



December 13, 2016

Mr. Ward Giltner
Prospect Energy, LLC
1229 East Douglas Road
Fort Collins, Colorado 80524

**RE: Monitor Wells MW-9 & MW-9A
FTC Battery
Larimer County, Colorado
Project # 702108.001.04**

Mr. Giltner:

On November 2, 2016, Talon/LPE inspected monitoring well MW-9 following the recent crude oil release at the FTC Battery location (Site) in Larimer County, Colorado. The purpose of the inspection was to investigate if crude oil had impacted the monitoring well which had previously been damaged during construction activities at the Site. The Site is identified by the COGCC as Spill/Release Point IDs 448244, and furthermore as Form 27 Remediation Project Number 9188.

On November 2, 2016, Talon/LPE removed the vault lid on MW-9 and noticed small amounts of crude oil were present inside. The top of the well's casing was bent to a ninety (90) degree angle and the J-plug was not secured on the top of the casing. It appeared that trace amounts of crude oil had migrated down the well. After the initial inspection, Prospect Energy contractors utilized a backhoe to remove the well's vault and cement pad in order to gain access to the undamaged portion of the well's casing.

Upon gaining access to the well's casing, Talon/LPE purged the well until it became dry and collected a groundwater sample from MW-9 after the water level had recovered. Purge water was containerized onsite in a 55-gallon drum pending removal via vacuum truck. The collected sample was analyzed for benzene, toluene, ethyl-benzene, and xylenes (BTEX) via method EPA8260B at Summit Scientific (Summit) in Golden, Colorado. The sample was reported to exhibit a benzene concentration of 0.31 mg/L which is above the Colorado Oil and Gas Conservation Commission (COGCC) Table 910-1 threshold for benzene. Toluene, ethyl-benzene, and xylenes concentrations were reported to be below COGCC Table 910-1 levels. A general site plan is presented as Figure 1. A groundwater concentration map is



presented as Figure 2, and a breakdown of the groundwater analytical data is presented as Table 1.

Immediately after collecting the sample from MW-9, Talon/LPE plugged and abandoned the well by filling the casing with bentonite hole plug to approximately two (2) feet below ground surface (bgs). Cement was then poured in and above the casing up to approximately six (6) inches bgs. The remaining space was backfilled with clean, native soil.

Based on the analytical data collected from MW-9, Talon/LPE oversaw Drilling Engineers install a replacement monitoring well (MW-9A) on December 1, 2016. MW-9A was installed approximately five (5) feet south of MW-9 to a total depth of thirty (30) feet bgs. One (1) soil sample was collected from the boring at the groundwater interface. The soil sample, MW-9A 15-20', was submitted for analysis of Total Petroleum Hydrocarbons (TPH) via Gasoline Range Organics (GRO) method EPA8260B and Diesel Range Organics (DRO) method 8015, and for BTEX at Summit. Both TPH and BTEX results were reported to be below laboratory detection limits.

On December 2, 2016, Talon/LPE developed MW-9A by purging the well of five (5) casing volumes of groundwater. Following water level recovery, a sample was collected and analyzed for BTEX at Summit. Benzene, ethyl-benzene, and xylenes concentrations were reported to be below laboratory detection limits. Toluene was detected in the sample but was below COGCC Table 910-1 concentration levels.

More details documenting the plugging and abandonment of MW-9 as well as the installation of MW-9A will be presented in the Fourth Quarter Groundwater Monitoring Report once survey data is received. Talon/LPE will continue quarterly groundwater monitoring at the Site and the next sampling event is anticipated to be performed in January 2017. If you have any questions or comments, please do not hesitate to call me at (970) 818-5330.

Respectfully Submitted,

Colby Sterling
District Manager
Talon/LPE



Table 1 - Water Analytical Data

**Prospect Energy
FTC Battery
Larimer County, Colorado**

Sample ID	Lab ID	Date Sampled	Concentration (mg/L)			
			Benzene	Toluene	Ethyl-Benzene	Xylenes
COGCC Table 910-1 Concentration Levels			0.005	1	0.7	10
MW-9	1611015-01	11/02/16	0.31	0.86	0.22	1.1
MW-9A	1612018-01	12/02/16	<0.001	0.0011	<0.001	<0.001

mg/kg - milligrams per kilogram

< - Analytical result is less than the reporting limit

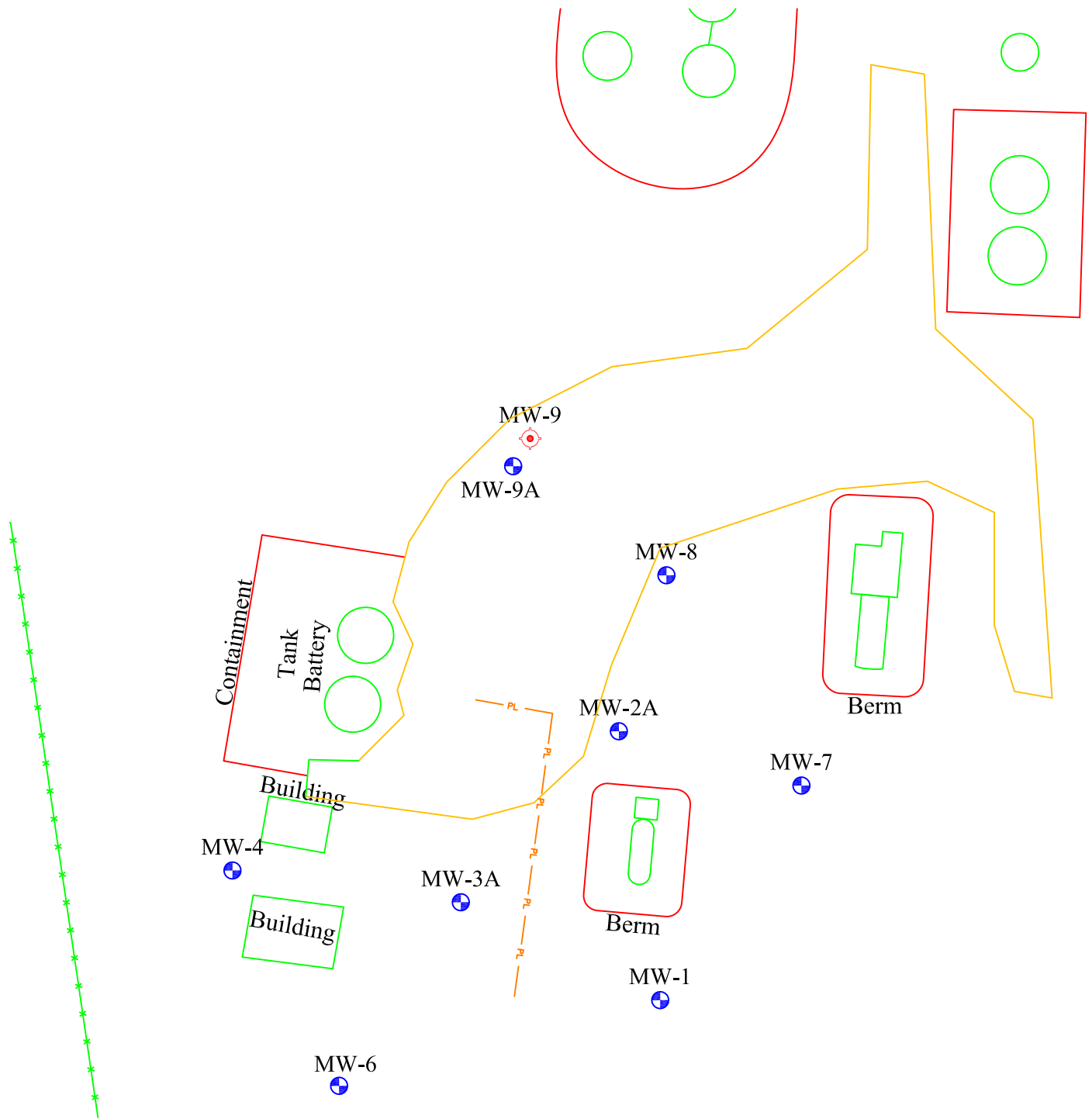
COGCC - Colorado Oil and Gas Conservation Commission

GRO - Gasoline Range Organics

DRO - Diesel Range Organics

ORO - Oil Range Organics

TPH - Total Petroleum Hydrocarbons (Combined GRO/DRO)



Scale in Feet

Legend	
	- Monitor Well
	- Sample Location
	- Plugged & Abandoned Well
	- Fence line
	- Spill Path
	- Excavated Area

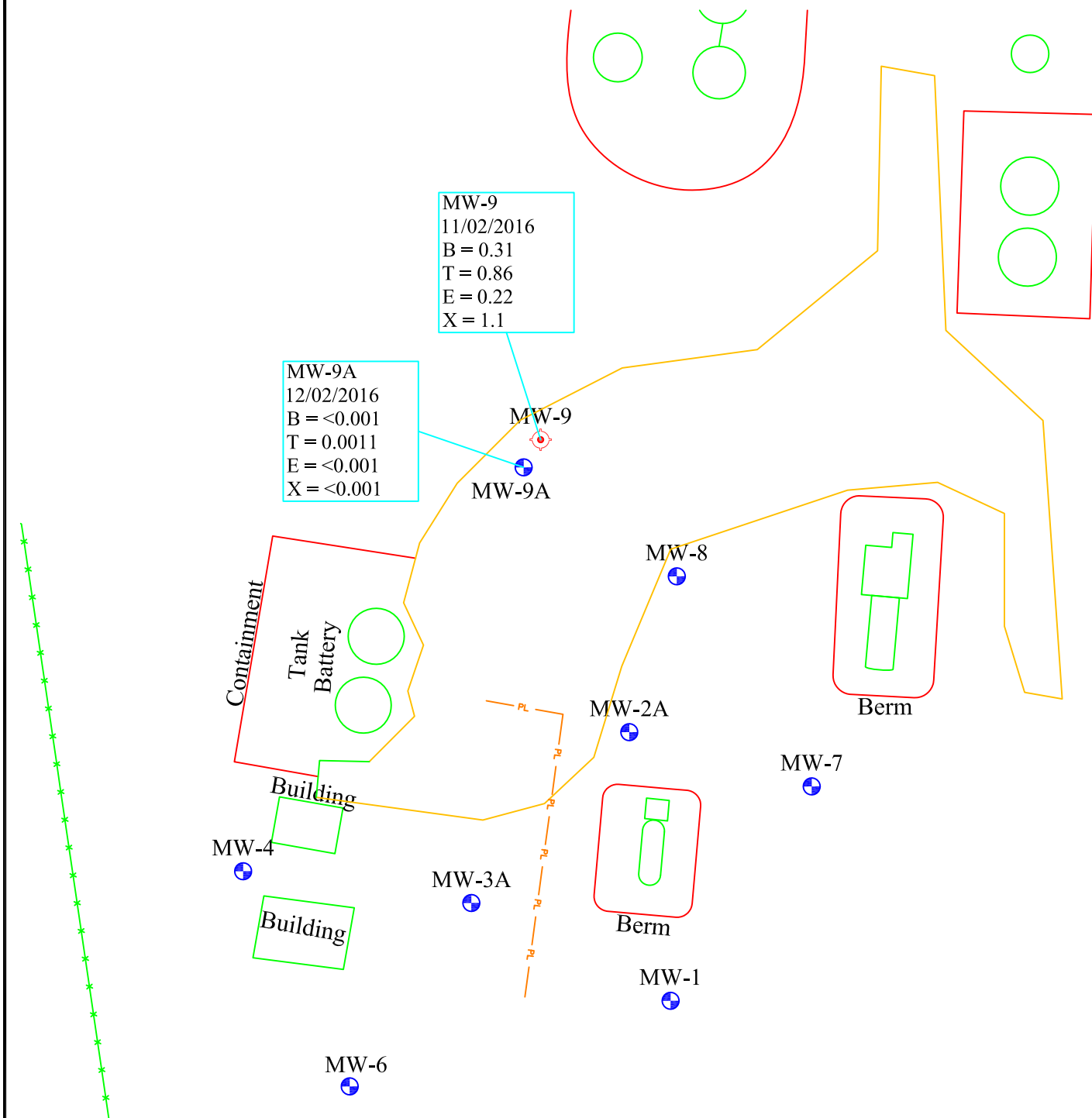


Date: 11/15/2016

Scale: 1" = 40'

Drawn By: TJS

FTC Battery
Prospect Energy
Larimer County, Colorado
Figure 1 - General Site Plan



0 20 40
Scale in Feet

Legend	
	- Monitor Well
	- Sample Location
	- Plugged & Abandoned Well
	- Fence line
	- Spill Path
	- Excavated Area
COGCC Levels (mg/L)	
B = 0.005	
T = 1	
E = 0.7	
X = 10	



Date: 11/15/2016

Scale: 1" = 40'

Drawn By: TJS

FTC Battery
Prospect Energy
Larimer County, Colorado
Figure 2 - Groundwater Concentration Map

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

November 08, 2016

Colby Sterling
Talon/LPE
1811 E Mulberry
Ft Collins, CO 80524
RE: FTC Battery

Enclosed are the results of analyses for samples received by Summit Scientific on 11/02/16 16:30. 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
President



Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: FTC Battery
Project Number: 702108.001.04
Project Manager: Colby Sterling

Reported:
11/08/16 08:55

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-9	1611015-01	Water	11/02/16 13:50	11/02/16 16:30

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.

A handwritten signature in black ink, appearing to be 'MSM'.

Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: FTC Battery

Project Number: 702108.001.04
Project Manager: Colby Sterling

Reported:
11/08/16 08:55

Summit Scientific

741 Corporate Circle Suite 1 • Golden, Colorado 80401
303-277-9310 • 303-374-5933 Fax

Page 1 of 1

Client: Talon/LPE

Address: 1811 East Mulberry

City/State/Zip: Fort Collins, CO 80525

Phone: 970-818-5330 Fax:

Sampler Name: Jennifer Galles / Colby Sterling

Project Manager: Colby Sterling

E-Mail: esterling@talonipe.com

Project Name:	FTC Battery
---------------	-------------

Project Name:	FTC Bakery
Project Number:	702108.001.04

[illegible]

www.s2scientific.com

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.





Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: FTC Battery
Project Number: 702108.001.04
Project Manager: Colby Sterling

Reported:
11/08/16 08:55

Sample Receipt Checklist

S2 Work Order: 1611015

Client: Talon Client Project ID: FTC Battery

Shipped Via: P.U. Airbill #: _____
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

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

Cooler ID					
Temp (°C)	<u>22.7</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 ⁽¹⁾ ?			<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 ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
If custody seals are present, are they intact ⁽¹⁾ ?			<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 ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ?	<input checked="" type="checkbox"/>			HCL preserved
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 ⁽¹⁾ ?			<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):				
⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.				

Murip
Custodian Printed Name

MA 11-2-16
Signature or Initials of Custodian

18:30
Date/Time



Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: FTC Battery
Project Number: 702108.001.04
Project Manager: Colby Sterling

Reported:
11/08/16 08:55

MW-9
1611015-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/02/16 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	310	100	ug/l	100	1611059	11/05/16	11/05/16	EPA 8260B	
Toluene	860	100	"	"	"	"	"	"	
Ethylbenzene	220	100	"	"	"	"	"	"	
Xylenes (total)	1100	100	"	"	"	"	"	"	

Date Sampled: **11/02/16 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		104 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		96.3 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.8 %	45-146		"	"	"	"	

Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: FTC Battery
Project Number: 702108.001.04
Project Manager: Colby Sterling

Reported:
11/08/16 08:55

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 1611059 - EPA 5030 Water MS

Blank (1611059-BLK1)

Prepared & Analyzed: 11/05/16

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	14.4		"	13.3		108	37-154			
Surrogate: Toluene-d8	12.7		"	13.3		95.5	45-149			
Surrogate: 4-Bromofluorobenzene	13.2		"	13.3		99.0	45-146			

LCS (1611059-BS1)

Prepared & Analyzed: 11/05/16

Benzene	39.0	1.0	ug/l	33.3		117	51-132			
Toluene	32.6	1.0	"	33.3		97.7	51-138			
Ethylbenzene	40.9	1.0	"	33.1		124	58-146			
m,p-Xylene	78.6	2.0	"	66.5		118	57-144			
o-Xylene	39.5	1.0	"	32.7		121	53-146			
Surrogate: 1,2-Dichloroethane-d4	14.5		"	13.3		109	37-154			
Surrogate: Toluene-d8	13.6		"	13.3		102	45-149			
Surrogate: 4-Bromofluorobenzene	13.0		"	13.3		97.7	45-146			

Matrix Spike (1611059-MS1)

Source: 1610255-06

Prepared & Analyzed: 11/05/16

Benzene	41.0	1.0	ug/l	33.3	ND	123	34-141			
Toluene	34.0	1.0	"	33.3	ND	102	27-151			
Ethylbenzene	44.4	1.0	"	33.1	ND	134	29-160			
m,p-Xylene	84.8	2.0	"	66.5	ND	127	20-166			
o-Xylene	42.8	1.0	"	32.7	ND	131	33-159			
Surrogate: 1,2-Dichloroethane-d4	15.6		"	13.3		117	37-154			
Surrogate: Toluene-d8	13.3		"	13.3		99.8	45-149			
Surrogate: 4-Bromofluorobenzene	13.3		"	13.3		99.7	45-146			

Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: FTC Battery
Project Number: 702108.001.04
Project Manager: Colby Sterling

Reported:
11/08/16 08:55

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 1611059 - EPA 5030 Water MS

Matrix Spike Dup (1611059-MSD1)		Source: 1610255-06			Prepared & Analyzed: 11/05/16					
Benzene	41.4	1.0	ug/l	33.3	ND	124	34-141	0.995	32	
Toluene	34.4	1.0	"	33.3	ND	103	27-151	1.23	25	
Ethylbenzene	44.8	1.0	"	33.1	ND	135	29-160	0.875	50	
m,p-Xylene	85.8	2.0	"	66.5	ND	129	20-166	1.17	36	
o-Xylene	43.2	1.0	"	32.7	ND	132	33-159	0.883	26	
Surrogate: 1,2-Dichloroethane-d4	15.6		"	13.3		117	37-154			
Surrogate: Toluene-d8	13.2		"	13.3		98.6	45-149			
Surrogate: 4-Bromofluorobenzene	13.4		"	13.3		100	45-146			

Summit Scientific

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Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

December 08, 2016

Jennifer Galles

Talon/LPE

1811 E Mulberry

Ft Collins, CO 80524

RE: Prospect Energy - FTC Battery

Enclosed are the results of analyses for samples received by Summit Scientific on 12/01/16 15:55. 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
President



Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Prospect Energy - FTC Battery
Project Number: 702108.001.02
Project Manager: Jennifer Galles

Reported:
12/08/16 12:13

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-9A 15-20'	1612009-01	Soil	12/01/16 09:52	12/01/16 15:55

Summit Scientific

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A handwritten signature in black ink, appearing to be 'MSM'.

Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Prospect Energy - FTC Battery

Project Number: 702108.001.02
Project Manager: Jennifer Galles

Reported:
12/08/16 12:13

Summit Scientific

16/2009

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303-277-9310 • 303-374-5933 Fax

Page 1 of 1

Client:	Talon/LPE
Address:	1811 East Mulberry
City/State/Zip:	Fort Collins, CO 80525
Phone:	970-818-5330
Sampler Name:	Jennifer Gales

Project Manager:	Jennifer Galle
E-Mail:	csterling@talonlpe.com - jgalle@talonlpe.com
Project Name:	Prospect Energy - FTC Battery
Project Number:	702108.001.02

[illegible]

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Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Prospect Energy - FTC Battery
Project Number: 702108.001.02
Project Manager: Jennifer Galles

Reported:
12/08/16 12:13

Sample Receipt Checklist

S2 Work Order: 1612009

Client: Talon Client Project ID: Prospect Energy - FTC Battery

Shipped Via: P.U. Airbill #: _____
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

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

Cooler ID					
Temp (°C)	<u>13.1</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 ⁽¹⁾ ?			<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 ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
If custody seals are present, are they intact ⁽¹⁾ ?			<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 ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	<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) ⁽¹⁾ ?			<input checked="" type="checkbox"/>	
Note the type of preservative in the Comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , ect				
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ?			<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):				
⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.				

Murip
Custodian Printed Name

12-1-16
Signature or Initials of Custodian

17:30
Date/Time



Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Prospect Energy - FTC Battery
Project Number: 702108.001.02
Project Manager: Jennifer Galles

Reported:
12/08/16 12:13

MW-9A 15-20'
1612009-01 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/01/16 09:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1612038	12/05/16	12/05/16	8015M	

Date Sampled: **12/01/16 09:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		97.5 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/01/16 09:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1612057	12/06/16	12/06/16	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **12/01/16 09:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		103 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		101 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	21-167		"	"	"	"	

Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Prospect Energy - FTC Battery
Project Number: 702108.001.02
Project Manager: Jennifer Galles

Reported:
12/08/16 12:13

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 1612038 - EPA 3550A

Blank (1612038-BLK1)

Prepared & Analyzed: 12/05/16

C10-C28 (DRO)	ND	50	mg/kg							
Surrogate: o-Terphenyl	12.0		"	12.5		95.7	30-150			

LCS (1612038-BS1)

Prepared & Analyzed: 12/05/16

C10-C28 (DRO)	452	50	mg/kg	499		90.6	73-134			
Surrogate: o-Terphenyl	14.9		"	12.5		119	30-150			

Matrix Spike (1612038-MS1)

Source: 1612009-01

Prepared & Analyzed: 12/05/16

C10-C28 (DRO)	465	50	mg/kg	499	14.3	90.3	50-148			
Surrogate: o-Terphenyl	15.3		"	12.5		122	30-150			

Matrix Spike Dup (1612038-MSD1)

Source: 1612009-01

Prepared & Analyzed: 12/05/16

C10-C28 (DRO)	500	50	mg/kg	499	14.3	97.4	50-148	7.28	20	
Surrogate: o-Terphenyl	15.1		"	12.5		121	30-150			

Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Prospect Energy - FTC Battery
Project Number: 702108.001.02
Project Manager: Jennifer Galles

Reported:
12/08/16 12:13

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 1612057 - EPA 5030 Soil MS

Blank (1612057-BLK1)

Prepared & Analyzed: 12/06/16

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	0.0406		"	0.0400		101	23-173			
Surrogate: Toluene-d8	0.0402		"	0.0400		100	20-170			
Surrogate: 4-Bromofluorobenzene	0.0425		"	0.0400		106	21-167			

LCS (1612057-BS1)

Prepared & Analyzed: 12/06/16

Benzene	0.114	0.0020	mg/kg	0.100		114	58-130			
Toluene	0.112	0.0050	"	0.100		112	61-134			
Ethylbenzene	0.113	0.0050	"	0.0992		114	74-139			
m,p-Xylene	0.219	0.010	"	0.200		110	73-137			
o-Xylene	0.113	0.0050	"	0.0980		116	73-141			
Xylenes (total)	0.332	0.0050	"				30-150			
Gasoline Range Hydrocarbons	1.93	0.50	"				30-150			
Surrogate: 1,2-Dichloroethane-d4	0.0390		"	0.0400		97.6	23-173			
Surrogate: Toluene-d8	0.0413		"	0.0400		103	20-170			
Surrogate: 4-Bromofluorobenzene	0.0420		"	0.0400		105	21-167			

Matrix Spike (1612057-MS1)

Source: 1612009-01

Prepared & Analyzed: 12/06/16

Benzene	0.108	0.0020	mg/kg	0.100	ND	108	30-131			
Toluene	0.105	0.0050	"	0.100	ND	105	30-134			
Ethylbenzene	0.102	0.0050	"	0.0992	ND	103	22-153			
m,p-Xylene	0.198	0.010	"	0.200	ND	99.2	10-159			
o-Xylene	0.103	0.0050	"	0.0980	ND	105	31-151			
Xylenes (total)	0.301	0.0050	"		ND		30-150			
Gasoline Range Hydrocarbons	1.74	0.50	"		ND		30-150			
Surrogate: 1,2-Dichloroethane-d4	0.0385		"	0.0400		96.3	23-173			
Surrogate: Toluene-d8	0.0406		"	0.0400		101	20-170			
Surrogate: 4-Bromofluorobenzene	0.0427		"	0.0400		107	21-167			

Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Prospect Energy - FTC Battery
Project Number: 702108.001.02
Project Manager: Jennifer Galles

Reported:
12/08/16 12:13

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 1612057 - EPA 5030 Soil MS

Matrix Spike Dup (1612057-MSD1)		Source: 1612009-01			Prepared & Analyzed: 12/06/16					
Benzene	0.102	0.0020	mg/kg	0.100	ND	102	30-131	5.67	34	
Toluene	0.0984	0.0050	"	0.100	ND	98.4	30-134	6.63	30	
Ethylbenzene	0.0967	0.0050	"	0.0992	ND	97.5	22-153	5.26	24	
m,p-Xylene	0.184	0.010	"	0.200	ND	92.3	10-159	7.14	68	
o-Xylene	0.0959	0.0050	"	0.0980	ND	97.9	31-151	7.41	38	
Xylenes (total)	0.280	0.0050	"		ND		30-150	7.23	20	
Gasoline Range Hydrocarbons	1.62	0.50	"		ND		30-150	6.95	20	
Surrogate: 1,2-Dichloroethane-d4	0.0376		"	0.0400		94.0	23-173			
Surrogate: Toluene-d8	0.0408		"	0.0400		102	20-170			
Surrogate: 4-Bromofluorobenzene	0.0407		"	0.0400		102	21-167			

Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Prospect Energy - FTC Battery

Project Number: 702108.001.02
Project Manager: Jennifer Galles

Reported:
12/08/16 12:13

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



Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: FTC Battery

Project Number: 702108.001.04
Project Manager: Colby Sterling

Reported:
11/08/16 08:55

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

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

December 08, 2016

Jennifer Galles

Talon/LPE

1811 E Mulberry

Ft Collins, CO 80524

RE: Prospect Energy - FTC Battery

Enclosed are the results of analyses for samples received by Summit Scientific on 12/02/16 13:00. 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
President



Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Prospect Energy - FTC Battery
Project Number: 702108.001.02
Project Manager: Jennifer Galles

Reported:
12/08/16 13:08

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-9A	1612018-01	Water	12/02/16 10:40	12/02/16 13:00

Summit Scientific

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A handwritten signature in black ink, appearing to be 'MSM'.

Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Prospect Energy - FTC Battery

Project Number: 702108.001.02
Project Manager: Jennifer Galles

Reported:
12/08/16 13:08

Summit Scientific

1612018

741 Corporate Circle Suite 1 • Golden, Colorado 80401
303-277-9310 • 303-374-5933 Fax

Page 1 of 1

Client:	Talon/LPE
Address:	1811 East Mulberry
City/State/Zip:	Fort Collins, CO 80525
Phone:	970-818-5330 Fax:
Sampler Name:	Jennifer Galles/Jason Leverton

Project Manager:	Jennifer Gales
E-Mail:	csterling@talonpe.com - jgales@talonpe.com
Project Name:	Prospect Energy - FTC Battery
Project Number:	702108.001.02

[illegible]

www.s2scientific.com

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.





Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Prospect Energy - FTC Battery
Project Number: 702108.001.02
Project Manager: Jennifer Galles

Reported:
12/08/16 13:08

Sample Receipt Checklist

S2 Work Order: 1612018

Client: Talon

Client Project ID: Prospect Energy -

Shipped Via: P.V.

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

Airbill #:

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

Cooler ID					
Temp (°C)	<u>14.6</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 ⁽¹⁾ ?			<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 ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
If custody seals are present, are they intact ⁽¹⁾ ?			<input checked="" type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present?	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	<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) ⁽¹⁾ ?			<input checked="" type="checkbox"/>	
Note the type of preservative in the Comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , ect				
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ?			<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):				
⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.				

Muri P.
Custodian Printed Name

MS 12-2-16
Signature or Initials of Custodian

16:08
Date/Time



Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Prospect Energy - FTC Battery
Project Number: 702108.001.02
Project Manager: Jennifer Galles

Reported:
12/08/16 13:08

MW-9A
1612018-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/02/16 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1612036	12/06/16	12/06/16	EPA 8260B	
Toluene	1.1	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **12/02/16 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		111 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		98.1 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.5 %	45-146		"	"	"	"	

Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Prospect Energy - FTC Battery
Project Number: 702108.001.02
Project Manager: Jennifer Galles

Reported:
12/08/16 13:08

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 1612036 - EPA 5030 Water MS

Blank (1612036-BLK1)

Prepared & Analyzed: 12/05/16

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	13.9		"	13.3	104	37-154				
Surrogate: Toluene-d8	13.3		"	13.3	99.6	45-149				
Surrogate: 4-Bromofluorobenzene	14.0		"	13.3	105	45-146				

LCS (1612036-BS1)

Prepared & Analyzed: 12/05/16

Benzene	44.3	1.0	ug/l	50.0	88.6	51-132				
Toluene	45.0	1.0	"	50.0	90.0	51-138				
Ethylbenzene	43.2	1.0	"	50.0	86.4	58-146				
m,p-Xylene	85.9	2.0	"	100	85.9	57-144				
o-Xylene	44.9	1.0	"	50.0	89.7	53-146				
Surrogate: 1,2-Dichloroethane-d4	13.5		"	13.3	101	37-154				
Surrogate: Toluene-d8	13.1		"	13.3	98.0	45-149				
Surrogate: 4-Bromofluorobenzene	13.1		"	13.3	98.3	45-146				

Matrix Spike (1612036-MS1)

Source: 1612021-01

Prepared & Analyzed: 12/05/16

Benzene	51.7	1.0	ug/l	50.0	ND	103	34-141			
Toluene	51.7	1.0	"	50.0	ND	103	27-151			
Ethylbenzene	51.6	1.0	"	50.0	ND	103	29-160			
m,p-Xylene	102	2.0	"	100	ND	102	20-166			
o-Xylene	52.2	1.0	"	50.0	ND	104	33-159			
Surrogate: 1,2-Dichloroethane-d4	12.6		"	13.3	94.5	37-154				
Surrogate: Toluene-d8	13.3		"	13.3	99.6	45-149				
Surrogate: 4-Bromofluorobenzene	13.2		"	13.3	99.1	45-146				

Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Prospect Energy - FTC Battery
Project Number: 702108.001.02
Project Manager: Jennifer Galles

Reported:
12/08/16 13:08

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 1612036 - EPA 5030 Water MS

Matrix Spike Dup (1612036-MSD1)	Source: 1612021-01			Prepared & Analyzed: 12/05/16						
Benzene	51.5	1.0	ug/l	50.0	ND	103	34-141	0.329	32	
Toluene	51.8	1.0	"	50.0	ND	104	27-151	0.0966	25	
Ethylbenzene	51.6	1.0	"	50.0	ND	103	29-160	0.0388	50	
m,p-Xylene	102	2.0	"	100	ND	102	20-166	0.137	36	
o-Xylene	52.1	1.0	"	50.0	ND	104	33-159	0.0192	26	
Surrogate: 1,2-Dichloroethane-d4	12.7		"	13.3		95.5	37-154			
Surrogate: Toluene-d8	13.3		"	13.3		99.9	45-149			
Surrogate: 4-Bromofluorobenzene	13.2		"	13.3		98.9	45-146			

Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Prospect Energy - FTC Battery

Project Number: 702108.001.02
Project Manager: Jennifer Galles

Reported:
12/08/16 13:08

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