		102	20-170			
Surrogate: 4-Bromofluorobenzene	0.0394		"	0.0400		98.6	21-167			

**Matrix Spike (1607033-MS1)**

Source: 1607019-03

Prepared & Analyzed: 07/05/16

Benzene	0.152	0.0020	mg/kg	0.150	ND	101	30-131			
Toluene	0.146	0.0050	"	0.150	ND	97.6	30-134			
Ethylbenzene	0.140	0.0050	"	0.150	ND	93.2	22-153			
m,p-Xylene	0.282	0.010	"	0.300	ND	93.9	10-159			
o-Xylene	0.145	0.0050	"	0.150	ND	96.4	31-151			
Surrogate: 1,2-Dichloroethane-d4	0.0305		"	0.0400		76.3	23-173			
Surrogate: Toluene-d8	0.0419		"	0.0400		105	20-170			
Surrogate: 4-Bromofluorobenzene	0.0396		"	0.0400		99.0	21-167			

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1811 E Mulberry  
Ft Collins CO, 80524

Project: Memorial FTC Tank Battery

Project Number: 701959.001.09  
Project Manager: Colby Sterling

Reported:  
07/10/16 20:53

**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 1607033 - EPA 5030 Soil MS**

<b>Matrix Spike Dup (1607033-MSD1)</b>	<b>Source: 1607019-03</b>			<b>Prepared &amp; Analyzed: 07/05/16</b>						
Benzene	0.141	0.0020	mg/kg	0.150	ND	93.9	30-131	7.50	34	
Toluene	0.136	0.0050	"	0.150	ND	90.6	30-134	7.48	30	
Ethylbenzene	0.132	0.0050	"	0.150	ND	87.8	22-153	6.01	24	
m,p-Xylene	0.267	0.010	"	0.300	ND	89.2	10-159	5.19	68	
o-Xylene	0.138	0.0050	"	0.150	ND	91.9	31-151	4.82	38	
Surrogate: 1,2-Dichloroethane-d4	0.0312		"	0.0400		78.1	23-173			
Surrogate: Toluene-d8	0.0414		"	0.0400		103	20-170			
Surrogate: 4-Bromofluorobenzene	0.0403		"	0.0400		101	21-167			

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Project Manager: Colby Sterling

**Reported:**  
07/10/16 20:53

### Notes and Definitions

- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
- 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

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