



October 20, 2016

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

**RE: Confirmation Sampling and Soil Remediation
FTC Battery
Larimer County, Colorado
Project # 702108.001.01**

Mr. Giltner:

From March 28, 2016, to May 4, 2016, Talon/LPE conducted confirmation soil sampling during the excavation of past oil releases at the FTC Battery location (site) in Larimer County, Colorado.. The purpose of the sampling event was to ensure that all hydrocarbon impacted soil had been removed to the extent required by the Colorado Oil and Gas Conservation Commission (COGCC). The site is identified by the COGCC as Spill/Release Point IDs 441826 and 441871, and furthermore as Form 27 Remediation Project Number 9188.

On March 28, 2016, two (2) grab samples (SW-E @ 10' and SW-S @ 8') were collected in the excavation. 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, and for Benzene, Toluene, Ethyl-benzene, and Xylenes (BTEX) via method EPA8260B at Summit Scientific (Summit) in Golden, Colorado. Both samples were reported to exhibit TPH and BTEX concentrations below COGCC Table 910-1 concentration levels. A soil concentration map is presented in Figure 2 and a breakdown of the confirmation sampling soil analytical data is presented in Table 1.

As the excavation progressed, Talon/LPE collected two (2) additional samples on April 14, 2016. These samples, SW-SW @ 20' and SW-W @ 10', were analyzed for TPH and BTEX at Summit. Both samples were reported to exhibit TPH and BTEX concentrations below COGCC Table 910-1 concentration levels.



On April 21 & 25, 2016, Talon/LPE collected samples SW-NW @ 20' and SW-SE @ 22', respectively. Both samples were analyzed for TPH and BTEX at Summit and were reported to have non-detectable concentrations.

On April 27, 2016, a sample (BH-1 @ 25') was collected in the center of the excavation floor directly above the water table. This sample was analyzed for TPH and BTEX and Summit and was reported to have a benzene and TPH concentration above COGCC Table 910-1 concentrations. The toluene, ethyl-benzene, and xylenes concentrations were below COGCC Table 910-1 concentrations. Due to the elevated benzene and TPH concentrations on the excavation floor, the decision was made to excavate all soils within the excavation above the water table.

As the excavation progressed to the north, Talon/LPE collected two (2) samples on April 28, 2016. These samples, SW-NE @ 23' and SW-N @ 21', were analyzed for TPH and BTEX at Summit. Sample SW-NE @ 23' was reported to exhibit TPH and BTEX concentrations below COGCC Table 910-1 concentrations. Sample SW-N @ 21' was reported to exhibit BTEX concentrations below COGCC Table 910-1, but its TPH concentration was above COGCC Table 910-1.

Based on the collected analytical data from sample SW-N @ 21', further excavation was performed on the north end of the excavation. On May 4, 2016, Talon/LPE collected an additional confirmation sample, SW-N-2 @ 21', and had it analyzed for TPH and BTEX at Summit. This sample exhibited TPH and BTEX concentrations below COGCC Table 910-1.

From May 12, 2016, to July 21, 2016, Talon/LPE utilized a Royer Model 364 soil shredding machine to remediate the four thousand seven hundred (4,700) cubic yards of hydrocarbon impacted soil from the excavation. The Royer Model 364 soil shredding machine pulverized the impacted soil which increased the surface area of the soil and allowed maximum volatilization of the hydrocarbons. Additionally, while shredding the impacted soils, Talon/LPE applied a 10-15% hydrogen peroxide solution to chemically oxidize the hydrocarbons.

Throughout the remediation process, Talon/LPE collected composite confirmation samples (A1 through A21 and B1 through B26) from the remediated stockpiles on a frequency of one (1) sample per one hundred (100) cubic yards. The first round of samples collected (A1 through A11), were analyzed for TPH and BTEX at Summit. All BTEX concentrations for these samples were reported as non-detectable and all GRO concentrations were reported at less than 2 mg/kg. Based on this data,



Talon/LPE requested future analysis on the remediated stockpiles be limited to only DRO. The COGCC granted approval for this request in an email dated June 8, 2016. Some stockpile samples obtained did not meet the COGCC threshold of 500 mg/kg for TPH after initially sampling. In these instances, the stockpiles were retreated with the hydrogen peroxide solution and turned with a backhoe to allow further volatilization and oxidation. All forty seven (47) stockpiles ultimately exhibited DRO results below 500 mg/kg. A breakdown of the remediated soil analytical data is presented in Table 2.

Based upon the collected analytical data and actions conducted, Talon/LPE believes that the hydrocarbon impacted soils have been removed and remediated to the extent required by the COGCC and no further corrective action is necessary. If you have any questions or comments, please do not hesitate to call me at (970) 818-5330.

Respectfully Submitted,

A handwritten signature in blue ink that reads "Colby Sterling". The signature is written in a cursive style with a blue ink color.

Colby Sterling
District Manager
Talon/LPE



Date: 08/18/2016

Scale: 1" = 50'

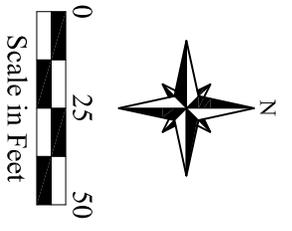
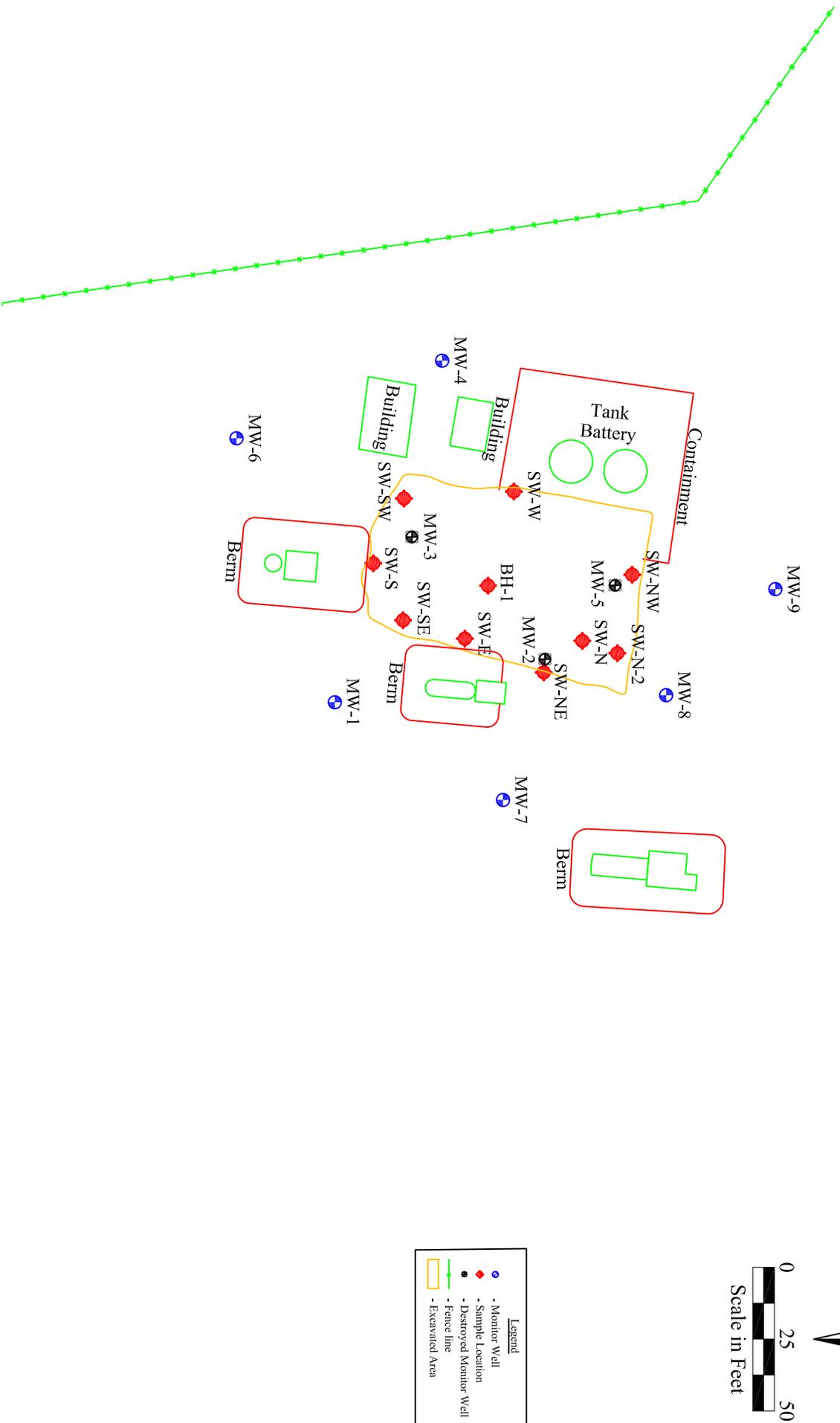
Drawn By: TJS

FTC Battery

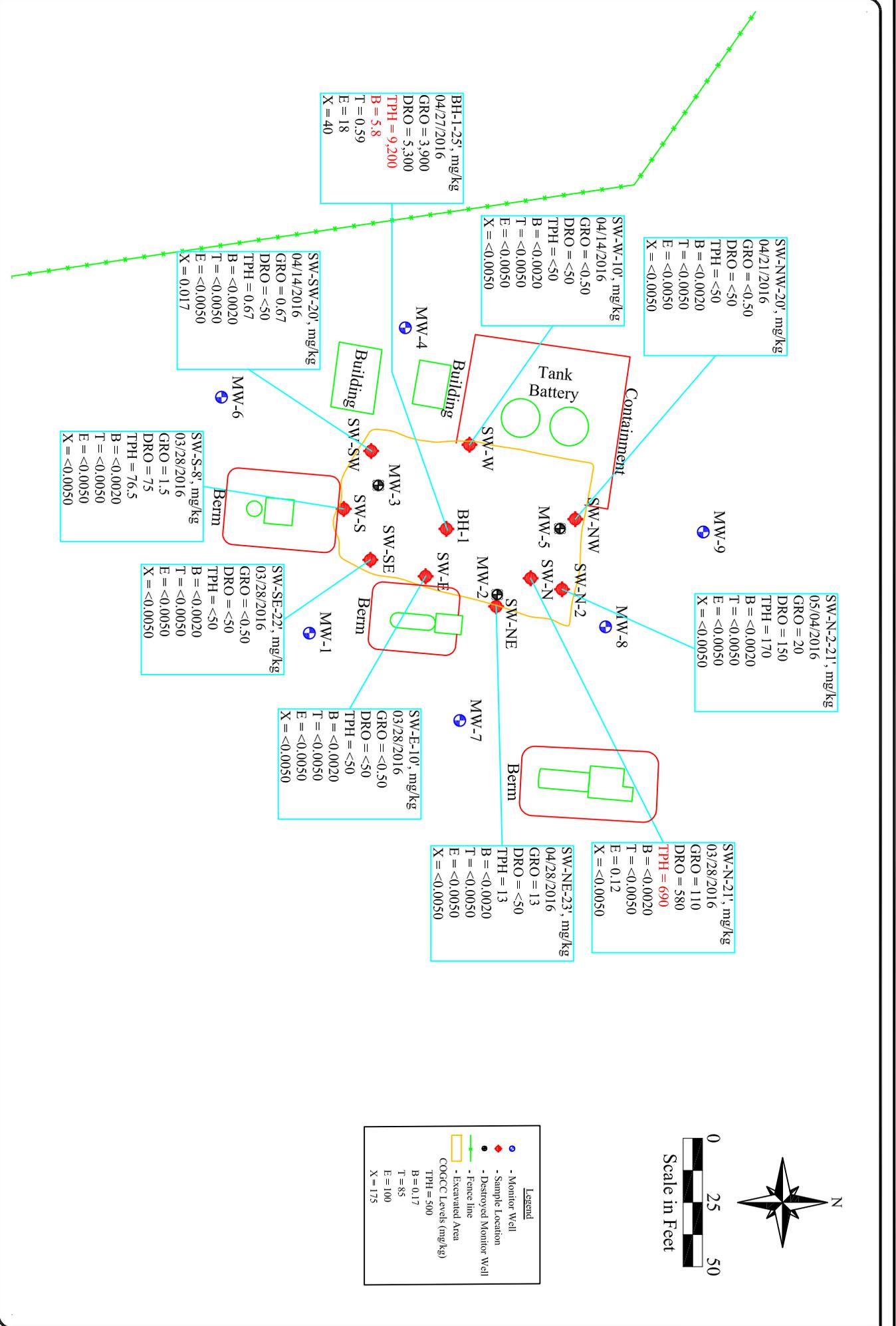
Prospect Energy

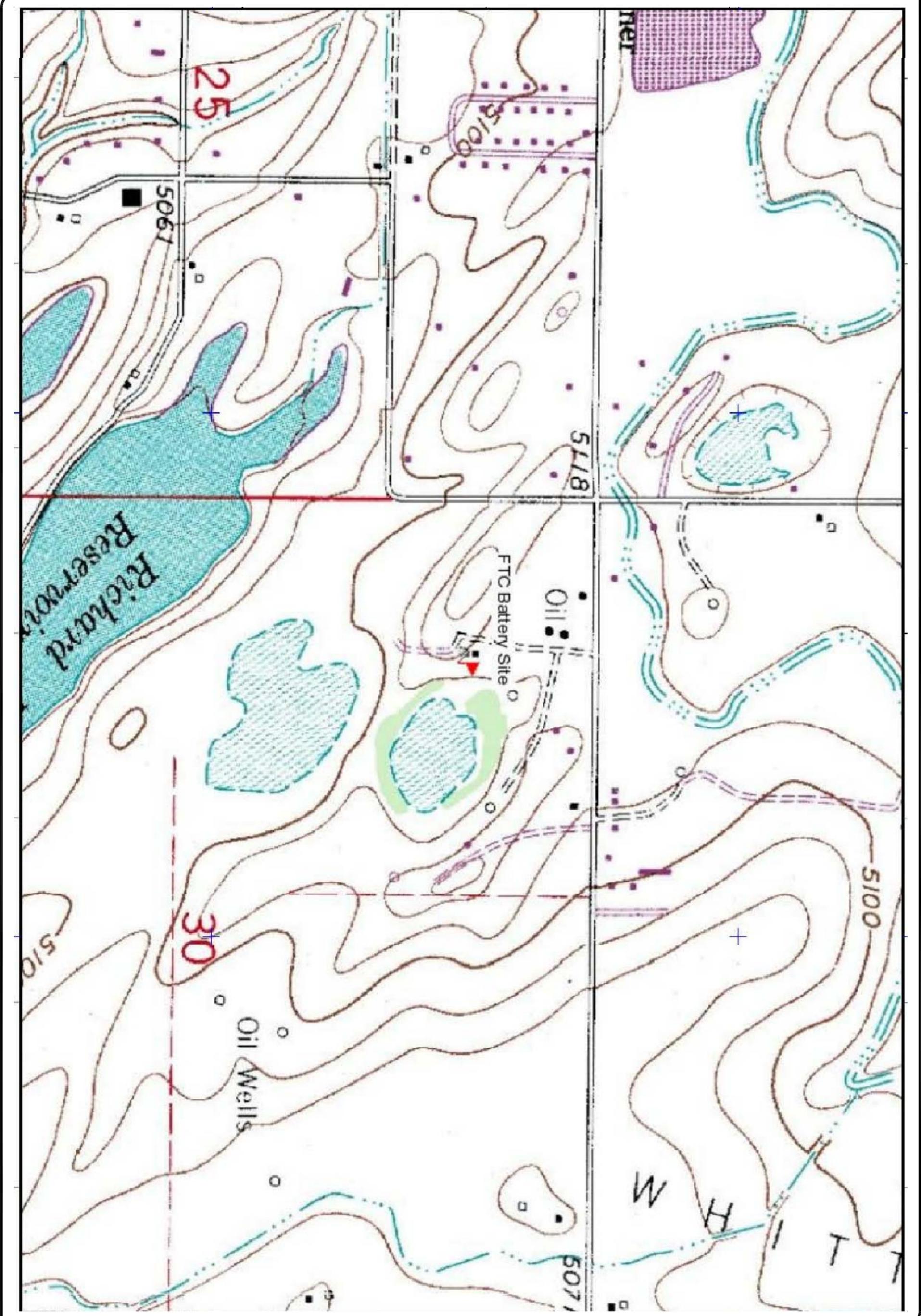
Larimer County, Colorado

Figure 1 - Site Plan



Legend	
	Monitor Well
	Sample Location
	Destroyed Monitor Well
	Fence line
	Excavated Area





Date: 08/18/2016
 Scale: 1:10,000
 Drawn By: TJS

FTC Battery
 Prospect Energy
 Larimer County, Colorado
 Figure 3 - Topographic Map



Table 1 - Confirmation Sampling Soil Analytical Data

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

Sample ID	Lab ID	Date Sampled	Concentration (mg/kg)						
			Benzene	Toluene	Ethyl-Benzene	Xylenes	GRO	DRO	TPH
COGCC Table 910-1 Concentration Levels			0.17	85	100	175	NA	NA	500
SW-E @ 10'	1603185-01	03/28/16	<0.0020	<0.0050	<0.0050	<0.0050	<0.50	<50	<50
SW-S @ 8'	1603185-02	03/28/16	<0.0020	<0.0050	<0.0050	<0.0050	1.5	75	76.5
SW-SW @ 20'	1604110-01	04/14/16	<0.0020	<0.0050	<0.0050	0.017	0.67	<50	0.67
SW-W @ 10'	1604110-02	04/14/16	<0.0020	<0.0050	<0.0050	<0.0050	<0.50	<50	<50
SW-NW @ 20'	1604199-01	04/21/16	<0.0020	<0.0050	<0.0050	<0.0050	<0.50	<50	<50
SW-SE @ 22'	1604209-01	04/25/16	<0.0020	<0.0050	<0.0050	<0.0050	<0.50	<50	<50
BH-1 @ 25'	1604234-01	04/27/16	5.8	0.59	18	40	3900	5300	9200
SW-NE @ 23'	1604249-01	04/28/16	<0.0020	<0.0050	<0.0050	<0.0050	13	<50	13
SW-N @ 21'	1604249-02	04/28/16	<0.0020	<0.0050	0.12	<0.0050	110	580	690
SW-N-2 @ 21'	1605032-01	05/04/16	<0.0020	<0.0050	<0.0050	<0.0050	20	150	170

mg/kg - milligrams per kilogram

< - Analytical result is less than the reporting limit

COGCC - Colorado Oil and Gas Conservation Commission

GRO - Gasoline Range Organics

DRO - Diesel Range Organics

TPH - Total Petroleum Hydrocarbons (Combined GRO/DRO)



Table 2 - Remediated Soil Analytical Data

Prospect Energy
 FTC Tank Battery
 Larimer County, Colorado

Sample ID	Lab ID	Date Sampled	Concentration (mg/kg)						
			Benzene	Toluene	Ethyl-Benzene	Xylenes	GRO	DRO	TPH
COGCC Table 910-1 Concentration Levels			0.17	85	100	175	NA	NA	500
A1	1606020-01	06/02/16	<0.0020	<0.0050	<0.0050	<0.0050	1.5	930	931.5
	1606167-01	06/16/16	NA	NA	NA	NA	NA	310	310
A2	1606020-02	06/02/16	<0.0020	<0.0050	<0.0050	<0.0050	1.3	1100	1101.3
	1606167-02	06/16/16	NA	NA	NA	NA	NA	420	420
A3	1606020-03	06/02/16	<0.0020	<0.0050	<0.0050	<0.0050	1.8	1000	1001.8
	1606167-03	06/16/16	NA	NA	NA	NA	NA	460	460
A4	1606020-04	06/02/16	<0.0020	<0.0050	<0.0050	<0.0050	0.87	1500	1500.87
	1606167-04	06/16/16	NA	NA	NA	NA	NA	650	650
	1606246-01	06/23/16	NA	NA	NA	NA	NA	880	880
A5	1607064-01	07/11/16	NA	NA	NA	NA	NA	460	460
	1606020-05	06/02/16	<0.0020	<0.0050	<0.0050	<0.0050	0.7	1500	1500.7
A6	1606167-05	06/16/16	NA	NA	NA	NA	NA	430	430
	1606020-06	06/02/16	<0.0020	<0.0050	<0.0050	<0.0050	1.1	1300	1301.1
A7	1606246-02	06/23/16	NA	NA	NA	NA	NA	350	350
	1606020-07	06/02/16	<0.0020	<0.0050	<0.0050	<0.0050	1.3	1000	1001.3
A8	1606246-03	06/23/16	NA	NA	NA	NA	NA	160	160
	1606020-08	06/02/16	<0.0020	<0.0050	<0.0050	<0.0050	1.7	1100	1101.7
A9	1606246-04	06/23/16	NA	NA	NA	NA	NA	470	470
	1606020-09	06/02/16	<0.0020	<0.0050	<0.0050	<0.0050	1.5	1000	1001.5
A10	1606246-05	06/23/16	NA	NA	NA	NA	NA	280	280
	1606020-10	06/02/16	<0.0020	<0.0050	<0.0050	<0.0050	0.82	990	990.82
A11	1606246-06	06/23/16	NA	NA	NA	NA	NA	380	380
	1606020-11	06/02/16	<0.0020	<0.0050	<0.0050	<0.0050	1	1100	1101
A12	1606246-07	06/23/16	NA	NA	NA	NA	NA	270	270
A13	1606132-01	06/10/16	NA	NA	NA	NA	NA	54	54
A14	1606132-02	06/10/16	NA	NA	NA	NA	NA	<50	<50
A15	1606132-03	06/10/16	NA	NA	NA	NA	NA	<50	<50
A16	1606132-04	06/10/16	NA	NA	NA	NA	NA	81	81
A17	1606132-05	06/10/16	NA	NA	NA	NA	NA	60	60
A18	1606132-06	06/10/16	NA	NA	NA	NA	NA	75	75
A19	1606132-07	06/10/16	NA	NA	NA	NA	NA	490	490
A20	1606132-08	06/10/16	NA	NA	NA	NA	NA	91	91
A21	1606132-09	06/10/16	NA	NA	NA	NA	NA	93	93
B1	1606246-08	06/23/16	NA	NA	NA	NA	NA	140	140
B2	1607008-01	06/30/16	<0.0020	<0.0050	<0.0050	<0.0050	NA	170	170
B3	1607008-02	06/30/16	<0.0020	<0.0050	<0.0050	<0.0050	NA	110	110
B4	1607008-03	06/30/16	<0.0020	<0.0050	<0.0050	<0.0050	NA	380	380
B5	1607008-04	06/30/16	<0.0020	<0.0050	<0.0050	<0.0050	NA	160	160
B6	1607008-05	06/30/16	<0.0020	<0.0050	<0.0050	<0.0050	NA	240	240
B7	1607008-06	06/30/16	<0.0020	<0.0050	<0.0050	<0.0050	NA	340	340
B8	1607064-02	07/11/16	NA	NA	NA	NA	NA	790	790
	1607183-01	07/26/16	NA	NA	NA	NA	NA	380	380
B9	1607064-03	07/11/16	NA	NA	NA	NA	NA	1200	1200
	1607183-02	07/26/16	NA	NA	NA	NA	NA	420	420
B10	1607064-04	07/11/16	NA	NA	NA	NA	NA	870	870
	1607183-03	07/26/16	NA	NA	NA	NA	NA	430	430
B11	1607064-05	07/11/16	NA	NA	NA	NA	NA	580	580
	1607183-04	07/26/16	NA	NA	NA	NA	NA	630	630
	1609066-01	09/12/16	NA	NA	NA	NA	NA	470	470
B12	1607064-06	07/11/16	NA	NA	NA	NA	NA	1100	1100
	1607183-05	07/26/16	NA	NA	NA	NA	NA	450	450
B13	1607064-07	07/11/16	NA	NA	NA	NA	NA	1100	1100
	1607183-06	07/26/16	NA	NA	NA	NA	NA	270	270
B14	1607064-08	07/11/16	NA	NA	NA	NA	NA	1400	1400
	1607183-07	07/26/16	NA	NA	NA	NA	NA	130	130
B15	1607064-09	07/11/16	NA	NA	NA	NA	NA	320	320
B16	1607064-10	07/11/16	NA	NA	NA	NA	NA	380	380
B17	1607120-01	07/18/16	NA	NA	NA	NA	NA	760	760
	1607183-08	07/26/16	NA	NA	NA	NA	NA	740	740
	1609066-02	09/12/16	NA	NA	NA	NA	NA	220	220
B18	1607120-02	07/18/16	NA	NA	NA	NA	NA	690	690
	1607183-09	07/26/16	NA	NA	NA	NA	NA	220	220
B19	1607120-03	07/18/16	NA	NA	NA	NA	NA	710	710
	1607183-10	07/26/16	NA	NA	NA	NA	NA	1500	1500
	1609066-03	09/12/16	NA	NA	NA	NA	NA	120	120



Table 2 - Remediated Soil Analytical Data

Prospect Energy
 FTC Tank Battery
 Larimer County, Colorado

Sample ID	Lab ID	Date Sampled	Concentration (mg/kg)						
			Benzene	Toluene	Ethyl-Benzene	Xylenes	GRO	DRO	TPH
COGCC Table 910-1 Concentration Levels			0.17	85	100	175	NA	NA	500
B19	1607120-04	07/18/16	NA	NA	NA	NA	NA	380	380
B20	1607120-05	07/18/16	NA	NA	NA	NA	NA	650	650
	1607183-11	07/26/16	NA	NA	NA	NA	NA	750	750
	1609066-04	09/12/16	NA	NA	NA	NA	NA	310	310
B21	1607120-06	07/18/16	NA	NA	NA	NA	NA	390	390
B22	1607120-07	07/18/16	NA	NA	NA	NA	NA	390	390
B23	1607183-12	07/26/16	NA	NA	NA	NA	NA	890	890
	1609066-05	09/12/16	NA	NA	NA	NA	NA	640	640
	1609201-01	09/29/16	NA	NA	NA	NA	NA	120	120
B24	1607183-13	07/26/16	NA	NA	NA	NA	NA	860	860
	1609066-06	09/12/16	NA	NA	NA	NA	NA	230	230
B25	1607183-14	07/26/16	NA	NA	NA	NA	NA	470	470
B26	1607183-15	07/26/16	NA	NA	NA	NA	NA	1100	1100
	1609066-07	09/12/16	NA	NA	NA	NA	NA	460	460

mg/kg - milligrams per kilogram
 < - Analytical result is less than the reporting limit
 COGCC - Colorado Oil and Gas Conservation Commission
 GRO - Gasoline Range Organics
 DRO - Diesel Range Organics
 TPH - Total Petroleum Hydrocarbons (Combined GRO/DRO)
 NA - Not Analyzed