



May 1, 2018

Mr. Kyle Waggoner
Whiting Oil and Gas Corporation
208 Racquette Drive
Fort Collins, Colorado 80524

**RE: Confirmation Sampling
Razor 25B
Weld County, Colorado
Project # 701530.107.02**

Mr. Waggoner:

On March 6, 2018, Talon/LPE conducted confirmation soil sampling at the Razor 25B (Site) in Weld County, Colorado. The purpose of the sampling event was to ensure that all hydrocarbon impacted soils had been removed to the extent required by the Colorado Oil and Gas Conservation Commission (COGCC) following cleanup activities of a produced water release. The Site is identified by the COGCC as Spill/Release Point IDs 453958.

On March 6, 2018, a total of 24 grab samples (SW-1 through SW-19, and BH-1 through BH-5) from depths from one (1) to six (6) feet below ground surface (ft bgs) were collected from the impacted area. A site map with the sample locations is presented in Figure 1.

The collected samples were analyzed for Total Petroleum Hydrocarbons (TPH) via Gasoline Range Organics (GRO) method EPA8260B and Diesel Range Organics (DRO) method 8015, for Benzene, Toluene, Ethyl-benzene, and Xylenes (BTEX) via method EPA8260B, and for inorganics (Electrical Conductivity (EC), Sodium Adsorption Ratio (SAR), and pH) via method USDA60 at Summit Scientific (Summit) in Golden, Colorado. Fourteen of the Analytical results for sidewall samples collected at one (1) and three (3) ft bgs exceeded COGCC 910-1 concentration levels for either EC, SAR or pH in samples SW-1, SW-2, SW-3, SW-4, SW-5, SW-6, SW-8, SW-9, SW-10, SW-12, SW-13, SW-14 and SW-19. Sample SW-7 exceeded COGCC 910-1 concentration levels for Benzene, TPH, EC and SAR. All inorganic concentrations levels in the samples collected at one (1) and three (3) ft bgs in SW-11, SW-15, SW-16, SW-17 and SW-18 were below COGCC 910-1 concentration levels. Analytical results for bottom-hole samples collected at two (2) and six (6) ft bgs exceeded



COGCC 910-1 concentration levels for either EC or SAR in samples BH-1, BH-2, BH-3, BH-4, and BH-5. A soil concentration map is presented in Figures 2, and a breakdown of the soil analytical data is presented in Table 1.

Based on the collected analytical data, further excavation was performed by Whiting contractors to a depth of one and-a-half (1.5), three (3) and six (6) ft bgs in the areas with inorganic exceedances of COGCC 910-1. On March 21, 2018, Talon/LPE personnel collected fourteen (14) grab samples (SW-2, SW-3, SW-5, SW-6, BH-7, BH-8, BH-9, and SS-1) and submitted them to Summit for analysis of TPH and BTEX as well as inorganics. Seven of the Analytical results for sidewall samples collected at zero (0), one and-a-half (1.5), three (3) and six (6) ft bgs exceeded COGCC 910-1 concentration levels for either EC, SAR or pH in samples SW-20, SW-24, SW-25, SW-29, BH-7, BH-9 and SS-1. All inorganic concentrations levels in the samples collected at one and-a-half (1.5), three (3) ft bgs in SW-21, SW-22, SW-23, SW-26, SW-27, SW-S8 and BH-8 were below COGCC 910-1 concentration levels.

Based on the collected analytical data, further excavation was performed by Whiting contractors to a depth of three (3) ft bgs in the areas with inorganic exceedances of COGCC 910-1. On April 4, 2018, Talon/LPE personnel collected ten (10) grab samples (SW-30, SW-31, SW-32, SW-33, SW-34, SW-35, SW-36, SW-37, SW-38, and SW-39) and submitted them to Summit for analysis of inorganics. Three of the Analytical results for sidewall samples collected at three (3) ft bgs exceeded COGCC 910-1 concentration levels for either EC, SAR or pH in samples SW-32, SW-35, and SW-36. All inorganic concentrations levels in the samples collected at three (3) ft bgs in SW-30, SW-31, SW-33, SW-34, SW-37, SW-38, and SW-39 were below COGCC 910-1 concentration levels.

Due to analytical results from samples collected at, or before, April 4, 2018 being under COGCC Table 910-1 thresholds with the exception of samples collected at three (3) ft bgs SW-32, SW-35, and SW-36, the excavation was delineated to the North, East, South and West of the release to a depth of three (3) ft below ground surface.

Following the excavations, Whiting contractors transported and disposed the excavated stockpile material at an approved landfill facility. Approximately 800 yd³ of clean soil will be brought in to the Site to backfill the excavated areas upon approval of this closure request.

Based upon the collected analytical data and that the remaining impacts above



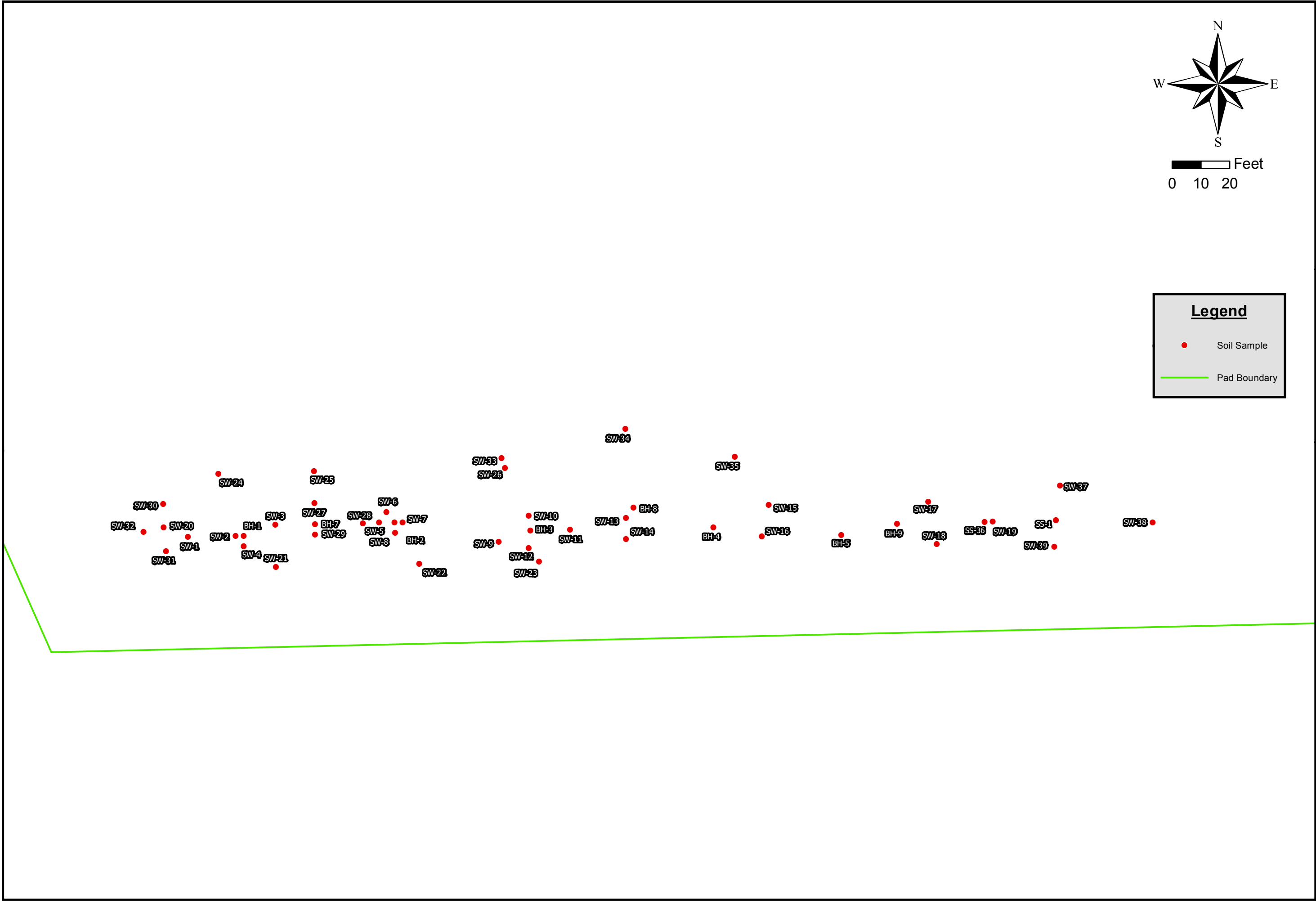
reclamation standards will be below three (3) ft bgs upon reclamation, Talon/LPE believes that no further corrective action is necessary and that Whiting can request conditional closure from the COGCC. If you have any questions or comments, please do not hesitate to call me at (970) 818-5330.


Respectfully Submitted,

A handwritten signature in black ink that reads "Jennifer Galles". The signature is written in a cursive, flowing style.

Jennifer Galles
District Manager
Talon/LPE

Attachment 1
Figures

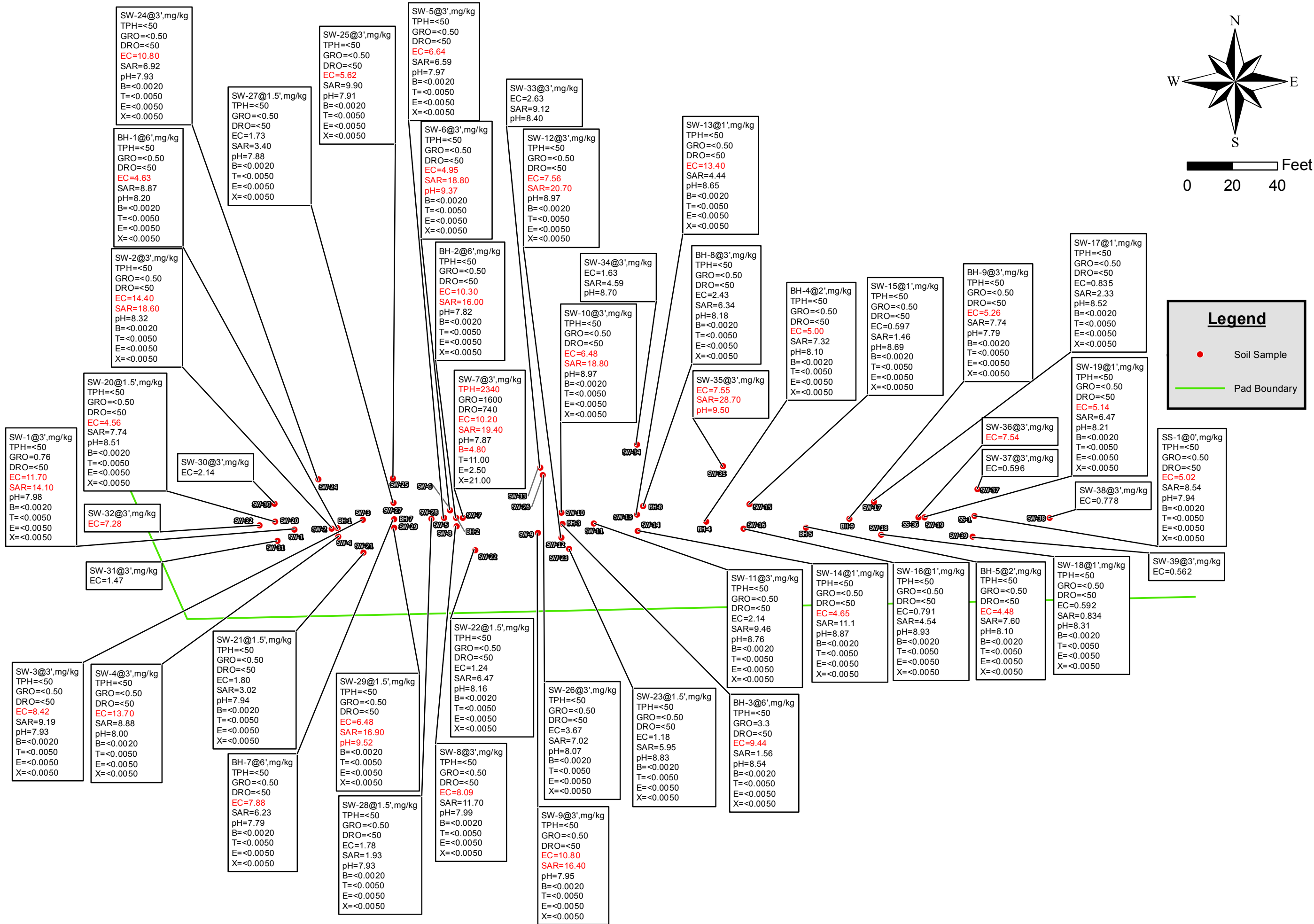





TALON LPE

Drafted: 5/10/2018
1 in = 30 ft
Drafted By: IJM

Whiting Oil & Gas Corporation
Razor 25B
Weld County, Colorado
Site Plan





Drafted: 5/10/2018
1 in = 40 ft
Drafted By: IJM

Whiting Oil & Gas Corporation
Razor 25B
Weld County, Colorado
Soil Concentration Map

Attachment 2 Tables



Table 1 - Soil Analytical Data

Whiting Oil & Gas Corporation
Razor 25B
Weld County, Colorado

Sample ID	Depth BGS in Feet	Date Sampled	Concentration (mg/kg)							mmhos/cm	Units	
			Benzene	Toluene	Ethylbenzene	Xylenes (Total)	GRO	DRO	TPH	EC	SAR	pH
COGCC Table 910-1 Concentration Levels			0.17	85	100	175	NA	NA	500	<4	<12	6-9
SW-1	3	3/6/2018	<0.0020	<0.0050	<0.0050	<0.0050	0.76	<50	<50	11.7	14.1	7.98
SW-2	3	3/6/2018	<0.0020	<0.0050	<0.0050	<0.0050	<0.50	<50	<50	14.4	18.6	8.32
SW-3	3	3/6/2018	<0.0020	<0.0050	<0.0050	<0.0050	<0.50	<50	<50	8.42	9.2	7.93
SW-4	3	3/6/2018	<0.0020	<0.0050	<0.0050	<0.0050	<0.50	<50	<50	13.7	8.9	8.00
SW-5	3	3/6/2018	<0.0020	<0.0050	<0.0050	<0.0050	<0.50	<50	<50	6.64	6.59	7.97
SW-6	3	3/6/2018	<0.0020	<0.0050	<0.0050	<0.0050	<0.50	<50	<50	4.95	18.8	9.37
SW-7	3	3/6/2018	4.8	11	2.5	21	1600	740	2340	10.2	19.4	7.87
SW-8	3	3/6/2018	<0.0020	<0.0050	<0.0050	<0.0050	<0.50	<50	<50	8.09	11.7	7.99
SW-9	3	3/6/2018	<0.0020	<0.0050	<0.0050	<0.0050	<0.50	<50	<50	10.8	16.40	7.95
SW-10	3	3/6/2018	<0.0020	<0.0050	<0.0050	<0.0050	<0.50	<50	<50	6.48	18.8	8.97
SW-11	3	3/6/2018	<0.0020	<0.0050	<0.0050	<0.0050	<0.50	<50	<50	2.14	9.46	8.76
SW-12	3	3/6/2018	<0.0020	<0.0050	<0.0050	<0.0050	<0.50	<50	<50	7.56	20.7	8.97
SW-13	1	3/6/2018	<0.0020	<0.0050	<0.0050	<0.0050	<0.50	<50	<50	13.4	4.4	8.65
SW-14	1	3/6/2018	<0.0020	<0.0050	<0.0050	<0.0050	<0.50	<50	<50	4.65	11.1	8.87
SW-15	1	3/6/2018	<0.0020	<0.0050	<0.0050	<0.0050	<0.50	<50	<50	0.597	1.46	8.69
SW-16	1	3/6/2018	<0.0020	<0.0050	<0.0050	<0.0050	<0.50	<50	<50	0.791	4.54	8.93
SW-17	1	3/6/2018	<0.0020	<0.0050	<0.0050	<0.0050	<0.50	<50	<50	0.835	2.33	8.52
SW-18	1	3/6/2018	<0.0020	<0.0050	<0.0050	<0.0050	<0.50	<50	<50	0.592	0.834	8.31
SW-19	1	3/6/2018	<0.0020	<0.0050	<0.0050	<0.0050	<0.50	<50	<50	5.14	6.47	8.21
SW-20	1.5	3/21/2018	<0.0020	<0.0050	<0.0050	<0.0050	<0.50	<50	<50	4.56	7.74	8.51
SW-21	1.5	3/21/2018	<0.0020	<0.0050	<0.0050	<0.0050	<0.50	<50	<50	1.80	3.02	7.94
SW-22	1.5	3/21/2018	<0.0020	<0.0050	<0.0050	<0.0050	<0.50	<50	<50	1.24	6.47	8.16
SW-23	1.5	3/21/2018	<0.0020	<0.0050	<0.0050	<0.0050	<0.50	<50	<50	1.18	5.95	8.83
SW-24	3	3/21/2018	<0.0020	<0.0050	<0.0050	<0.0050	<0.50	<50	<50	10.8	6.92	7.93
SW-25	3	3/21/2018	<0.0020	<0.0050	<0.0050	<0.0050	<0.50	<50	<50	5.62	9.90	7.91
SW-26	3	3/21/2018	<0.0020	<0.0050	<0.0050	<0.0050	<0.50	<50	<50	3.67	7.02	8.07
SW-27	1.5	3/21/2018	<0.0020	<0.0050	<0.0050	<0.0050	<0.50	<50	<50	1.73	3.40	7.88
SW-28	1.5	3/21/2018	<0.0020	<0.0050	<0.0050	<0.0050	<0.50	<50	<50	1.78	1.93	7.93
SW-29	1.5	3/21/2018	<0.0020	<0.0050	<0.0050	<0.0050	<0.50	<50	<50	6.48	16.90	9.52
SW-30	3	4/4/2018	NA	NA	NA	NA	NA	NA	NA	2.14	NA	NA
SW-31	3	4/4/2018	NA	NA	NA	NA	NA	NA	NA	1.47	NA	NA
SW-32	3	4/4/2018	NA	NA	NA	NA	NA	NA	NA	7.28	NA	NA
SW-33	3	4/4/2018	NA	NA	NA	NA	NA	NA	NA	2.63	9.12	8.40
SW-34	3	4/4/2018	NA	NA	NA	NA	NA	NA	NA	1.63	4.59	8.70
SW-35	3	4/4/2018	NA	NA	NA	NA	NA	NA	NA	7.55	28.70	9.50
SW-36	3	4/4/2018	NA	NA	NA	NA	NA	NA	NA	7.54	NA	NA
SW-37	3	4/4/2018	NA	NA	NA	NA	NA	NA	NA	0.596	NA	NA
SW-38	3	4/4/2018	NA	NA	NA	NA	NA	NA	NA	0.778	NA	NA
SW-39	3	4/4/2018	NA	NA	NA	NA	NA	NA	NA	0.562	NA	NA
BH-1	6	3/6/2018	<0.0020	<0.0050	<0.0050	<0.0050	<0.50	<50	<50	4.63	8.87	8.20
BH-2	6	3/6/2018	<0.0020	<0.0050	<0.0050	<0.0050	<0.50	<50	<50	10.3	16.0	7.82
BH-3	6	3/6/2018	<0.0020	<0.0050	<0.0050	<0.0050	3.3	<50	<50	9.44	1.56	8.54
BH-4	2	3/6/2018	<0.0020	<0.0050	<0.0050	<0.0050	<0.50	<50	<50	5.00	7.32	8.10
BH-5	2	3/6/2018	<0.0020	<0.0050	<0.0050	<0.0050	<0.50	<50	<50	4.48	7.60	8.10
BH-7	6	3/21/2018	<0.0020	<0.0050	<0.0050	<0.0050	<0.50	<50	<50	7.88	6.23	7.79
BH-8	3	3/21/2018	<0.0020	<0.0050	<0.0050	<0.0050	<0.50	<50	<50	2.43	6.34	8.18
BH-9	3	3/21/2018	<0.0020	<0.0050	<0.0050	<0.0050	<0.50	<50	<50	5.26	7.74	7.79
SS-1	0	3/21/2018	<0.0020	<0.0050	<0.0050	<0.0050	<0.50	<50	<50	5.02	8.54	7.94



Table 1 - Soil Analytical Data

Whiting Oil & Gas Corporation
Razor 25B
Weld County, Colorado

Sample ID	Depth BGS in Feet	Date Sampled	Concentration (mg/kg)							mmhos/cm	Units	
			Benzene	Toluene	Ethylbenzene	Xylenes (Total)	GRO	DRO	TPH	EC	SAR	pH
COGCC Table 910-1 Concentration Levels			0.17	85	100	175	NA	NA	500	<4	<12	6-9

mg/kg - milligrams per kilogram

mmhos/cm - millimhos per centimeter

< - Analytical result is less than the reporting limit

COGCC - Colorado Oil and Gas Conservation Commission

GRO - Gasoline Range Organics

DRO - Diesel Range Organics

TPH - Total Petroleum Hydrocarbons (Combined GRO/DRO)

EC - Electrical Conductivity

SAR - Sodium Adsorption Ratio

NA - Not Analyzed

BGS - Below Ground Surface

Attachment 3
Analytical Reports

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

March 15, 2018

Colby Sterling
Talon/LPE
1811 E Mulberry
Ft Collins, CO 80524
RE: Razor 25B

Enclosed are the results of analyses for samples received by Summit Scientific on 03/06/18 15:00. 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 For Ben Shrewsbury
Laboratory Manager



Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Colby Sterling

Reported:
03/15/18 11:22

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SW-1@3'	1803065-01	Soil	03/06/18 09:30	03/06/18 15:00
SW-2@3'	1803065-02	Soil	03/06/18 09:35	03/06/18 15:00
SW-3@3'	1803065-03	Soil	03/06/18 09:40	03/06/18 15:00
SW-4@3'	1803065-04	Soil	03/06/18 09:45	03/06/18 15:00
SW-5@3'	1803065-05	Soil	03/06/18 09:50	03/06/18 15:00
SW-6@3'	1803065-06	Soil	03/06/18 09:55	03/06/18 15:00
SW-7@3'	1803065-07	Soil	03/06/18 10:00	03/06/18 15:00
SW-8@3'	1803065-08	Soil	03/06/18 10:05	03/06/18 15:00
SW-9@3'	1803065-09	Soil	03/06/18 10:10	03/06/18 15:00
SW-10@3'	1803065-10	Soil	03/06/18 10:15	03/06/18 15:00
SW-11@3'	1803065-11	Soil	03/06/18 10:20	03/06/18 15:00
SW-12@3'	1803065-12	Soil	03/06/18 10:25	03/06/18 15:00
SW-13@1'	1803065-13	Soil	03/06/18 10:30	03/06/18 15:00
SW-14@1'	1803065-14	Soil	03/06/18 10:35	03/06/18 15:00
SW-15@1'	1803065-15	Soil	03/06/18 10:40	03/06/18 15:00
SW-16@1'	1803065-16	Soil	03/06/18 10:45	03/06/18 15:00
SW-17@1'	1803065-17	Soil	03/06/18 10:50	03/06/18 15:00
SW-18@1'	1803065-18	Soil	03/06/18 10:55	03/06/18 15:00
SW-19@1'	1803065-19	Soil	03/06/18 11:00	03/06/18 15:00
BH-1@6'	1803065-20	Soil	03/06/18 11:05	03/06/18 15:00
BH-2@6'	1803065-21	Soil	03/06/18 11:10	03/06/18 15:00
BH-3@6'	1803065-22	Soil	03/06/18 11:15	03/06/18 15:00
BH-4@2'	1803065-23	Soil	03/06/18 11:20	03/06/18 15:00
BH-5@2'	1803065-24	Soil	03/06/18 11:25	03/06/18 15:00

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

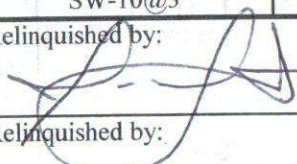
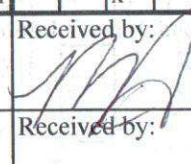

1803065.1

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

Page 1 of 38

Client: Talon/LPE - Bill to Whiting
Address: 1811 East Mulberry
City/State/Zip: Fort Collins, CO 80524
Phone: 970-818-5330 Fax:
Sampler Name: Colby Sterling

Project Manager: Colby Sterling
E-Mail: csterling@talonlpe.com and jgalles@talonlpe.com
Project Name: Razor 25B
Project Number: 701530.107.02

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative				Matrix				Analyze For:										Special Instructions				
				HCl	HNO ₃	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	BTEX	GRO/DRO	EC	SAR	pH										
SW-1@3'	3/6/2018	9:30	1			x			x					x	x	x	x	x								
SW-2@3'	3/6/2018	9:35	1			x			x					x	x	x	x	x								
SW-3@3'	3/6/2018	9:40	1			x			x					x	x	x	x	x								
SW-4@3'	3/6/2018	9:45	1			x			x					x	x	x	x	x								
SW-5@3'	3/6/2018	9:50	1			x			x					x	x	x	x	x								
SW-6@3'	3/6/2018	9:55	1			x			x					x	x	x	x	x								
SW-7@3'	3/6/2018	10:00	1			x			x					x	x	x	x	x								
SW-8@3'	3/6/2018	10:05	1			x			x					x	x	x	x	x								
SW-9@3'	3/6/2018	10:10	1			x			x					x	x	x	x	x								
SW-10@3'	3/6/2018	10:15	1			x			x					x	x	x	x	x								
Relinquished by:  3.6.18 15:00				Date/Time:				Received by:  3/6/18 1500				Date/Time:				Turn Around Time (Check)										on ice
Relinquished by:				Date/Time:				Received by:				Date/Time:				Same Day <input type="checkbox"/> 24 Hours <input checked="" type="checkbox"/>  48 Hours <input type="checkbox"/>										
Relinquished by:				Date/Time:				Received in Lab by:				Date/Time:				Sample Integrity: Temperature Upon Receipt: 10.3°C Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No										

Summit Scientific

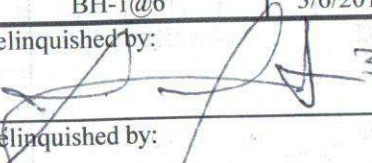
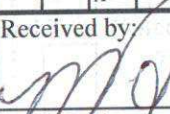
1803065.2

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

Page 2 of 3

Client: Talon/LPE - Bill to Whiting
Address: 1811 East Mulberry
City/State/Zip: Fort Collins, CO 80524
Phone: 970-818-5330 Fax:
Sampler Name: Colby Sterling

Project Manager: Colby Sterling
E-Mail: csterling@talonlpe.com and jgalles@talonlpe.com
Project Name: Razor 25B
Project Number: 701530.107.02

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative				Matrix				Analyze For:										Special Instructions				
				HCl	HNO ₃	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	BTEX	GRO/DRO	EC	SAR	pH										
SW-11@3'	3/6/2018	10:20	1			x			x				x	x	x	x	x									
SW-12@3'	3/6/2018	10:25	1			x			x				x	x	x	x	x									
SW-13@1'	3/6/2018	10:30	1			x			x				x	x	x	x	x									
SW-14@1'	3/6/2018	10:35	1			x			x				x	x	x	x	x									
SW-15@1'	3/6/2018	10:40	1			x			x				x	x	x	x	x									
SW-16@1'	3/6/2018	10:45	1			x			x				x	x	x	x	x									
SW-17@1'	3/6/2018	10:50	1			x			x				x	x	x	x	x									
SW-18@1'	3/6/2018	10:55	1			x			x				x	x	x	x	x									
SW-19@1'	3/6/2018	11:00	1			x			x				x	x	x	x	x									
BH-1@6'	3/6/2018	11:05	1			x			x				x	x	x	x	x									
Relinquished by:  3.6.18 14:00				Date/Time:				Received by:  3/6/18 1500				Date/Time:				Turn Around Time (Check)										on ice
Relinquished by:				Date/Time:				Received by:				Date/Time:				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"/>										
Relinquished by:				Date/Time:				Received in Lab by:				Date/Time:				Sample Integrity: Temperature Upon Receipt: <u>10.3°C</u> Intact: Yes <input type="checkbox"/> No <input type="checkbox"/>										

Summit Scientific

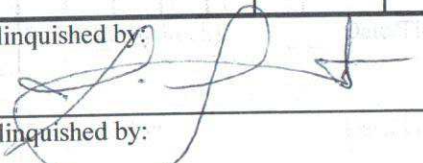
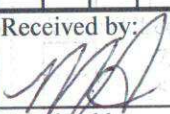
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303-277-9310 ♦ 303-374-5933 Fax

Page 3 of 3

Client: Talon/LPE - Bill to Whiting
Address: 1811 East Mulberry
City/State/Zip: Fort Collins, CO 80524
Phone: 970-818-5330 Fax:
Sampler Name: Colby Sterling

Project Manager: Colby Sterling
E-Mail: csterling@talonlpe.com and jgalles@talonlpe.com
Project Name: Razor 25B
Project Number: 701530.107.02

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative				Matrix				Analyze For:										Special Instructions		
				HCl	HNO ₃	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	BTEX	GRO/DRO	EC	SAR	pH								
BH-1 @6'	3/6/2018	11:05	1			X			X				X	X	X	X	X							Duplicate
BH-2 @6'	3/6/2018	11:10	1			X			X				X	X	X	X	X							
BH-3 @6'	3/6/2018	11:15	1			X			X				X	X	X	X	X							
BH-4 @2'	3/6/2018	11:20	1			X			X				X	X	X	X	X							
BH-5 @2'	3/6/2018	11:25	1			X			X				X	X	X	X	X							
Relinquished by: 				Date/Time: 3.6.18 1500		Received by: 				Date/Time: 3/6/18 1500		Turn Around Time (Check)										on ice		
Relinquished by:				Date/Time:		Received by:				Date/Time:		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"/>												
Relinquished by:				Date/Time:		Received in Lab by:				Date/Time:		Sample Integrity: Temperature Upon Receipt: 10.3°C Intact: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>												

Sample Receipt Checklist

S2 Work Order: 1803065

Client: Talon/LPE

Client Project ID: Razor 25B

Shipped Via: Hand

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

Airbill #: _____

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

(Describe)

Cooler ID					
Temp (°C)	10.3				

Thermometer ID: 61857155-K

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

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

Nakita
Custodian Printed Name

[Signature]
Signature or Initials of Custodian

3/6/18 1500
Date/Time



Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Colby Sterling

Reported:
03/15/18 11:22

SW-1@3'
1803065-01 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 03/06/18 09:30									
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1803097	03/07/18	03/10/18	8015M	

Date Sampled: 03/06/18 09:30									
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		99.1 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 03/06/18 09:30									
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1803099	03/07/18	03/08/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.76	0.50	"	"	"	"	"	"	

Date Sampled: 03/06/18 09:30									
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		95.3 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		92.2 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.0 %	21-167		"	"	"	"	

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

Date Sampled: 03/06/18 09:30									
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	3390	12.7	mg/kg dry	1	1803136	03/09/18	03/14/18	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	491	6.35	"	"	"	"	"	"	

Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Colby Sterling

Reported:
03/15/18 11:22

SW-1@3'
1803065-01 (Soil)

Summit Scientific

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

Sodium	3320	6.35 mg/kg dry	1	1803136	03/09/18	03/14/18	EPA 6020/Mod. USDA60 6(2, 3A)
Sodium Adsorption Ratio	14.1	units	"	1803185	03/15/18	03/15/18	"

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/06/18 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	78.8		%	1	1803137	03/09/18	03/13/18	% calculation	
pH	7.98	0.100	pH Units	"	1803123	03/08/18	03/09/18	EPA 9045	

Specific Conductance by EPA120.1

Date Sampled: **03/06/18 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	11.7	0.0100	mmhos/cm	1	1803122	03/08/18	03/13/18	EPA 120.1	

Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Colby Sterling

Reported:
03/15/18 11:22

SW-2@3'
1803065-02 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/06/18 09:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1803097	03/07/18	03/10/18	8015M	

Date Sampled: **03/06/18 09:35**

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

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/06/18 09:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1803099	03/07/18	03/08/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/06/18 09:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		92.8 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		101 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		84.5 %	21-167		"	"	"	"	

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

Date Sampled: **03/06/18 09:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	3240	12.6	mg/kg dry	1	1803136	03/09/18	03/14/18	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	374	6.30	"	"	"	"	"	"	

Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Colby Sterling

Reported:
03/15/18 11:22

SW-2@3'
1803065-02 (Soil)

Summit Scientific

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

Sodium	4200	6.30 mg/kg dry	1	1803136	03/09/18	03/14/18	EPA 6020/Mod. USDA60 6(2, 3A)
Sodium Adsorption Ratio	18.6	units	"	1803185	03/15/18	03/15/18	"

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/06/18 09:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	79.4		%	1	1803137	03/09/18	03/13/18	% calculation	
pH	8.32	0.100	pH Units	"	1803123	03/08/18	03/09/18	EPA 9045	

Specific Conductance by EPA120.1

Date Sampled: **03/06/18 09:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	14.4	0.0100	mmhos/cm	1	1803122	03/08/18	03/13/18	EPA 120.1	

Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Colby Sterling

Reported:
03/15/18 11:22

SW-3@3'
1803065-03 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/06/18 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1803097	03/07/18	03/10/18	8015M	

Date Sampled: **03/06/18 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		101 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/06/18 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1803099	03/07/18	03/08/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/06/18 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		97.3 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		102 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		83.5 %	21-167		"	"	"	"	

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

Date Sampled: **03/06/18 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	1560	12.4	mg/kg dry	1	1803136	03/09/18	03/14/18	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	280	6.21	"	"	"	"	"	"	

Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Colby Sterling

Reported:
03/15/18 11:22

SW-3@3'
1803065-03 (Soil)

Summit Scientific

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

Sodium	1500	6.21 mg/kg dry	1	1803136	03/09/18	03/14/18	EPA 6020/Mod. USDA60 6(2, 3A)
Sodium Adsorption Ratio	9.19	units	"	1803185	03/15/18	03/15/18	"

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/06/18 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	80.5		%	1	1803137	03/09/18	03/13/18	% calculation	
pH	7.93	0.100	pH Units	"	1803123	03/08/18	03/09/18	EPA 9045	

Specific Conductance by EPA120.1

Date Sampled: **03/06/18 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	8.42	0.0100	mmhos/cm	1	1803122	03/08/18	03/13/18	EPA 120.1	

Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Colby Sterling

Reported:
03/15/18 11:22

SW-4@3'
1803065-04 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/06/18 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1803097	03/07/18	03/10/18	8015M	

Date Sampled: **03/06/18 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		74.3 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/06/18 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1803099	03/07/18	03/08/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/06/18 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		94.0 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		104 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		83.2 %	21-167		"	"	"	"	

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

Date Sampled: **03/06/18 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	2760	11.4	mg/kg dry	1	1803136	03/09/18	03/14/18	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	278	5.68	"	"	"	"	"	"	

Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Colby Sterling

Reported:
03/15/18 11:22

SW-4@3'
1803065-04 (Soil)

Summit Scientific

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

Sodium	1830	5.68 mg/kg dry	1	1803136	03/09/18	03/14/18	EPA 6020/Mod. USDA60 6(2, 3A)
Sodium Adsorption Ratio	8.88	units	"	1803185	03/15/18	03/15/18	"

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/06/18 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.00	0.100	pH Units	1	1803123	03/08/18	03/09/18	EPA 9045	
% Solids	88.0		%	"	1803137	03/09/18	03/13/18	% calculation	

Specific Conductance by EPA120.1

Date Sampled: **03/06/18 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	13.7	0.0100	mmhos/cm	1	1803122	03/08/18	03/13/18	EPA 120.1	

Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Colby Sterling

Reported:
03/15/18 11:22

SW-5@3'
1803065-05 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/06/18 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1803097	03/07/18	03/10/18	8015M	

Date Sampled: **03/06/18 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		96.5 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/06/18 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1803099	03/07/18	03/08/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/06/18 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		94.4 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		101 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		84.6 %	21-167		"	"	"	"	

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

Date Sampled: **03/06/18 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	3120	12.9	mg/kg dry	1	1803135	03/09/18	03/14/18	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	425	6.47	"	"	"	"	"	"	

Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Colby Sterling

Reported:
03/15/18 11:22

SW-5@3'
1803065-05 (Soil)

Summit Scientific

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

Sodium	1480	6.47 mg/kg dry	1	1803135	03/09/18	03/14/18	EPA 6020/Mod. USDA60 6(2, 3A)
Sodium Adsorption Ratio	6.59	units	"	1803185	03/15/18	03/15/18	"

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/06/18 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.97	0.100	pH Units	1	1803123	03/08/18	03/09/18	EPA 9045	
% Solids	77.2		%	"	1803137	03/09/18	03/13/18	% calculation	

Specific Conductance by EPA120.1

Date Sampled: **03/06/18 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	6.64	0.0100	mmhos/cm	1	1803122	03/08/18	03/13/18	EPA 120.1	

Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Colby Sterling

Reported:
03/15/18 11:22

SW-6@3'
1803065-06 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/06/18 09:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1803097	03/07/18	03/10/18	8015M	

Date Sampled: **03/06/18 09:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		98.9 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/06/18 09:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1803099	03/07/18	03/08/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/06/18 09:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		93.7 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		101 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		84.2 %	21-167		"	"	"	"	

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

Date Sampled: **03/06/18 09:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	2490	12.4	mg/kg dry	1	1803135	03/09/18	03/14/18	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	376	6.21	"	"	"	"	"	"	

Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Colby Sterling

Reported:
03/15/18 11:22

SW-6@3'
1803065-06 (Soil)

Summit Scientific

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

Sodium	3810	6.21 mg/kg dry	1	1803135	03/09/18	03/14/18	EPA 6020/Mod. USDA60 6(2, 3A)
Sodium Adsorption Ratio	18.8	units	"	1803185	03/15/18	03/15/18	"

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/06/18 09:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.37	0.100	pH Units	1	1803123	03/08/18	03/09/18	EPA 9045	
% Solids	80.6		%	"	1803137	03/09/18	03/13/18	% calculation	

Specific Conductance by EPA120.1

Date Sampled: **03/06/18 09:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	4.95	0.0100	mmhos/cm	1	1803122	03/08/18	03/13/18	EPA 120.1	

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Colby Sterling

Reported:
03/15/18 11:22

SW-7@3'
1803065-07 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/06/18 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	740	50	mg/kg	1	1803097	03/07/18	03/10/18	8015M	

Date Sampled: **03/06/18 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>		167 %	30-150		"	"	"	"	S-02

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/06/18 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	4.8	0.20	mg/kg	100	1803099	03/07/18	03/08/18	EPA 8260B	
Toluene	11	0.50	"	"	"	"	"	"	
Ethylbenzene	2.5	0.50	"	"	"	"	"	"	
Xylenes (total)	21	0.50	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	1600	50	"	"	"	"	"	"	

Date Sampled: **03/06/18 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		113 %	23-173		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		97.4 %	20-170		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		128 %	21-167		"	"	"	"	

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

Date Sampled: **03/06/18 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	4140	14.2	mg/kg dry	1	1803135	03/09/18	03/14/18	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	510	7.11	"	"	"	"	"	"	

Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Colby Sterling

Reported:
03/15/18 11:22

SW-7@3'
1803065-07 (Soil)

Summit Scientific

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

Sodium	4960	7.11	mg/kg dry	1	1803135	03/09/18	03/14/18	EPA 6020/Mod. USDA60 6(2, 3A)
Sodium Adsorption Ratio	19.4		units	"	1803185	03/15/18	03/15/18	"

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/06/18 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.87	0.100	pH Units	1	1803123	03/08/18	03/09/18	EPA 9045	
% Solids	70.3		%	"	1803137	03/09/18	03/13/18	% calculation	

Specific Conductance by EPA120.1

Date Sampled: **03/06/18 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	10.2	0.0100	mmhos/cm	1	1803122	03/08/18	03/13/18	EPA 120.1	

Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Colby Sterling

Reported:
03/15/18 11:22

SW-8@3'
1803065-08 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/06/18 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1803097	03/07/18	03/10/18	8015M	

Date Sampled: **03/06/18 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		93.2 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/06/18 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1803099	03/07/18	03/08/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/06/18 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		91.4 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		102 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		83.1 %	21-167		"	"	"	"	

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

Date Sampled: **03/06/18 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	2000	11.3	mg/kg dry	1	1803135	03/09/18	03/14/18	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	277	5.65	"	"	"	"	"	"	

Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Colby Sterling

Reported:
03/15/18 11:22

SW-8@3'
1803065-08 (Soil)

Summit Scientific

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

Sodium	2100	5.65 mg/kg dry	1	1803135	03/09/18	03/14/18	EPA 6020/Mod. USDA60 6(2, 3A)
Sodium Adsorption Ratio	11.7	units	"	1803185	03/15/18	03/15/18	"

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/06/18 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.99	0.100	pH Units	1	1803123	03/08/18	03/09/18	EPA 9045	
% Solids	88.5		%	"	1803137	03/09/18	03/13/18	% calculation	

Specific Conductance by EPA120.1

Date Sampled: **03/06/18 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	8.09	0.0100	mmhos/cm	1	1803122	03/08/18	03/13/18	EPA 120.1	

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Colby Sterling

Reported:
03/15/18 11:22

SW-9@3'
1803065-09 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/06/18 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1803097	03/07/18	03/10/18	8015M	

Date Sampled: **03/06/18 10:10**

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

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/06/18 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1803099	03/07/18	03/08/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/06/18 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		98.3 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		101 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		83.8 %	21-167		"	"	"	"	

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

Date Sampled: **03/06/18 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	2580	12.8	mg/kg dry	1	1803135	03/09/18	03/14/18	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	408	6.39	"	"	"	"	"	"	

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Colby Sterling

Reported:
03/15/18 11:22

SW-9@3'
1803065-09 (Soil)

Summit Scientific

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

Sodium	3400	6.39 mg/kg dry	1	1803135	03/09/18	03/14/18	EPA 6020/Mod. USDA60 6(2, 3A)
Sodium Adsorption Ratio	16.4	units	"	1803185	03/15/18	03/15/18	"

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/06/18 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.95	0.100	pH Units	1	1803123	03/08/18	03/09/18	EPA 9045	
% Solids	78.3		%	"	1803137	03/09/18	03/13/18	% calculation	

Specific Conductance by EPA120.1

Date Sampled: **03/06/18 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	10.8	0.0100	mmhos/cm	1	1803122	03/08/18	03/13/18	EPA 120.1	

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Colby Sterling

Reported:
03/15/18 11:22

SW-10@3'
1803065-10 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/06/18 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1803097	03/07/18	03/10/18	8015M	

Date Sampled: **03/06/18 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		95.9 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/06/18 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1803099	03/07/18	03/08/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/06/18 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		92.2 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		101 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		85.1 %	21-167		"	"	"	"	

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

Date Sampled: **03/06/18 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	1970	12.5	mg/kg dry	1	1803135	03/09/18	03/14/18	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	313	6.25	"	"	"	"	"	"	

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Colby Sterling

Reported:
03/15/18 11:22

SW-10@3'
1803065-10 (Soil)

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

Sodium	3410	6.25 mg/kg dry	1	1803135	03/09/18	03/14/18	EPA 6020/Mod. USDA60 6(2, 3A)
Sodium Adsorption Ratio	18.8	units	"	1803185	03/15/18	03/15/18	"

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/06/18 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	80.0		%	1	1803137	03/09/18	03/13/18	% calculation	
pH	8.97	0.100	pH Units	"	1803123	03/08/18	03/09/18	EPA 9045	

Specific Conductance by EPA120.1

Date Sampled: **03/06/18 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	6.48	0.0100	mmhos/cm	1	1803122	03/08/18	03/13/18	EPA 120.1	

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Colby Sterling

Reported:
03/15/18 11:22

SW-11@3'
1803065-11 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/06/18 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1803097	03/07/18	03/10/18	8015M	

Date Sampled: **03/06/18 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		96.1 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/06/18 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1803099	03/07/18	03/08/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/06/18 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		96.3 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		103 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		84.8 %	21-167		"	"	"	"	

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

Date Sampled: **03/06/18 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	1220	11.7	mg/kg dry	1	1803135	03/09/18	03/14/18	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	183	5.85	"	"	"	"	"	"	

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Colby Sterling

Reported:
03/15/18 11:22

SW-11@3'
1803065-11 (Soil)

Summit Scientific

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

Sodium	1340	5.85 mg/kg dry	1	1803135	03/09/18	03/14/18	EPA 6020/Mod. USDA60 6(2, 3A)
Sodium Adsorption Ratio	9.46	units	"	1803185	03/15/18	03/15/18	"

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/06/18 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.5		%	1	1803137	03/09/18	03/13/18	% calculation	
pH	8.76	0.100	pH Units	"	1803123	03/08/18	03/09/18	EPA 9045	

Specific Conductance by EPA120.1

Date Sampled: **03/06/18 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.14	0.0100	mmhos/cm	1	1803122	03/08/18	03/13/18	EPA 120.1	

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Colby Sterling

Reported:
03/15/18 11:22

SW-12@3'
1803065-12 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/06/18 10:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1803097	03/07/18	03/11/18	8015M	

Date Sampled: **03/06/18 10:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		101 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/06/18 10:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1803099	03/07/18	03/08/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/06/18 10:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		93.0 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		103 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		83.7 %	21-167		"	"	"	"	

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

Date Sampled: **03/06/18 10:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	2600	12.6	mg/kg dry	1	1803135	03/09/18	03/14/18	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	340	6.31	"	"	"	"	"	"	

Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Colby Sterling

Reported:
03/15/18 11:22

SW-12@3'
1803065-12 (Soil)

Summit Scientific

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

Sodium	4220	6.31	mg/kg dry	1	1803135	03/09/18	03/14/18	EPA 6020/Mod. USDA60 6(2, 3A)
Sodium Adsorption Ratio	20.7		units	"	1803185	03/15/18	03/15/18	"

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/06/18 10:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	79.2		%	1	1803137	03/09/18	03/13/18	% calculation	
pH	8.97	0.100	pH Units	"	1803123	03/08/18	03/09/18	EPA 9045	

Specific Conductance by EPA120.1

Date Sampled: **03/06/18 10:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	7.56	0.0100	mmhos/cm	1	1803122	03/08/18	03/13/18	EPA 120.1	

Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Colby Sterling

Reported:
03/15/18 11:22

SW-13@1'
1803065-13 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/06/18 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1803097	03/07/18	03/11/18	8015M	

Date Sampled: **03/06/18 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		90.6 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/06/18 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1803099	03/07/18	03/08/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/06/18 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		94.5 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		102 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		83.9 %	21-167		"	"	"	"	

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

Date Sampled: **03/06/18 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	1040	11.4	mg/kg dry	1	1803135	03/09/18	03/14/18	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	134	5.68	"	"	"	"	"	"	

Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Colby Sterling

Reported:
03/15/18 11:22

SW-13@1'
1803065-13 (Soil)

Summit Scientific

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

Sodium	572	5.68 mg/kg dry	1	1803135	03/09/18	03/14/18	EPA 6020/Mod. USDA60 6(2, 3A)
Sodium Adsorption Ratio	4.44	units	"	1803185	03/15/18	03/15/18	"

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/06/18 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.0		%	1	1803137	03/09/18	03/13/18	% calculation	
pH	8.65	0.100	pH Units	"	1803123	03/08/18	03/09/18	EPA 9045	

Specific Conductance by EPA120.1

Date Sampled: **03/06/18 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	13.4	0.0100	mmhos/cm	1	1803122	03/08/18	03/13/18	EPA 120.1	

Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Colby Sterling

Reported:
03/15/18 11:22

SW-14@1'
1803065-14 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/06/18 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1803097	03/07/18	03/11/18	8015M	

Date Sampled: **03/06/18 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		96.4 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/06/18 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1803099	03/07/18	03/08/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/06/18 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		96.5 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		103 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		84.0 %	21-167		"	"	"	"	

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

Date Sampled: **03/06/18 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	789	11.4	mg/kg dry	1	1803135	03/09/18	03/14/18	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	117	5.68	"	"	"	"	"	"	

Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Colby Sterling

Reported:
03/15/18 11:22

SW-14@1'
1803065-14 (Soil)

Summit Scientific

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

Sodium	1260	5.68 mg/kg dry	1	1803135	03/09/18	03/14/18	EPA 6020/Mod. USDA60 6(2, 3A)
Sodium Adsorption Ratio	11.1	units	"	1803185	03/15/18	03/15/18	"

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/06/18 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.0		%	1	1803137	03/09/18	03/13/18	% calculation	
pH	8.87	0.100	pH Units	"	1803123	03/08/18	03/09/18	EPA 9045	

Specific Conductance by EPA120.1

Date Sampled: **03/06/18 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	4.65	0.0100	mmhos/cm	1	1803122	03/08/18	03/13/18	EPA 120.1	

Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Colby Sterling

Reported:
03/15/18 11:22

SW-15@1'
1803065-15 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/06/18 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1803097	03/07/18	03/11/18	8015M	

Date Sampled: **03/06/18 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		97.4 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/06/18 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1803099	03/07/18	03/08/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/06/18 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		95.6 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		104 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		83.3 %	21-167		"	"	"	"	

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

Date Sampled: **03/06/18 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	1010	12.3	mg/kg dry	1	1803135	03/09/18	03/14/18	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	163	6.16	"	"	"	"	"	"	

Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Colby Sterling

Reported:
03/15/18 11:22

SW-15@1'
1803065-15 (Soil)

Summit Scientific

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

Sodium	190	6.16 mg/kg dry	1	1803135	03/09/18	03/14/18	EPA 6020/Mod. USDA60 6(2, 3A)
Sodium Adsorption Ratio	1.46	units	"	1803185	03/15/18	03/15/18	"

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/06/18 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	81.1		%	1	1803137	03/09/18	03/13/18	% calculation	
pH	8.69	0.100	pH Units	"	1803123	03/08/18	03/09/18	EPA 9045	

Specific Conductance by EPA120.1

Date Sampled: **03/06/18 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.597	0.0100	mmhos/cm	1	1803122	03/08/18	03/13/18	EPA 120.1	

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Colby Sterling

Reported:
03/15/18 11:22

SW-16@1'
1803065-16 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/06/18 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1803097	03/07/18	03/11/18	8015M	

Date Sampled: **03/06/18 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		92.7 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/06/18 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1803099	03/07/18	03/08/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/06/18 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		102 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		104 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		85.6 %	21-167		"	"	"	"	

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

Date Sampled: **03/06/18 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	849	11.5	mg/kg dry	1	1803135	03/09/18	03/14/18	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	154	5.74	"	"	"	"	"	"	

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Colby Sterling

Reported:
03/15/18 11:22

SW-16@1'
1803065-16 (Soil)

Summit Scientific

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

Sodium	548	5.74 mg/kg dry	1	1803135	03/09/18	03/14/18	EPA 6020/Mod. USDA60 6(2, 3A)
Sodium Adsorption Ratio	4.54	units	"	1803185	03/15/18	03/15/18	"

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/06/18 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.93	0.100	pH Units	1	1803123	03/08/18	03/09/18	EPA 9045	
% Solids	87.2		%	"	1803137	03/09/18	03/13/18	% calculation	

Specific Conductance by EPA120.1

Date Sampled: **03/06/18 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.791	0.0100	mmhos/cm	1	1803122	03/08/18	03/13/18	EPA 120.1	

Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Colby Sterling

Reported:
03/15/18 11:22

SW-17@1'
1803065-17 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/06/18 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1803097	03/07/18	03/11/18	8015M	

Date Sampled: **03/06/18 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		101 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/06/18 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1803099	03/07/18	03/08/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/06/18 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		96.8 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		103 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		85.6 %	21-167		"	"	"	"	

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

Date Sampled: **03/06/18 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	1340	11.7	mg/kg dry	1	1803135	03/09/18	03/14/18	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	227	5.87	"	"	"	"	"	"	

Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Colby Sterling

Reported:
03/15/18 11:22

SW-17@1'
1803065-17 (Soil)

Summit Scientific

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

Sodium	350	5.87 mg/kg dry	1	1803135	03/09/18	03/14/18	EPA 6020/Mod. USDA60 6(2, 3A)
Sodium Adsorption Ratio	2.33	units	"	1803185	03/15/18	03/15/18	"

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/06/18 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.52	0.100	pH Units	1	1803123	03/08/18	03/09/18	EPA 9045	
% Solids	85.2		%	"	1803137	03/09/18	03/13/18	% calculation	

Specific Conductance by EPA120.1

Date Sampled: **03/06/18 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.835	0.0100	mmhos/cm	1	1803122	03/08/18	03/13/18	EPA 120.1	

Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Colby Sterling

Reported:
03/15/18 11:22

SW-18@1'
1803065-18 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/06/18 10:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1803097	03/07/18	03/11/18	8015M	

Date Sampled: **03/06/18 10:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		90.0 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/06/18 10:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1803099	03/07/18	03/08/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/06/18 10:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		98.6 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		100 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		82.6 %	21-167		"	"	"	"	

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

Date Sampled: **03/06/18 10:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	1330	11.4	mg/kg dry	1	1803135	03/09/18	03/14/18	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	178	5.70	"	"	"	"	"	"	

Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Colby Sterling

Reported:
03/15/18 11:22

SW-18@1'
1803065-18 (Soil)

Summit Scientific

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

Sodium	122	5.70 mg/kg dry	1	1803135	03/09/18	03/14/18	EPA 6020/Mod. USDA60 6(2, 3A)
Sodium Adsorption Ratio	0.834	units	"	1803185	03/15/18	03/15/18	"

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/06/18 10:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.7		%	1	1803137	03/09/18	03/13/18	% calculation	
pH	8.31	0.100	pH Units	"	1803123	03/08/18	03/09/18	EPA 9045	

Specific Conductance by EPA120.1

Date Sampled: **03/06/18 10:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.592	0.0100	mmhos/cm	1	1803122	03/08/18	03/13/18	EPA 120.1	

Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Colby Sterling

Reported:
03/15/18 11:22

SW-19@1'
1803065-19 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/06/18 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1803097	03/07/18	03/11/18	8015M	

Date Sampled: **03/06/18 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		102 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/06/18 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1803099	03/07/18	03/08/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/06/18 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		94.7 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		103 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		83.5 %	21-167		"	"	"	"	

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

Date Sampled: **03/06/18 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	6010	12.4	mg/kg dry	1	1803135	03/09/18	03/14/18	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	843	6.19	"	"	"	"	"	"	

Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Colby Sterling

Reported:
03/15/18 11:22

SW-19@1'
1803065-19 (Soil)

Summit Scientific

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

Sodium	2020	6.19	mg/kg dry	1	1803135	03/09/18	03/14/18	EPA 6020/Mod. USDA60 6(2, 3A)
Sodium Adsorption Ratio	6.47		units	"	1803185	03/15/18	03/15/18	"

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/06/18 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.21	0.100	pH Units	1	1803123	03/08/18	03/09/18	EPA 9045	
% Solids	80.8		%	"	1803137	03/09/18	03/13/18	% calculation	

Specific Conductance by EPA120.1

Date Sampled: **03/06/18 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	5.14	0.0100	mmhos/cm	1	1803122	03/08/18	03/13/18	EPA 120.1	

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Colby Sterling

Reported:
03/15/18 11:22

BH-1@6'
1803065-20 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/06/18 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1803097	03/07/18	03/11/18	8015M	

Date Sampled: **03/06/18 11:05**

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

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/06/18 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1803099	03/07/18	03/08/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/06/18 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		95.9 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		102 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		85.6 %	21-167		"	"	"	"	

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

Date Sampled: **03/06/18 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	2920	12.4	mg/kg dry	1	1803135	03/09/18	03/14/18	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	404	6.22	"	"	"	"	"	"	

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Colby Sterling

Reported:
03/15/18 11:22

BH-1@6'
1803065-20 (Soil)

Summit Scientific

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

Sodium	1930	6.22 mg/kg dry	1	1803135	03/09/18	03/14/18	EPA 6020/Mod. USDA60 6(2, 3A)
Sodium Adsorption Ratio	8.87	units	"	1803185	03/15/18	03/15/18	"

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/06/18 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	80.4		%	1	1803137	03/09/18	03/13/18	% calculation	
pH	8.20	0.100	pH Units	"	1803129	03/09/18	03/09/18	EPA 9045	

Specific Conductance by EPA120.1

Date Sampled: **03/06/18 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	4.63	0.0100	mmhos/cm	1	1803127	03/09/18	03/13/18	EPA 120.1	

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Colby Sterling

Reported:
03/15/18 11:22

BH-2@6'
1803065-21 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/06/18 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1803098	03/07/18	03/09/18	8015M	

Date Sampled: **03/06/18 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		93.0 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/06/18 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1803100	03/07/18	03/07/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/06/18 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		90.3 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		102 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		84.3 %	21-167		"	"	"	"	

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

Date Sampled: **03/06/18 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	3470	13.6	mg/kg dry	1	1803135	03/09/18	03/14/18	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	497	6.78	"	"	"	"	"	"	

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Colby Sterling

Reported:
03/15/18 11:22

BH-2@6'
1803065-21 (Soil)

Summit Scientific

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

Sodium	3080	6.78 mg/kg dry	1	1803135	03/09/18	03/14/18	EPA 6020/Mod. USDA60 6(2, 3A)
Sodium Adsorption Ratio	16.0	units	"	1803185	03/15/18	03/15/18	"

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/06/18 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	73.7		%	1	1803137	03/09/18	03/13/18	% calculation	
pH	7.82	0.100	pH Units	"	1803129	03/09/18	03/09/18	EPA 9045	

Specific Conductance by EPA120.1

Date Sampled: **03/06/18 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	10.3	0.0100	mmhos/cm	1	1803127	03/09/18	03/13/18	EPA 120.1	

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Colby Sterling

Reported:
03/15/18 11:22

BH-3@6'
1803065-22 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/06/18 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1803098	03/07/18	03/09/18	8015M	

Date Sampled: **03/06/18 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		92.5 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/06/18 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1803100	03/07/18	03/07/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	3.3	0.50	"	"	"	"	"	"	

Date Sampled: **03/06/18 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		105 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		86.8 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.8 %	21-167		"	"	"	"	

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

Date Sampled: **03/06/18 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	3640	13.1	mg/kg dry	1	1803135	03/09/18	03/14/18	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	552	6.54	"	"	"	"	"	"	

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Colby Sterling

Reported:
03/15/18 11:22

BH-3@6'
1803065-22 (Soil)

Summit Scientific

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

Sodium	4670	6.54 mg/kg dry	1	1803135	03/09/18	03/14/18	EPA 6020/Mod. USDA60 6(2, 3A)
Sodium Adsorption Ratio	1.56	units	"	1803185	03/15/18	03/15/18	"

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/06/18 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.54	0.100	pH Units	1	1803129	03/09/18	03/09/18	EPA 9045	
% Solids	76.5		%	"	1803137	03/09/18	03/13/18	% calculation	

Specific Conductance by EPA120.1

Date Sampled: **03/06/18 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	9.44	0.0100	mmhos/cm	1	1803127	03/09/18	03/13/18	EPA 120.1	

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Colby Sterling

Reported:
03/15/18 11:22

BH-4@2'
1803065-23 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/06/18 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1803098	03/07/18	03/09/18	8015M	

Date Sampled: **03/06/18 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		98.5 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/06/18 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1803100	03/07/18	03/07/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/06/18 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		97.0 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		101 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		83.5 %	21-167		"	"	"	"	

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

Date Sampled: **03/06/18 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	3140	11.7	mg/kg dry	1	1803135	03/09/18	03/14/18	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	404	5.86	"	"	"	"	"	"	

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Colby Sterling

Reported:
03/15/18 11:22

BH-4@2'
1803065-23 (Soil)

Summit Scientific

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

Sodium	1640	5.86 mg/kg dry	1	1803135	03/09/18	03/14/18	EPA 6020/Mod. USDA60 6(2, 3A)
Sodium Adsorption Ratio	7.32	units	"	1803185	03/15/18	03/15/18	"

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/06/18 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.3		%	1	1803137	03/09/18	03/13/18	% calculation	
pH	8.10	0.100	pH Units	"	1803129	03/09/18	03/09/18	EPA 9045	

Specific Conductance by EPA120.1

Date Sampled: **03/06/18 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	5.00	0.0100	mmhos/cm	1	1803127	03/09/18	03/13/18	EPA 120.1	

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Colby Sterling

Reported:
03/15/18 11:22

BH-5@2'
1803065-24 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/06/18 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1803098	03/07/18	03/09/18	8015M	

Date Sampled: **03/06/18 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		93.1 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/06/18 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1803100	03/07/18	03/07/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/06/18 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		96.7 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		100 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		83.8 %	21-167		"	"	"	"	

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

Date Sampled: **03/06/18 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	1630	12.5	mg/kg dry	1	1803135	03/09/18	03/14/18	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	235	6.25	"	"	"	"	"	"	

Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Colby Sterling

Reported:
03/15/18 11:22

BH-5@2'
1803065-24 (Soil)

Summit Scientific

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

Sodium	1240	6.25 mg/kg dry	1	1803135	03/09/18	03/14/18	EPA 6020/Mod. USDA60 6(2, 3A)
Sodium Adsorption Ratio	7.60	units	"	1803185	03/15/18	03/15/18	"

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/06/18 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.10	0.100	pH Units	1	1803129	03/09/18	03/09/18	EPA 9045	
% Solids	80.0		%	"	1803137	03/09/18	03/13/18	% calculation	

Specific Conductance by EPA120.1

Date Sampled: **03/06/18 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	4.48	0.0100	mmhos/cm	1	1803127	03/09/18	03/13/18	EPA 120.1	

Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Colby Sterling

Reported:
03/15/18 11:22

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 1803097 - EPA 3550A

Blank (1803097-BLK1)				Prepared: 03/07/18 Analyzed: 03/10/18						
C10-C28 (DRO)	ND	50	mg/kg							
Surrogate: o-Terphenyl	12.1		"	12.5		96.9	30-150			
LCS (1803097-BS1)				Prepared: 03/07/18 Analyzed: 03/10/18						
C10-C28 (DRO)	410	50	mg/kg	499		82.1	73-134			
Surrogate: o-Terphenyl	14.6		"	12.5		117	30-150			
Matrix Spike (1803097-MS1)				Source: 1803065-01		Prepared: 03/07/18 Analyzed: 03/10/18				
C10-C28 (DRO)	388	50	mg/kg	499	12.4	75.2	50-148			
Surrogate: o-Terphenyl	13.6		"	12.5		109	30-150			
Matrix Spike Dup (1803097-MSD1)				Source: 1803065-01		Prepared: 03/07/18 Analyzed: 03/10/18				
C10-C28 (DRO)	442	50	mg/kg	499	12.4	86.2	50-148	13.2	20	
Surrogate: o-Terphenyl	13.8		"	12.5		111	30-150			

Batch 1803098 - EPA 3550A

Blank (1803098-BLK1)				Prepared: 03/07/18 Analyzed: 03/09/18						
C10-C28 (DRO)	ND	50	mg/kg							
Surrogate: o-Terphenyl	12.0		"	12.5		95.7	30-150			
LCS (1803098-BS1)				Prepared: 03/07/18 Analyzed: 03/09/18						
C10-C28 (DRO)	423	50	mg/kg	499		84.7	73-134			
Surrogate: o-Terphenyl	14.8		"	12.5		118	30-150			
Matrix Spike (1803098-MS1)				Source: 1803065-21		Prepared: 03/07/18 Analyzed: 03/09/18				
C10-C28 (DRO)	401	50	mg/kg	499	12.4	77.8	50-148			
Surrogate: o-Terphenyl	12.2		"	12.5		97.5	30-150			

Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Colby Sterling

Reported:
03/15/18 11:22

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 1803098 - EPA 3550A

Matrix Spike Dup (1803098-MSD1)				Source: 1803065-21		Prepared: 03/07/18		Analyzed: 03/09/18		
C10-C28 (DRO)	415	50	mg/kg	499	12.4	80.6	50-148	3.47	20	
Surrogate: o-Terphenyl	14.1		"	12.5		112	30-150			

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: Razor 25B
Project Number: 701530.107.02
Project Manager: Colby Sterling

Reported:
03/15/18 11:22

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 1803099 - EPA 5030 Soil MS

Blank (1803099-BLK1)

Prepared: 03/07/18 Analyzed: 03/08/18

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	0.0362		"	0.0400		90.6	23-173			
Surrogate: Toluene-d8	0.0398		"	0.0400		99.4	20-170			
Surrogate: 4-Bromofluorobenzene	0.0324		"	0.0400		80.9	21-167			

LCS (1803099-BS1)

Prepared: 03/07/18 Analyzed: 03/08/18

Benzene	0.0948	0.0020	mg/kg	0.100		94.8	58-130			
Toluene	0.0923	0.0050	"	0.100		92.3	61-134			
Ethylbenzene	0.0958	0.0050	"	0.0992		96.6	74-139			
m,p-Xylene	0.185	0.010	"	0.200		92.7	73-137			
o-Xylene	0.0964	0.0050	"	0.0980		98.4	73-141			
Xylenes (total)	0.281	0.0050	"				30-150			
Gasoline Range Hydrocarbons	2.18	0.50	"				30-150			
Surrogate: 1,2-Dichloroethane-d4	0.0376		"	0.0400		94.0	23-173			
Surrogate: Toluene-d8	0.0426		"	0.0400		106	20-170			
Surrogate: 4-Bromofluorobenzene	0.0323		"	0.0400		80.9	21-167			

Matrix Spike (1803099-MS1)

Source: 1803065-01

Prepared: 03/07/18 Analyzed: 03/08/18

Benzene	0.0411	0.0020	mg/kg	0.100	ND	41.1	30-131			
Toluene	0.0449	0.0050	"	0.100	ND	44.9	30-134			
Ethylbenzene	0.0644	0.0050	"	0.0992	ND	65.0	22-153			
m,p-Xylene	0.0826	0.010	"	0.200	ND	41.4	10-159			
o-Xylene	0.0758	0.0050	"	0.0980	ND	77.4	31-151			
Xylenes (total)	0.158	0.0050	"		ND		30-150			
Gasoline Range Hydrocarbons	1.48	0.50	"		0.761		30-150			
Surrogate: 1,2-Dichloroethane-d4	0.0373		"	0.0400		93.2	23-173			
Surrogate: Toluene-d8	0.0408		"	0.0400		102	20-170			
Surrogate: 4-Bromofluorobenzene	0.0333		"	0.0400		83.3	21-167			

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: Razor 25B
Project Number: 701530.107.02
Project Manager: Colby Sterling

Reported:
03/15/18 11:22

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 1803099 - EPA 5030 Soil MS

Matrix Spike Dup (1803099-MSD1)				Source: 1803065-01		Prepared: 03/07/18		Analyzed: 03/08/18		
Benzene	0.0338	0.0020	mg/kg	0.100	ND	33.8	30-131	19.3	34	
Toluene	0.0413	0.0050	"	0.100	ND	41.3	30-134	8.42	30	
Ethylbenzene	0.0634	0.0050	"	0.0992	ND	63.9	22-153	1.64	24	
m,p-Xylene	0.106	0.010	"	0.200	ND	53.2	10-159	25.0	68	
o-Xylene	0.0748	0.0050	"	0.0980	ND	76.3	31-151	1.43	38	
Xylenes (total)	0.181	0.0050	"		ND		30-150	13.3	20	
Gasoline Range Hydrocarbons	1.51	0.50	"		0.761		30-150	2.17	20	
Surrogate: 1,2-Dichloroethane-d4	0.0379		"	0.0400		94.7	23-173			
Surrogate: Toluene-d8	0.0404		"	0.0400		101	20-170			
Surrogate: 4-Bromofluorobenzene	0.0332		"	0.0400		83.0	21-167			

Batch 1803100 - EPA 5030 Soil MS

Blank (1803100-BLK1)				Prepared & Analyzed: 03/07/18						
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	0.0383		"	0.0400		95.8	23-173			
Surrogate: Toluene-d8	0.0330		"	0.0400		82.5	20-170			
Surrogate: 4-Bromofluorobenzene	0.0411		"	0.0400		103	21-167			

LCS (1803100-BS1)				Prepared & Analyzed: 03/07/18						
Benzene	0.134	0.0020	mg/kg	0.150		89.2	58-130			
Toluene	0.127	0.0050	"	0.150		84.7	61-134			
Ethylbenzene	0.143	0.0050	"	0.150		95.4	74-139			
m,p-Xylene	0.291	0.010	"	0.300		96.9	73-137			
o-Xylene	0.147	0.0050	"	0.150		97.7	73-141			
Xylenes (total)	0.437	0.0050	"				30-150			
Gasoline Range Hydrocarbons	15.0	0.50	"				30-150			
Surrogate: 1,2-Dichloroethane-d4	0.0412		"	0.0400		103	23-173			
Surrogate: Toluene-d8	0.0338		"	0.0400		84.4	20-170			
Surrogate: 4-Bromofluorobenzene	0.0392		"	0.0400		98.0	21-167			

Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Colby Sterling

Reported:
03/15/18 11:22

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 1803100 - EPA 5030 Soil MS

Matrix Spike (1803100-MS1)

Source: 1803090-02

Prepared & Analyzed: 03/07/18

Benzene	0.113	0.0020	mg/kg	0.150	ND	75.1	30-131			
Toluene	0.103	0.0050	"	0.150	ND	68.5	30-134			
Ethylbenzene	0.105	0.0050	"	0.150	ND	70.2	22-153			
m,p-Xylene	0.205	0.010	"	0.300	ND	68.2	10-159			
o-Xylene	0.110	0.0050	"	0.150	ND	73.2	31-151			
Xylenes (total)	0.314	0.0050	"		ND		30-150			
Gasoline Range Hydrocarbons	9.82	0.50	"		ND		30-150			
Surrogate: 1,2-Dichloroethane-d4	0.0408		"	0.0400		102	23-173			
Surrogate: Toluene-d8	0.0349		"	0.0400		87.2	20-170			
Surrogate: 4-Bromofluorobenzene	0.0403		"	0.0400		101	21-167			

Matrix Spike Dup (1803100-MSD1)

Source: 1803090-02

Prepared & Analyzed: 03/07/18

Benzene	0.126	0.0020	mg/kg	0.150	ND	84.2	30-131	11.3	34	
Toluene	0.152	0.0050	"	0.150	ND	102	30-134	38.9	30	QM-07
Ethylbenzene	0.117	0.0050	"	0.150	ND	78.2	22-153	10.7	24	
m,p-Xylene	0.227	0.010	"	0.300	ND	75.6	10-159	10.2	68	
o-Xylene	0.121	0.0050	"	0.150	ND	80.6	31-151	9.63	38	
Xylenes (total)	0.348	0.0050	"		ND		30-150	10.0	20	
Gasoline Range Hydrocarbons	12.9	0.50	"		ND		30-150	27.2	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.0420		"	0.0400		105	23-173			
Surrogate: Toluene-d8	0.0466		"	0.0400		117	20-170			
Surrogate: 4-Bromofluorobenzene	0.0362		"	0.0400		90.6	21-167			

Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Colby Sterling

Reported:
03/15/18 11:22

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

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

Batch 1803135 - General Preparation

Blank (1803135-BLK1)

Prepared: 03/09/18 Analyzed: 03/14/18

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

LCS (1803135-BS1)

Prepared: 03/09/18 Analyzed: 03/14/18

Calcium	417	10.0	mg/kg wet	500	83.4	82.9-118
Magnesium	479	5.00	"	500	95.8	77.1-123
Sodium	474	5.00	"	500	94.8	71-129

Duplicate (1803135-DUP1)

Source: 1803065-24

Prepared: 03/09/18 Analyzed: 03/14/18

Calcium	1470	12.5	mg/kg dry	1630	10.7	200
Magnesium	183	6.25	"	235	25.1	200
Sodium	1130	6.25	"	1240	9.38	200

Matrix Spike (1803135-MS1)

Source: 1803065-24

Prepared: 03/09/18 Analyzed: 03/14/18

Calcium	2200	12.5	mg/kg dry	625	1630	90.2	75-125
Magnesium	759	6.25	"	625	235	83.8	75-125
Sodium	1720	6.25	"	625	1240	77.5	75-125

Matrix Spike Dup (1803135-MSD1)

Source: 1803065-24

Prepared: 03/09/18 Analyzed: 03/14/18

Calcium	2220	12.5	mg/kg dry	625	1630	93.9	75-125	1.04	25
Magnesium	771	6.25	"	625	235	85.7	75-125	1.59	25
Sodium	1820	6.25	"	625	1240	92.7	75-125	5.36	25

Batch 1803136 - General Preparation

Blank (1803136-BLK1)

Prepared: 03/09/18 Analyzed: 03/14/18

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

Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Colby Sterling

Reported:
03/15/18 11:22

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

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

Batch 1803136 - General Preparation

LCS (1803136-BS1)

Prepared: 03/09/18 Analyzed: 03/14/18

Calcium	437	10.0	mg/kg wet	500		87.3	82.9-118			
Magnesium	423	5.00	"	500		84.7	77.1-123			
Sodium	415	5.00	"	500		83.0	71-129			

Duplicate (1803136-DUP1)

Source: 1803065-01

Prepared: 03/09/18 Analyzed: 03/14/18

Calcium	3070	12.7	mg/kg dry		3390			10.2	200	
Magnesium	413	6.35	"		491			17.2	200	
Sodium	3020	6.35	"		3320			9.42	200	

Matrix Spike (1803136-MS1)

Source: 1803065-01

Prepared: 03/09/18 Analyzed: 03/14/18

Calcium	3880	12.7	mg/kg dry	635	3390	77.0	75-125			
Magnesium	1220	6.35	"	635	491	115	75-125			
Sodium	3910	6.35	"	635	3320	93.0	75-125			

Matrix Spike Dup (1803136-MSD1)

Source: 1803065-01

Prepared: 03/09/18 Analyzed: 03/14/18

Calcium	3920	12.7	mg/kg dry	635	3390	82.9	75-125	0.962	25	
Magnesium	1230	6.35	"	635	491	117	75-125	1.21	25	
Sodium	3810	6.35	"	635	3320	77.1	75-125	2.62	25	

Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Colby Sterling

Reported:
03/15/18 11:22

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 1803123 - General Preparation

LCS (1803123-BS1) Prepared: 03/08/18 Analyzed: 03/09/18

pH	9.14	0.100	pH Units	9.16	99.8	95-105
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Duplicate (1803123-DUP1) Source: 1803065-01 Prepared: 03/08/18 Analyzed: 03/09/18

pH	7.91	0.100	pH Units	7.98	0.881	20
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Batch 1803129 - General Preparation

LCS (1803129-BS1) Prepared & Analyzed: 03/09/18

pH	9.15	0.100	pH Units	9.16	99.9	95-105
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Duplicate (1803129-DUP1) Source: 1803110-02 Prepared & Analyzed: 03/09/18

pH	8.18	0.100	pH Units	8.22	0.488	20
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Batch 1803137 - General Preparation

Duplicate (1803137-DUP1) Source: 1803110-02 Prepared: 03/09/18 Analyzed: 03/13/18

% Solids	88.1	%	80.5	8.98	20
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Duplicate (1803137-DUP2) Source: 1803065-01 Prepared: 03/09/18 Analyzed: 03/13/18

% Solids	75.3	%	78.8	4.51	20
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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: Razor 25B
Project Number: 701530.107.02
Project Manager: Colby Sterling

Reported:
03/15/18 11:22

Specific Conductance by EPA120.1 - Quality Control
Summit Scientific

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

Batch 1803122 - General Preparation

Blank (1803122-BLK1)

Prepared: 03/08/18 Analyzed: 03/09/18

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (1803122-BS1)

Prepared: 03/08/18 Analyzed: 03/09/18

Specific Conductance (EC) 0.750 0.0100 mmhos/cm 0.750 99.9 90-110

Duplicate (1803122-DUP1)

Source: 1803065-01

Prepared: 03/08/18 Analyzed: 03/13/18

Specific Conductance (EC) 11.7 0.0100 mmhos/cm 11.7 0.213 20

Batch 1803127 - General Preparation

Blank (1803127-BLK1)

Prepared: 03/09/18 Analyzed: 03/13/18

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (1803127-BS1)

Prepared: 03/09/18 Analyzed: 03/13/18

Specific Conductance (EC) 0.750 0.0100 mmhos/cm 0.750 100 90-110

Duplicate (1803127-DUP1)

Source: 1803110-02

Prepared: 03/09/18 Analyzed: 03/13/18

Specific Conductance (EC) 0.574 0.0100 mmhos/cm 0.575 0.261 20

Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Colby Sterling

Reported:
03/15/18 11:22

Notes and Definitions

S-02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
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

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

March 30, 2018

Jennifer Galles
Talon/LPE
1811 E Mulberry
Ft Collins, CO 80524
RE: Razor 25B

Enclosed are the results of analyses for samples received by Summit Scientific on 03/22/18 15:30. 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', written in a cursive style.

Paul Shrewsbury For Ben Shrewsbury
Laboratory Manager



Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Jennifer Galles

Reported:
03/30/18 10:24

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH-7@6'	1803291-01	Soil	03/21/18 14:30	03/22/18 15:30
BH-8@3'	1803291-02	Soil	03/21/18 14:35	03/22/18 15:30
BH-9@3'	1803291-03	Soil	03/21/18 14:40	03/22/18 15:30
SS-1@0'	1803291-04	Soil	03/21/18 14:45	03/22/18 15:30
SW-20@1.5'	1803291-05	Soil	03/21/18 14:50	03/22/18 15:30
SW-21@1.5'	1803291-06	Soil	03/21/18 14:55	03/22/18 15:30
SW-22@1.5'	1803291-07	Soil	03/21/18 15:00	03/22/18 15:30
SW-23@1.5'	1803291-08	Soil	03/21/18 15:05	03/22/18 15:30
SW-24@3'	1803291-09	Soil	03/22/18 11:00	03/22/18 15:30
SW-25@3'	1803291-10	Soil	03/22/18 11:05	03/22/18 15:30
SW-26@3'	1803291-11	Soil	03/22/18 11:10	03/22/18 15:30
SW-27@1.5'	1803291-12	Soil	03/22/18 11:15	03/22/18 15:30
SW-28@1.5'	1803291-13	Soil	03/22/18 11:20	03/22/18 15:30
SW-29@1.5'	1803291-14	Soil	03/22/18 11:25	03/22/18 15:30

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.

Summit Scientific

1803291.1

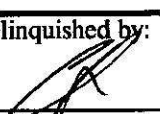
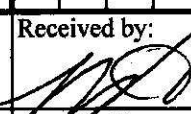
741 Corporate Circle Suite I ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-374-5933 Fax

Page 1 of 2

Client: Talon/LPE - Bill to Whiting
Address: 1811 East Mulberry
City/State/Zip: Fort Collins, CO 80524
Phone: 970-818-5330 Fax:
Sampler Name: Jennifer Galles/ Levi Kirk

Project Manager: Jennifer Galles
E-Mail: jgalles@talonlpe.com and csterling@talonlpe.com
Project Name: Razor 25B
Project Number: 701530.107.02

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative				Matrix				Analyze For:						Special Instructions		
				HCl	HNO ₃	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	BTEX	GRO/DRO	EC	SAR	pH				
BH-7@6'	3/21/2018	14:30	1			x			x				x	x	x	x	x			
BH-8@3'	3/21/2018	14:35	1			x			x				x	x	x	x	x			
BH-9@3'	3/21/2018	14:40	1			x			x				x	x	x	x	x			
SS-1@0'	3/21/2018	14:45	1			x			x				x	x	x	x	x			
SW-20@1.5'	3/21/2018	14:50	1			x			x				x	x	x	x	x			
SW-21@1.5'	3/21/2018	14:55	1			x			x				x	x	x	x	x			
SW-22@1.5'	3/21/2018	15:00	1			x			x				x	x	x	x	x			
SW-23@1.5'	3/21/2018	15:05	1			x			x				x	x	x	x	x			

Relinquished by:  522-10 1530	Date/Time: 3/22/18 1530	Received by:  3/22/18 1530	Date/Time: 3/22/18 1530	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"/>
Relinquished by:	Date/Time:	Received by:	Date/Time:	Sample Integrity: Temperature Upon Receipt: 13.1°C Intact: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Relinquished by:	Date/Time:	Received in Lab by:	Date/Time:	

Summit Scientific

1803291.2

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

Page 2 of 2
AK

Client: Talon/LPE - Bill to Whiting
Address: 1811 East Mulberry
City/State/Zip: Fort Collins, CO 80524
Phone: 970-818-5330 Fax:
Sampler Name: Jennifer Galles/ Levi Kirk

Project Manager: Jennifer Galles
E-Mail: jgalles@talonlpe.com and csterling@talonlpe.com
Project Name: Razor 25B
Project Number: 701530.107.02

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative				Matrix			Analyze For:							Special Instructions						
				HCl	HNO ₃	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	BTEX	GRO/DRO	EC	SAR	pH								
SW-24@3'	3/22/2018	11:00	1			X			X					X	X	X	X	X						
SW-25@3'	3/22/2018	11:05	1			X			X					X	X	X	X	X						
SW-26@3'	3/22/2018	11:10	1			X			X					X	X	X	X	X						
SW-27@1.5'	3/22/2018	11:15	1			X			X					X	X	X	X	X						
SW-28@1.5'	3/22/2018	11:20	1			X			X					X	X	X	X	X						
SW-29@1.5'	3/22/2018	11:25	1			X			X					X	X	X	X	X						
Relinquished by: <i>AK</i> 3-22-18 1530				Date/Time: 3/22/18 1530		Received by: <i>AK</i> 3/22/18 1530				Date/Time: 3/22/18 1530		Turn Around Time (Check)												
Relinquished by:				Date/Time:		Received by:				Date/Time:		Same Day <input type="checkbox"/> 72 Hours <input type="checkbox"/>												
Relinquished by:				Date/Time:		Received by:				Date/Time:		24 Hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/>												
Relinquished by:				Date/Time:		Received in Lab by:				Date/Time:		48 Hours <input type="checkbox"/>												
Relinquished by:				Date/Time:		Received in Lab by:				Date/Time:		Sample Integrity:												
Relinquished by:				Date/Time:		Received in Lab by:				Date/Time:		Temperature Upon Receipt: <i>13.1°C</i>												
Relinquished by:				Date/Time:		Received in Lab by:				Date/Time:		Intact. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No												

Sample Receipt Checklist

1803291

S2 Work Order: _____

Client: Talon/LPE Client Project ID: Razor 25BShipped 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)	13-1				

Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C ⁽¹⁾ ?		✓		
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 ⁽¹⁾ ?	✓			
Was adequate sample volume provided ⁽¹⁾ ?	✓			
If custody seals are present, are they intact ⁽¹⁾ ?			✓	
Are short holding time analytes or samples with HTs due within 48 hours present?			✓	
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	✓			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	✓			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	✓			
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	✓			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.			✓	
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ?			✓	
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⁾ ?			✓	
Record the pH in Comments.				
If dissolved metals are requested, were samples field filtered?			✓	

Additional Comments (if any):

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.Custodian Printed Name: A. J. K. F.Signature or Initials of Custodian: [Signature]Date/Time: 3/22/18 1630



Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Jennifer Galles

Reported:
03/30/18 10:24

BH-7@6'
1803291-01 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 03/21/18 14:30									
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1803273	03/23/18	03/25/18	8015M	

Date Sampled: 03/21/18 14:30									
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		108 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 03/21/18 14:30									
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1803271	03/23/18	03/23/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: 03/21/18 14:30									
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		84.7 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		103 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		85.5 %	21-167		"	"	"	"	

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

Date Sampled: 03/21/18 14:30									
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	4420	12.6	mg/kg dry	1	1803331	03/28/18	03/29/18	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	463	6.31	"	"	"	"	"	"	

Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Jennifer Galles

Reported:
03/30/18 10:24

BH-7@6'
1803291-01 (Soil)

Summit Scientific

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

Sodium	1630	6.31	mg/kg dry	1	1803331	03/28/18	03/29/18	EPA 6020/Mod. USDA60 6(2, 3A)
Sodium Adsorption Ratio	6.23		units	"	1803364	03/30/18	03/30/18	"

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/21/18 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	79.2		%	1	1803318	03/27/18	03/28/18	% calculation	
pH	7.79	0.100	pH Units	"	1803292	03/26/18	03/27/18	EPA 9045	

Specific Conductance by EPA120.1

Date Sampled: **03/21/18 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	7.88	0.0100	mmhos/cm	1	1803350	03/29/18	03/29/18	EPA 120.1	

Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Jennifer Galles

Reported:
03/30/18 10:24

BH-8@3'
1803291-02 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/21/18 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1803273	03/23/18	03/25/18	8015M	

Date Sampled: **03/21/18 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		94.5 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/21/18 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1803271	03/23/18	03/23/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/21/18 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		86.8 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		103 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		85.2 %	21-167		"	"	"	"	

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

Date Sampled: **03/21/18 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	982	11.4	mg/kg dry	1	1803331	03/28/18	03/29/18	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	101	5.71	"	"	"	"	"	"	

Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Jennifer Galles

Reported:
03/30/18 10:24

BH-8@3'
1803291-02 (Soil)

Summit Scientific

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

Sodium	780	5.71	mg/kg dry	1	1803331	03/28/18	03/29/18	EPA 6020/Mod. USDA60 6(2, 3A)
Sodium Adsorption Ratio	6.34		units	"	1803364	03/30/18	03/30/18	"

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/21/18 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.18	0.100	pH Units	1	1803292	03/26/18	03/27/18	EPA 9045	
% Solids	87.5		%	"	1803332	03/28/18	03/29/18	% calculation	

Specific Conductance by EPA120.1

Date Sampled: **03/21/18 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.43	0.0100	mmhos/cm	1	1803350	03/29/18	03/29/18	EPA 120.1	

Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Jennifer Galles

Reported:
03/30/18 10:24

BH-9@3'
1803291-03 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/21/18 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1803273	03/23/18	03/25/18	8015M	

Date Sampled: **03/21/18 14:40**

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

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/21/18 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1803271	03/23/18	03/23/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/21/18 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		83.9 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		104 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		83.3 %	21-167		"	"	"	"	

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

Date Sampled: **03/21/18 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	1460	11.8	mg/kg dry	1	1803331	03/28/18	03/29/18	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	166	5.88	"	"	"	"	"	"	

Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Jennifer Galles

Reported:
03/30/18 10:24

BH-9@3'
1803291-03 (Soil)

Summit Scientific

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

Sodium	1170	5.88 mg/kg dry	1	1803331	03/28/18	03/29/18	EPA 6020/Mod. USDA60 6(2, 3A)
Sodium Adsorption Ratio	7.74	units	"	1803364	03/30/18	03/30/18	"

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/21/18 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.79	0.100	pH Units	1	1803292	03/26/18	03/27/18	EPA 9045	
% Solids	85.1		%	"	1803332	03/28/18	03/29/18	% calculation	

Specific Conductance by EPA120.1

Date Sampled: **03/21/18 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	5.26	0.0100	mmhos/cm	1	1803350	03/29/18	03/29/18	EPA 120.1	

Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Jennifer Galles

Reported:
03/30/18 10:24

SS-1@0'
1803291-04 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/21/18 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1803273	03/23/18	03/25/18	8015M	

Date Sampled: **03/21/18 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		97.0 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/21/18 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1803271	03/23/18	03/23/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/21/18 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		87.4 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		104 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		82.0 %	21-167		"	"	"	"	

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

Date Sampled: **03/21/18 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	2020	11.7	mg/kg dry	1	1803331	03/28/18	03/29/18	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	212	5.85	"	"	"	"	"	"	

Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Jennifer Galles

Reported:
03/30/18 10:24

SS-1@0'
1803291-04 (Soil)

Summit Scientific

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

Sodium	1510	5.85 mg/kg dry	1	1803331	03/28/18	03/29/18	EPA 6020/Mod. USDA60 6(2, 3A)
Sodium Adsorption Ratio	8.54	units	"	1803364	03/30/18	03/30/18	"

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/21/18 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.94	0.100	pH Units	1	1803292	03/26/18	03/27/18	EPA 9045	
% Solids	85.5		%	"	1803332	03/28/18	03/29/18	% calculation	

Specific Conductance by EPA120.1

Date Sampled: **03/21/18 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	5.02	0.0100	mmhos/cm	1	1803350	03/29/18	03/29/18	EPA 120.1	

Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Jennifer Galles

Reported:
03/30/18 10:24

SW-20@1.5'
1803291-05 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/21/18 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1803273	03/23/18	03/25/18	8015M	

Date Sampled: **03/21/18 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		99.4 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/21/18 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1803271	03/23/18	03/23/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/21/18 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		85.4 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		102 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		82.0 %	21-167		"	"	"	"	

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

Date Sampled: **03/21/18 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	2700	11.2	mg/kg dry	1	1803331	03/28/18	03/29/18	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	277	5.60	"	"	"	"	"	"	

Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Jennifer Galles

Reported:
03/30/18 10:24

SW-20@1.5'
1803291-05 (Soil)

Summit Scientific

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

Sodium	1580	5.60 mg/kg dry	1	1803331	03/28/18	03/29/18	EPA 6020/Mod. USDA60 6(2, 3A)
Sodium Adsorption Ratio	7.74	units	"	1803364	03/30/18	03/30/18	"

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/21/18 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.3		%	1	1803332	03/28/18	03/29/18	% calculation	
pH	8.51	0.100	pH Units	"	1803292	03/26/18	03/27/18	EPA 9045	

Specific Conductance by EPA120.1

Date Sampled: **03/21/18 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	4.56	0.0100	mmhos/cm	1	1803350	03/29/18	03/29/18	EPA 120.1	

Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Jennifer Galles

Reported:
03/30/18 10:24

SW-21@1.5'
1803291-06 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/21/18 14:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1803273	03/23/18	03/25/18	8015M	

Date Sampled: **03/21/18 14:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		93.8 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/21/18 14:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1803271	03/23/18	03/23/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/21/18 14:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		84.8 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		102 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		84.5 %	21-167		"	"	"	"	

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

Date Sampled: **03/21/18 14:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	2070	11.7	mg/kg dry	1	1803331	03/28/18	03/29/18	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	246	5.84	"	"	"	"	"	"	

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: Razor 25B
Project Number: 701530.107.02
Project Manager: Jennifer Galles

Reported:
03/30/18 10:24

SW-21@1.5'
1803291-06 (Soil)

Summit Scientific

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

Sodium	545	5.84 mg/kg dry	1	1803331	03/28/18	03/29/18	EPA 6020/Mod. USDA60 6(2, 3A)
Sodium Adsorption Ratio	3.02	units	"	1803364	03/30/18	03/30/18	"

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/21/18 14:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.6		%	1	1803332	03/28/18	03/29/18	% calculation	
pH	7.94	0.100	pH Units	"	1803292	03/26/18	03/27/18	EPA 9045	

Specific Conductance by EPA120.1

Date Sampled: **03/21/18 14:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.80	0.0100	mmhos/cm	1	1803350	03/29/18	03/29/18	EPA 120.1	

Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Jennifer Galles

Reported:
03/30/18 10:24

SW-22@1.5'
1803291-07 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/21/18 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1803273	03/23/18	03/25/18	8015M	

Date Sampled: **03/21/18 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		95.6 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/21/18 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1803271	03/23/18	03/24/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/21/18 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		87.4 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		103 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		83.0 %	21-167		"	"	"	"	

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

Date Sampled: **03/21/18 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	1230	11.2	mg/kg dry	1	1803331	03/28/18	03/29/18	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	147	5.61	"	"	"	"	"	"	

Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Jennifer Galles

Reported:
03/30/18 10:24

SW-22@1.5'
1803291-07 (Soil)

Summit Scientific

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

Sodium	901	5.61 mg/kg dry	1	1803331	03/28/18	03/29/18	EPA 6020/Mod. USDA60 6(2, 3A)
Sodium Adsorption Ratio	6.47	units	"	1803364	03/30/18	03/30/18	"

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/21/18 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.16	0.100	pH Units	1	1803292	03/26/18	03/27/18	EPA 9045	
% Solids	89.1		%	"	1803332	03/28/18	03/29/18	% calculation	

Specific Conductance by EPA120.1

Date Sampled: **03/21/18 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.24	0.0100	mmhos/cm	1	1803350	03/29/18	03/29/18	EPA 120.1	

Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Jennifer Galles

Reported:
03/30/18 10:24

SW-23@1.5'
1803291-08 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/21/18 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1803273	03/23/18	03/25/18	8015M	

Date Sampled: **03/21/18 15:05**

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

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/21/18 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1803271	03/23/18	03/24/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/21/18 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		86.8 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		104 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		82.0 %	21-167		"	"	"	"	

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

Date Sampled: **03/21/18 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	821	11.2	mg/kg dry	1	1803331	03/28/18	03/29/18	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	110	5.61	"	"	"	"	"	"	

Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Jennifer Galles

Reported:
03/30/18 10:24

SW-23@1.5'
1803291-08 (Soil)

Summit Scientific

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

Sodium	684	5.61 mg/kg dry	1	1803331	03/28/18	03/29/18	EPA 6020/Mod. USDA60 6(2, 3A)
Sodium Adsorption Ratio	5.95	units	"	1803364	03/30/18	03/30/18	"

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/21/18 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.83	0.100	pH Units	1	1803292	03/26/18	03/27/18	EPA 9045	
% Solids	89.2		%	"	1803332	03/28/18	03/29/18	% calculation	

Specific Conductance by EPA120.1

Date Sampled: **03/21/18 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.18	0.0100	mmhos/cm	1	1803350	03/29/18	03/29/18	EPA 120.1	

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Jennifer Galles

Reported:
03/30/18 10:24

SW-24@3'
1803291-09 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/22/18 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1803273	03/23/18	03/25/18	8015M	

Date Sampled: **03/22/18 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		90.9 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/22/18 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1803271	03/23/18	03/24/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/22/18 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		83.9 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		104 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		82.5 %	21-167		"	"	"	"	

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

Date Sampled: **03/22/18 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	4890	12.5	mg/kg dry	1	1803331	03/28/18	03/29/18	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	499	6.23	"	"	"	"	"	"	

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Jennifer Galles

Reported:
03/30/18 10:24

SW-24@3'
1803291-09 (Soil)

Summit Scientific

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

Sodium	1900	6.23 mg/kg dry	1	1803331	03/28/18	03/29/18	EPA 6020/Mod. USDA60 6(2, 3A)
Sodium Adsorption Ratio	6.92	units	"	1803364	03/30/18	03/30/18	"

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/22/18 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	80.3		%	1	1803332	03/28/18	03/29/18	% calculation	
pH	7.93	0.100	pH Units	"	1803351	03/29/18	03/29/18	EPA 9045	

Specific Conductance by EPA120.1

Date Sampled: **03/22/18 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	10.8	0.0100	mmhos/cm	1	1803350	03/29/18	03/29/18	EPA 120.1	

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Jennifer Galles

Reported:
03/30/18 10:24

SW-25@3'
1803291-10 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/22/18 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1803273	03/23/18	03/25/18	8015M	

Date Sampled: **03/22/18 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		90.5 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/22/18 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1803271	03/23/18	03/24/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/22/18 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		86.2 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		104 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		82.6 %	21-167		"	"	"	"	

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

Date Sampled: **03/22/18 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	1790	11.3	mg/kg dry	1	1803331	03/28/18	03/29/18	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	255	5.66	"	"	"	"	"	"	

Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Jennifer Galles

Reported:
03/30/18 10:24

SW-25@3'
1803291-10 (Soil)

Summit Scientific

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

Sodium	1690	5.66 mg/kg dry	1	1803331	03/28/18	03/29/18	EPA 6020/Mod. USDA60 6(2, 3A)
Sodium Adsorption Ratio	9.90	units	"	1803364	03/30/18	03/30/18	"

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/22/18 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.91	0.100	pH Units	1	1803351	03/29/18	03/29/18	EPA 9045	
% Solids	88.3		%	"	1803332	03/28/18	03/29/18	% calculation	

Specific Conductance by EPA120.1

Date Sampled: **03/22/18 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	5.62	0.0100	mmhos/cm	1	1803350	03/29/18	03/29/18	EPA 120.1	

Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Jennifer Galles

Reported:
03/30/18 10:24

SW-26@3'
1803291-11 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/22/18 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1803273	03/23/18	03/25/18	8015M	

Date Sampled: **03/22/18 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		70.7 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/22/18 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1803271	03/23/18	03/24/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/22/18 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		84.7 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		102 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		84.6 %	21-167		"	"	"	"	

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

Date Sampled: **03/22/18 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	2220	11.7	mg/kg dry	1	1803331	03/28/18	03/29/18	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	304	5.85	"	"	"	"	"	"	

Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Jennifer Galles

Reported:
03/30/18 10:24

SW-26@3'
1803291-11 (Soil)

Summit Scientific

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

Sodium	1330	5.85 mg/kg dry	1	1803331	03/28/18	03/29/18	EPA 6020/Mod. USDA60 6(2, 3A)
Sodium Adsorption Ratio	7.02	units	"	1803364	03/30/18	03/30/18	"

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/22/18 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.4		%	1	1803332	03/28/18	03/29/18	% calculation	
pH	8.07	0.100	pH Units	"	1803351	03/29/18	03/29/18	EPA 9045	

Specific Conductance by EPA120.1

Date Sampled: **03/22/18 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.67	0.0100	mmhos/cm	1	1803350	03/29/18	03/29/18	EPA 120.1	

Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Jennifer Galles

Reported:
03/30/18 10:24

SW-27@1.5'
1803291-12 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/22/18 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1803273	03/23/18	03/25/18	8015M	

Date Sampled: **03/22/18 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		91.7 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/22/18 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1803271	03/23/18	03/24/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/22/18 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		88.6 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		104 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		85.5 %	21-167		"	"	"	"	

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

Date Sampled: **03/22/18 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	1730	12.4	mg/kg dry	1	1803331	03/28/18	03/29/18	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	254	6.18	"	"	"	"	"	"	

Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Jennifer Galles

Reported:
03/30/18 10:24

SW-27@1.5'
1803291-12 (Soil)

Summit Scientific

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

Sodium	573	6.18 mg/kg dry	1	1803331	03/28/18	03/29/18	EPA 6020/Mod. USDA60 6(2, 3A)
Sodium Adsorption Ratio	3.40	units	"	1803364	03/30/18	03/30/18	"

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/22/18 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	80.9		%	1	1803332	03/28/18	03/29/18	% calculation	
pH	7.88	0.100	pH Units	"	1803351	03/29/18	03/29/18	EPA 9045	

Specific Conductance by EPA120.1

Date Sampled: **03/22/18 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.73	0.0100	mmhos/cm	1	1803350	03/29/18	03/29/18	EPA 120.1	

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: Razor 25B
Project Number: 701530.107.02
Project Manager: Jennifer Galles

Reported:
03/30/18 10:24

SW-28@1.5'
1803291-13 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/22/18 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1803273	03/23/18	03/25/18	8015M	

Date Sampled: **03/22/18 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		93.0 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/22/18 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1803271	03/23/18	03/24/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/22/18 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		85.2 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		102 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		83.2 %	21-167		"	"	"	"	

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

Date Sampled: **03/22/18 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	2630	12.5	mg/kg dry	1	1803331	03/28/18	03/29/18	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	390	6.27	"	"	"	"	"	"	

Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Jennifer Galles

Reported:
03/30/18 10:24

SW-28@1.5'
1803291-13 (Soil)

Summit Scientific

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

Sodium	400	6.27 mg/kg dry	1	1803331	03/28/18	03/29/18	EPA 6020/Mod. USDA60 6(2, 3A)
Sodium Adsorption Ratio	1.93	units	"	1803364	03/30/18	03/30/18	"

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/22/18 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.93	0.100	pH Units	1	1803351	03/29/18	03/29/18	EPA 9045	
% Solids	79.7		%	"	1803332	03/28/18	03/29/18	% calculation	

Specific Conductance by EPA120.1

Date Sampled: **03/22/18 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.78	0.0100	mmhos/cm	1	1803350	03/29/18	03/29/18	EPA 120.1	

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: Razor 25B
Project Number: 701530.107.02
Project Manager: Jennifer Galles

Reported:
03/30/18 10:24

SW-29@1.5'
1803291-14 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/22/18 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1803273	03/23/18	03/25/18	8015M	

Date Sampled: **03/22/18 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		93.7 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/22/18 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1803271	03/23/18	03/24/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/22/18 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		85.6 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		105 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		82.1 %	21-167		"	"	"	"	

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

Date Sampled: **03/22/18 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	3150	12.0	mg/kg dry	1	1803331	03/28/18	03/29/18	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	379	6.02	"	"	"	"	"	"	

Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Jennifer Galles

Reported:
03/30/18 10:24

SW-29@1.5'
1803291-14 (Soil)

Summit Scientific

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

Sodium	3780	6.02	mg/kg dry	1	1803331	03/28/18	03/29/18	EPA 6020/Mod. USDA60 6(2, 3A)
Sodium Adsorption Ratio	16.9		units	"	1803364	03/30/18	03/30/18	"

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/22/18 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.52	0.100	pH Units	1	1803351	03/29/18	03/29/18	EPA 9045	
% Solids	83.0		%	"	1803332	03/28/18	03/29/18	% calculation	

Specific Conductance by EPA120.1

Date Sampled: **03/22/18 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	6.48	0.0100	mmhos/cm	1	1803350	03/29/18	03/29/18	EPA 120.1	

Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Jennifer Galles

Reported:
03/30/18 10:24

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 1803273 - EPA 3550A

Blank (1803273-BLK1)

Prepared: 03/23/18 Analyzed: 03/24/18

C10-C28 (DRO) ND 50 mg/kg

Surrogate: o-Terphenyl 12.7 " 12.5 102 30-150

LCS (1803273-BS1)

Prepared: 03/23/18 Analyzed: 03/24/18

C10-C28 (DRO) 431 50 mg/kg 499 86.4 73-134

Surrogate: o-Terphenyl 14.6 " 12.5 117 30-150

Matrix Spike (1803273-MS1)

Source: 1803283-01

Prepared: 03/23/18 Analyzed: 03/24/18

C10-C28 (DRO) 460 50 mg/kg 499 22.2 87.8 50-148

Surrogate: o-Terphenyl 14.9 " 12.5 119 30-150

Matrix Spike Dup (1803273-MSD1)

Source: 1803283-01

Prepared: 03/23/18 Analyzed: 03/24/18

C10-C28 (DRO) 447 50 mg/kg 499 22.2 85.1 50-148 2.87 20

Surrogate: o-Terphenyl 13.7 " 12.5 110 30-150

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: Razor 25B
Project Number: 701530.107.02
Project Manager: Jennifer Galles

Reported:
03/30/18 10:24

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 1803271 - EPA 5030 Soil MS

Blank (1803271-BLK1)

Prepared & Analyzed: 03/23/18

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	0.0288		"	0.0400		72.0	23-173			
Surrogate: Toluene-d8	0.0412		"	0.0400		103	20-170			
Surrogate: 4-Bromofluorobenzene	0.0327		"	0.0400		81.7	21-167			

LCS (1803271-BS1)

Prepared & Analyzed: 03/23/18

Benzene	0.0952	0.0020	mg/kg	0.100		95.2	58-130			
Toluene	0.0988	0.0050	"	0.100		98.8	61-134			
Ethylbenzene	0.109	0.0050	"	0.0992		110	74-139			
m,p-Xylene	0.212	0.010	"	0.200		106	73-137			
o-Xylene	0.107	0.0050	"	0.0980		109	73-141			
Xylenes (total)	0.318	0.0050	"				30-150			
Gasoline Range Hydrocarbons	2.31	0.50	"				30-150			
Surrogate: 1,2-Dichloroethane-d4	0.0322		"	0.0400		80.4	23-173			
Surrogate: Toluene-d8	0.0417		"	0.0400		104	20-170			
Surrogate: 4-Bromofluorobenzene	0.0328		"	0.0400		82.0	21-167			

Matrix Spike (1803271-MS1)

Source: 1803283-01

Prepared & Analyzed: 03/23/18

Benzene	0.0840	0.0020	mg/kg	0.100	ND	84.0	30-131			
Toluene	0.0864	0.0050	"	0.100	ND	86.4	30-134			
Ethylbenzene	0.0929	0.0050	"	0.0992	ND	93.7	22-153			
m,p-Xylene	0.182	0.010	"	0.200	ND	91.0	10-159			
o-Xylene	0.0905	0.0050	"	0.0980	ND	92.3	31-151			
Xylenes (total)	0.272	0.0050	"		ND		30-150			
Gasoline Range Hydrocarbons	1.93	0.50	"		ND		30-150			
Surrogate: 1,2-Dichloroethane-d4	0.0334		"	0.0400		83.5	23-173			
Surrogate: Toluene-d8	0.0427		"	0.0400		107	20-170			
Surrogate: 4-Bromofluorobenzene	0.0328		"	0.0400		81.9	21-167			

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: Razor 25B
Project Number: 701530.107.02
Project Manager: Jennifer Galles

Reported:
03/30/18 10:24

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

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

Batch 1803331 - General Preparation

Blank (1803331-BLK1)

Prepared: 03/28/18 Analyzed: 03/29/18

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

LCS (1803331-BS1)

Prepared: 03/28/18 Analyzed: 03/29/18

Calcium	450	10.0	mg/kg wet	500	90.1	82.9-118
Magnesium	465	5.00	"	500	93.1	77.1-123
Sodium	388	5.00	"	500	77.6	71-129

Duplicate (1803331-DUP1)

Source: 1803291-01

Prepared: 03/28/18 Analyzed: 03/29/18

Calcium	4410	12.6	mg/kg dry	4420	0.213	200
Magnesium	460	6.31	"	463	0.599	200
Sodium	1620	6.31	"	1630	0.781	200

Matrix Spike (1803331-MS1)

Source: 1803291-01

Prepared: 03/28/18 Analyzed: 03/29/18

Calcium	5000	12.6	mg/kg dry	631	4420	92.7	75-125
Magnesium	1090	6.31	"	631	463	99.2	75-125
Sodium	2250	6.31	"	631	1630	98.7	75-125

Matrix Spike Dup (1803331-MSD1)

Source: 1803291-01

Prepared: 03/28/18 Analyzed: 03/29/18

Calcium	4970	12.6	mg/kg dry	631	4420	87.7	75-125	0.631	25
Magnesium	1110	6.31	"	631	463	103	75-125	1.95	25
Sodium	2260	6.31	"	631	1630	99.7	75-125	0.283	25

Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Jennifer Galles

Reported:
03/30/18 10:24

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 1803292 - General Preparation

LCS (1803292-BS1) Prepared: 03/26/18 Analyzed: 03/27/18

pH	9.14	0.100	pH Units	9.16	99.8	95-105
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Duplicate (1803292-DUP1) Source: 1803230-01 Prepared: 03/26/18 Analyzed: 03/27/18

pH	8.32	0.100	pH Units	8.36	0.480	20
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Batch 1803318 - General Preparation

Duplicate (1803318-DUP1) Source: 1803244-01 Prepared: 03/27/18 Analyzed: 03/28/18

% Solids	75.4		%	71.0	6.01	20
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Batch 1803332 - General Preparation

Duplicate (1803332-DUP1) Source: 1803291-02 Prepared: 03/28/18 Analyzed: 03/29/18

% Solids	87.0		%	87.5	0.573	20
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Batch 1803351 - General Preparation

LCS (1803351-BS1) Prepared & Analyzed: 03/29/18

pH	9.14	0.100	pH Units	9.16	99.8	95-105
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Duplicate (1803351-DUP1) Source: 1803283-01 Prepared & Analyzed: 03/29/18

pH	8.30	0.100	pH Units	8.30	0.00	20
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Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Jennifer Galles

Reported:
03/30/18 10:24

Specific Conductance by EPA120.1 - Quality Control
Summit Scientific

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

Batch 1803350 - General Preparation

Blank (1803350-BLK1)

Prepared & Analyzed: 03/29/18

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (1803350-BS1)

Prepared & Analyzed: 03/29/18

Specific Conductance (EC) 0.750 0.0100 mmhos/cm 0.750 99.9 90-110

Duplicate (1803350-DUP1)

Source: 1803283-01

Prepared & Analyzed: 03/29/18

Specific Conductance (EC) 0.840 0.0100 mmhos/cm 0.839 0.0596 20

Summit Scientific

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Talon/LPE
1811 E Mulberry
Ft Collins CO, 80524

Project: Razor 25B

Project Number: 701530.107.02
Project Manager: Jennifer Galles

Reported:
03/30/18 10:24

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

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

April 17, 2018

Jennifer Galles
Talon/LPE
1811 East Mulberry
Fort Collins, CO 80525
RE: Razor 25B

Enclosed are the results of analyses for samples received by Summit Scientific on 04/04/18 14:30. 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 For Ben Shrewsbury
President / Laboratory Director



Talon/LPE
1811 East Mulberry
Fort Collins CO, 80525

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Jennifer Galles

Reported:
04/17/18 16:23

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SW-30@3'	1804049-01	Soil	04/04/18 10:20	04/04/18 14:30
SW-31@3'	1804049-02	Soil	04/04/18 10:22	04/04/18 14:30
SW-32@3'	1804049-03	Soil	04/04/18 10:24	04/04/18 14:30
SW-33@3'	1804049-04	Soil	04/04/18 10:26	04/04/18 14:30
SW-34@3'	1804049-05	Soil	04/04/18 10:28	04/04/18 14:30
SW-35@3'	1804049-06	Soil	04/04/18 10:30	04/04/18 14:30
SW-36@3'	1804049-07	Soil	04/04/18 10:32	04/04/18 14:30
SW-37@3'	1804049-08	Soil	04/04/18 10:34	04/04/18 14:30
SW-38@3'	1804049-09	Soil	04/04/18 10:36	04/04/18 14:30
SW-39@3'	1804049-10	Soil	04/04/18 10:38	04/04/18 14:30

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.

Summit Scientific

1804049

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

Page 1 of 1

Client: Talon/LPE - Bill to Whiting
Address: 1811 East Mulberry
City/State/Zip: Fort Collins, CO 80524
Phone: 970-818-5330 Fax:
Sampler Name: Jason Leverton and Levi Kirk

Project Manager: Jennifer Galles
E-Mail: jgalles@talonlpe.com and jleverton@talonlpe
Project Name: Razor 25B
Project Number: 701530.107.02

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative				Matrix			Analyze For:										Special Instructions			
				HCl	HNO ₃	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	EC	SAR	PH										
SW-30@3'	4/4/2018	10:20	1			x			x				x											
SW-31@3'	4/4/2018	10:22	1			x			x				x											
SW-32@3'	4/4/2018	10:24	1			x			x				x											
SW-33@3'	4/4/2018	10:26	1			x			x				x	x	x									
SW-34@3'	4/4/2018	10:28	1			x			x				x	x	x									
SW-35@3'	4/4/2018	10:30	1			x			x				x	x	x									
SS SW-36@3'	4/4/2018	10:32	1			x			x				x											
SW-37@3'	4/4/2018	10:34	1			x			x				x											
SW-38@3'	4/4/2018	10:36	1			x			x				x											
SW-39@3'	4/4/2018	10:38	1			x			x				x											

Relinquished by: <i>[Signature]</i>	Date/Time: 4-4-18 4:30	Received by: <i>[Signature]</i>	Date/Time: 4-4-18 14:30	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"/> Sample Integrity: Temperature Upon Receipt: 37 Intact: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Relinquished by:	Date/Time:	Received by:	Date/Time:	
Relinquished by:	Date/Time:	Received in Lab by:	Date/Time:	

Sample Receipt Checklist

S2 Work Order: 1804049

Client: Talon

Client Project ID: Razor 25B

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

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

Temp (°C)	<u>3.7</u>
-----------	------------

Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C ⁽¹⁾ ?	<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 ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If custody seals are present, are they intact ⁽¹⁾ ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are short holding time analytes or samples 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 ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Note the type of preservative in the Comments column – HCL, H2SO4, NaOH, HNO3, etc.			<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Record the pH in Comments.			<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):				

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

Muri
Custodian Printed Name or Initials

[Signature]
Signature of Custodian

16:10
Date/Time



Talon/LPE
1811 East Mulberry
Fort Collins CO, 80525

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Jennifer Galles

Reported:
04/17/18 16:23

SW-30@3'
1804049-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	2.41	0.0100		mmhos/cm	1	1804069	04/13/18	04/13/18	EPA 120.1	

Summit Scientific

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Talon/LPE
1811 East Mulberry
Fort Collins CO, 80525

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Jennifer Galles

Reported:
04/17/18 16:23

SW-31@3'
1804049-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/04/18 10:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.47	0.0100	mmhos/cm	1	1804069	04/13/18	04/13/18	EPA 120.1	

Summit Scientific

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Talon/LPE
1811 East Mulberry
Fort Collins CO, 80525

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Jennifer Galles

Reported:
04/17/18 16:23

SW-32@3'
1804049-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/04/18 10:24**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	7.28	0.0100	mmhos/cm	1	1804069	04/13/18	04/13/18	EPA 120.1	

Summit Scientific

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Talon/LPE
1811 East Mulberry
Fort Collins CO, 80525

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Jennifer Galles

Reported:
04/17/18 16:23

SW-33@3'
1804049-04 (Soil)

Summit Scientific

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

Date Sampled: **04/04/18 10:26**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	2240	2.50	mg/kg dry	1	1804058	04/05/18	04/06/18	EPA 6020B	
Magnesium	298	1.00	"	"	"	"	"	"	
Sodium	1730	5.00	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/04/18 10:26**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	9.12	0.100	units	1	1804077	04/14/18	04/14/18	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/04/18 10:26**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.63	0.0100	mmhos/cm	1	1804069	04/13/18	04/13/18	EPA 120.1	
% Solids	91.9		%	"	1804075	04/07/18	04/14/18	Calculation	
pH	8.4		pH Units	"	1804076	04/06/18	04/14/18	EPA 9045D	

Summit Scientific

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Talon/LPE
1811 East Mulberry
Fort Collins CO, 80525

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Jennifer Galles

Reported:
04/17/18 16:23

SW-34@3'
1804049-05 (Soil)

Summit Scientific

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

Date Sampled: **04/04/18 10:28**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	5080	2.50	mg/kg dry	1	1804058	04/05/18	04/06/18	EPA 6020B	
Magnesium	503	1.00	"	"	"	"	"	"	
Sodium	1280	5.00	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/04/18 10:28**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.59	0.100	units	1	1804077	04/14/18	04/14/18	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/04/18 10:28**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.63	0.0100	mmhos/cm	1	1804069	04/13/18	04/13/18	EPA 120.1	
% Solids	90.3		%	"	1804075	04/07/18	04/14/18	Calculation	
pH	8.7		pH Units	"	1804076	04/06/18	04/14/18	EPA 9045D	

Summit Scientific

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Talon/LPE
1811 East Mulberry
Fort Collins CO, 80525

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Jennifer Galles

Reported:
04/17/18 16:23

SW-35@3'
1804049-06 (Soil)

Summit Scientific

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

Date Sampled: **04/04/18 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	5950	2.50	mg/kg dry	1	1804058	04/05/18	04/06/18	EPA 6020B	
Magnesium	504	1.00	"	"	"	"	"	"	
Sodium	8580	5.00	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/04/18 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	28.7	0.100	units	1	1804077	04/14/18	04/14/18	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/04/18 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	7.55	0.0100	mmhos/cm	1	1804069	04/13/18	04/13/18	EPA 120.1	
% Solids	89.9		%	"	1804075	04/07/18	04/14/18	Calculation	
pH	9.5		pH Units	"	1804076	04/06/18	04/14/18	EPA 9045D	

Summit Scientific

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Talon/LPE
1811 East Mulberry
Fort Collins CO, 80525

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Jennifer Galles

Reported:
04/17/18 16:23

SW-36@3'
1804049-07 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/04/18 10:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	7.54	0.0100	mmhos/cm	1	1804069	04/13/18	04/13/18	EPA 120.1	

Summit Scientific

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Talon/LPE
1811 East Mulberry
Fort Collins CO, 80525

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Jennifer Galles

Reported:
04/17/18 16:23

SW-37@3'
1804049-08 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/04/18 10:34**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.596	0.0100	mmhos/cm	1	1804069	04/13/18	04/13/18	EPA 120.1	

Summit Scientific

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Talon/LPE
1811 East Mulberry
Fort Collins CO, 80525

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Jennifer Galles

Reported:
04/17/18 16:23

SW-38@3'
1804049-09 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/04/18 10:36**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.778	0.0100	mmhos/cm	1	1804069	04/13/18	04/13/18	EPA 120.1	

Summit Scientific

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Talon/LPE
1811 East Mulberry
Fort Collins CO, 80525

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Jennifer Galles

Reported:
04/17/18 16:23

SW-39@3'
1804049-10 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/04/18 10:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.562	0.0100	mmhos/cm	1	1804069	04/13/18	04/13/18	EPA 120.1	

Summit Scientific

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Talon/LPE
1811 East Mulberry
Fort Collins CO, 80525

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Jennifer Galles

Reported:
04/17/18 16:23

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

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

Batch 1804058 - General Preparation

Blank (1804058-BLK1)

Prepared & Analyzed: 04/05/18

Calcium	ND	2.50	mg/kg wet
Magnesium	ND	1.00	"
Sodium	ND	5.00	"

LCS (1804058-BS1)

Prepared & Analyzed: 04/05/18

Calcium	980	2.50	mg/kg wet	1000	98.0	70-130
Magnesium	1080	1.00	"	1000	108	70-130
Sodium	1140	5.00	"	1000	114	70-130

Duplicate (1804058-DUP1)

Source: 1804035-01

Prepared & Analyzed: 04/05/18

Calcium	4590	2.50	mg/kg dry	3020	41.2	200
Magnesium	1360	1.00	"	981	32.7	200
Sodium	1820	5.00	"	1370	28.1	200

Matrix Spike (1804058-MS1)

Source: 1804035-01

Prepared & Analyzed: 04/05/18

Calcium	4320	2.50	mg/kg dry	1160	3020	113	70-130
Magnesium	2190	1.00	"	1160	981	104	70-130
Sodium	2510	5.00	"	1160	1370	98.5	70-130

Matrix Spike Dup (1804058-MSD1)

Source: 1804035-01

Prepared: 04/13/18 Analyzed: 04/16/18

Calcium	4160	2.50	mg/kg dry	1160	3020	98.5	70-130	3.87	25
Magnesium	1990	1.00	"	1160	981	87.1	70-130	9.64	25
Sodium	2310	5.00	"	1160	1370	81.2	70-130	8.29	25

Summit Scientific

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Talon/LPE
1811 East Mulberry
Fort Collins CO, 80525

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Jennifer Galles

Reported:
04/17/18 16:23

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 1804069 - General Preparation

Blank (1804069-BLK1)

Prepared & Analyzed: 04/13/18

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (1804069-BS1)

Prepared & Analyzed: 04/13/18

Specific Conductance (EC) 0.766 0.0100 mmhos/cm 80-120

Duplicate (1804069-DUP1)

Source: 1804049-01

Prepared & Analyzed: 04/13/18

Specific Conductance (EC) 2.25 0.0100 mmhos/cm 2.41 6.52 20

Batch 1804075 - General Preparation

Duplicate (1804075-DUP1)

Source: 1804004-02

Prepared: 04/07/18 Analyzed: 04/14/18

% Solids 89.2 % 89.8 0.670 20

Batch 1804076 - General Preparation

Duplicate (1804076-DUP1)

Source: 1804004-02

Prepared: 04/06/18 Analyzed: 04/14/18

pH 8.3 pH Units 8.2 0.484 20

Summit Scientific

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Talon/LPE
1811 East Mulberry
Fort Collins CO, 80525

Project: Razor 25B
Project Number: 701530.107.02
Project Manager: Jennifer Galles

Reported:
04/17/18 16:23

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