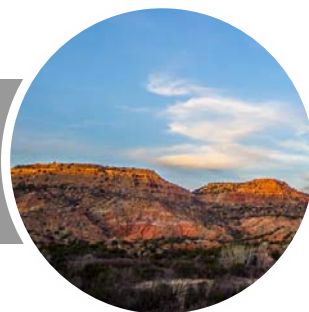


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**Groundwater Monitoring Report
Fourth Quarter 2018
Fort Collins Tank Battery**

November 2, 2018

Prepared By:

Talon/LPE
1811 East Mulberry Street
Fort Collins, CO 80524

Prepared For:

Prospect Energy

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1 Introduction

Talon/LPE (Talon) was contracted by Prospect Energy (Prospect) to conduct groundwater monitoring. The Site, known as Fort Collins Tank Battery facility (Site) is located in the northwest quarter of the northwest quarter, Section 30 of Township 8 North and Range 68 West in Larimer County, Colorado.

2 Objective

The primary objective of this document is to report on Site activities which occurred during the Fourth Quarter of 2018, including quarterly groundwater monitoring.

3 Regulatory Framework

The COGCC has regulatory jurisdiction over oil and natural gas industry operations in the State of Colorado. Section 900 of the COGCC Rules is for Exploration and Production Waste Management. More specifically, Section 910 details the Concentrations and Sampling for Soil and Groundwater rules. The regulatory limits for specific analytes in soil and groundwater are detailed in Table 910-1 and are summarized below.

Compound	COGCC Table 910-1 Groundwater Concentrations
Benzene	0.005 mg/L
Toluene	1.0 mg/L
Ethylbenzene	0.7 mg/L
Xylenes (total)	10 mg/L

4 Site Characteristics

4.1 Geography

The Site is located in the Larimer County, which is the north-central part of Colorado. The Site topography is relatively flat.

4.2 Geologic Summary

The Fort Collins area is underlain by Cretaceous Period Pierre Shale. The Pierre Shale is comprised of dark gray muddy marine sediments which tends to be about 700 feet thick. The Pierre Shale is overlain in areas by sandstone of the Fox Hills Formation. Surficial soils in the area are primarily of the Fort Collins series, which is characterized by dark brown to lighter brown subsoils. The Fort Collins loam is a developed soil of the Fort Collins series and is important to local agriculture.

4.3 Groundwater

Based on groundwater elevations measured during this monitoring event, groundwater flow has been measured to flow to the south-southwest at 0.039 feet/foot between monitoring wells MW-

2A and MW-6. Depth to water was observed between 21.60 ft bgs in MW-1 to 25.85 ft bgs in MW-6. Calculated groundwater elevations are detailed in Table 3 and groundwater elevation contours are presented on Figure 3.

5 Field Activities

5.1 Monitoring Well Groundwater Sampling

On October 9, 2018, Talon performed groundwater monitoring and sampling. Prior to sampling, depth to water and total depth were measured in each well (Table 3).

No phase-separated hydrocarbons (PSH) were observed during this monitoring event. Each well was purged of three well casing volumes, or until the well became dry. Purge water from the wells was containerized onsite in 55-gallon drums pending removal via vacuum truck.

Following the purging of the wells, Talon collected groundwater samples from the monitoring wells. The collected samples were analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX) via method SW8260 at Summit Scientific Laboratory in Golden, Colorado (Summit). A copy of the laboratory report and chain of custody documentation is included in Attachment 3.

The analytical result for benzene in monitoring well MW-3A was 0.032 mg/L, which is above the COGCC Table 910-1 concentration level of 0.005 mg/L and is an increase in concentration since the previous sampling event (0.0062 mg/L). All remaining laboratory analytical results for were below laboratory detection limits or COGCC Table 910-1 concentration levels.

6 Summary and Recommendations

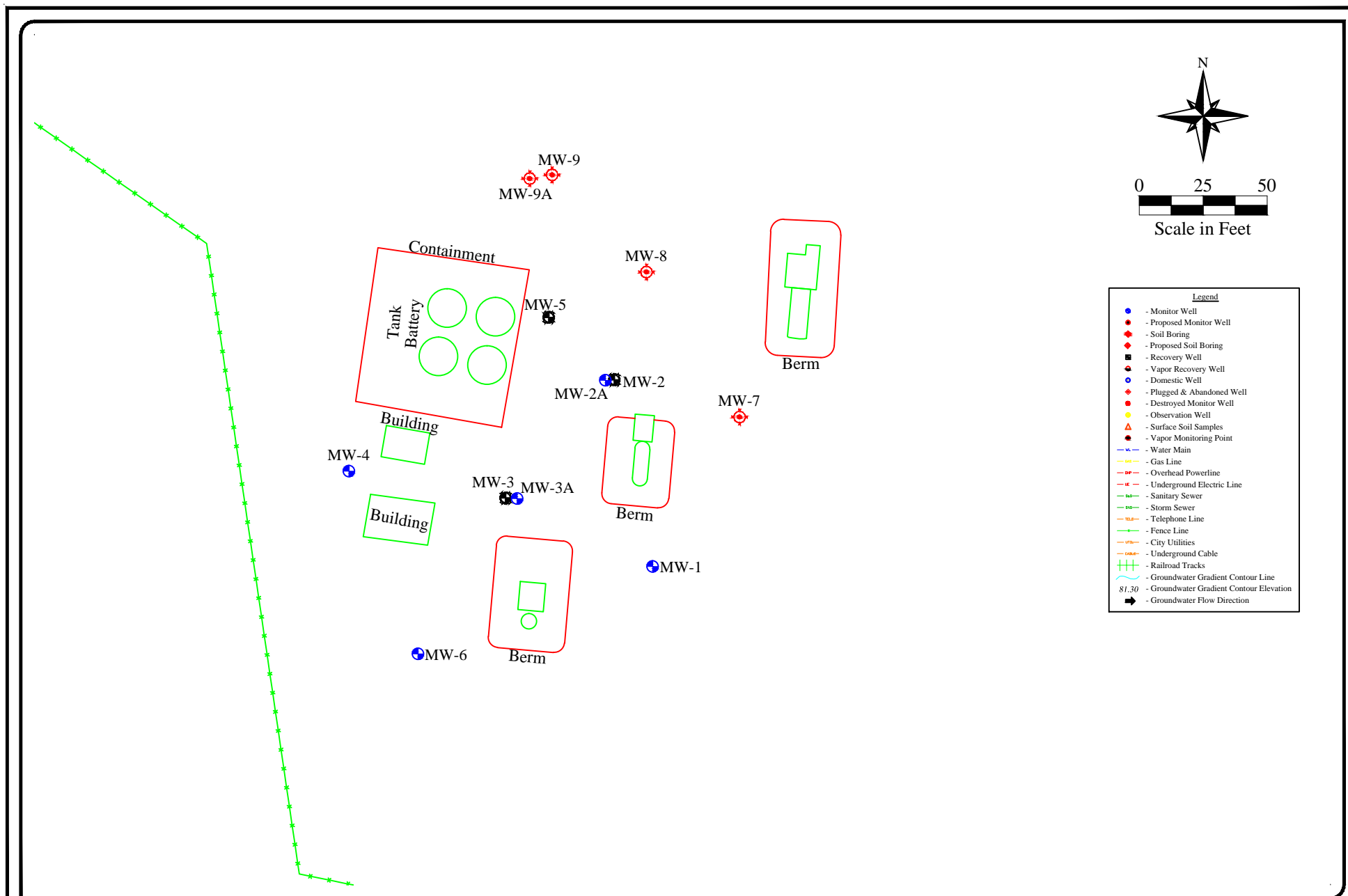
During Fourth Quarter 2018, Talon monitored the groundwater on site, and collected groundwater samples from the Site. Groundwater flow was calculated to be to the south-southwest at 0.039 ft/foot.

The analytical result for benzene in monitoring well MW-3A was 0.032 mg/L, which is above the COGCC Table 910-1 concentration level and is an increase in concentration since the previous sampling event. All remaining laboratory analytical results for were below laboratory detection limits or COGCC Table 910-1 concentration levels.

Talon recommends performing remedial activities on monitoring well MW-3A through monitored natural attenuation (MNA) or mobile dual-phase extraction (MDPE).

Talon will continue quarterly monitoring at the Site. The next sampling event is anticipated to occur in January 2019.

Attachment 1
Figures

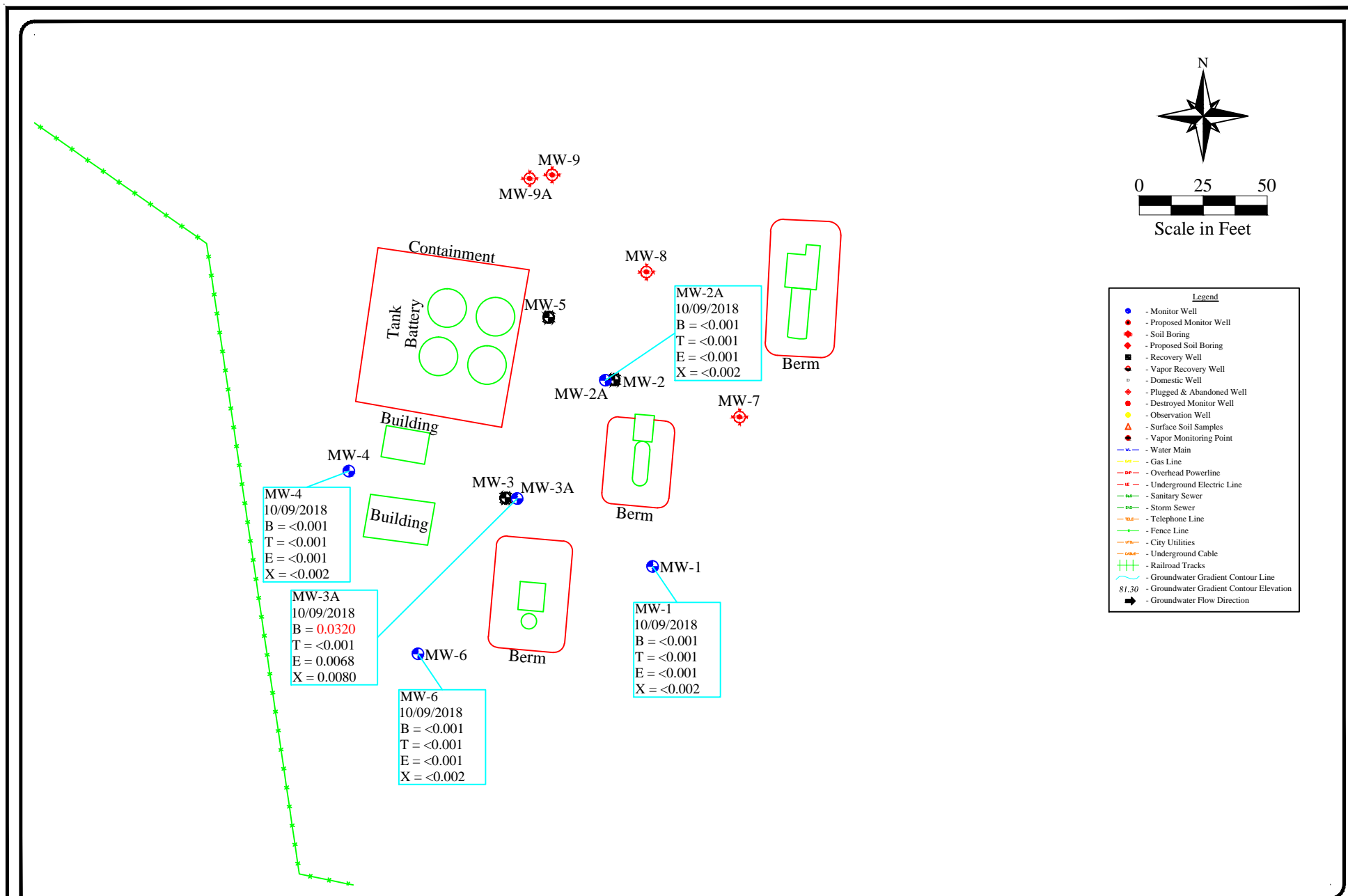


Date: 10/31/2018

Scale: 1" = 50'

Drawn By: FOM

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

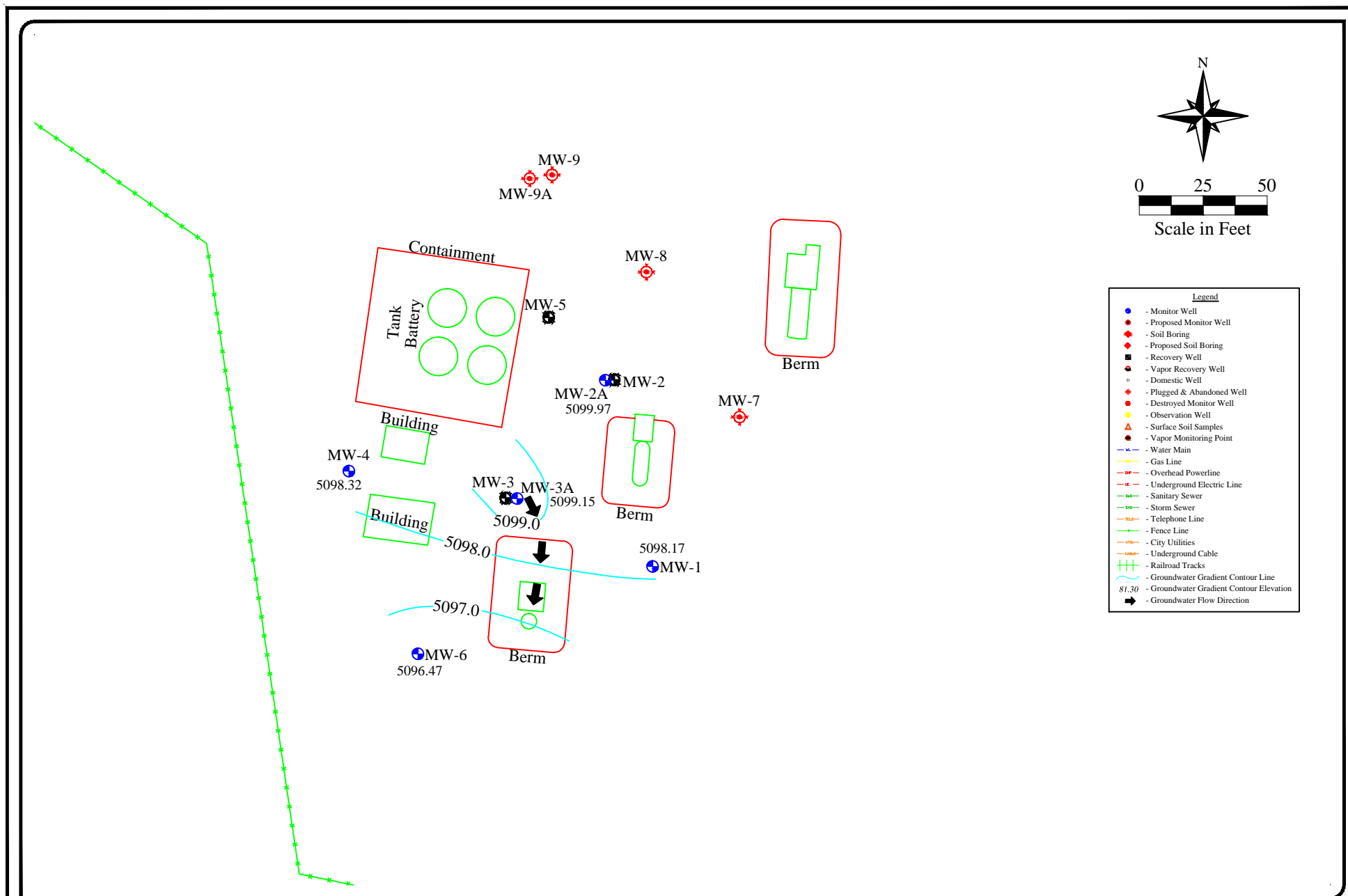


Date: 10/31/2018

Scale: 1" = 50'

Drawn By: FOM

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



Date: 10/31/2018

Scale: 1" = 50'

Drawn By: FOM

FTC Battery
Prospect Energy
Larimer County, Colorado
Figure 3 - Groundwater Elevation Contour Map (10/09/2018)

Attachment 2
Tables



Table 1 - Well Information

**Prospect Energy
Fort Collins Tank Battery
Fort Collins, Colorado**

Well ID	Latitude	Longitude	Ground Surface Elevation (ft amsl)	TOC Elevation (ft amsl)	Screen Interval (ft bgs)
MW-1	40.63705045	-105.0534241	5120.067	5119.772	19.5-34.5
MW-2	40.63724527	-105.0534773	5122.973	5122.606	19.5-34.5
MW-2A	40.63724403	-105.0534801	5122.403	5121.988	19-34
MW-3	40.63712825	-105.0536249	5123.213	5122.846	14.5-29.5
MW-3A	40.63712398	-105.0536166	5123.004	5122.375	19-34
MW-4	40.63714891	-105.0538370	5123.485	5123.166	14.5-29.5
MW-5	40.63731007	-105.0535692	5123.095	5122.812	14.5-29.5
MW-6	40.63696229	-105.0537450	5122.668	5122.315	14.5-29.5
MW-7	40.63720573	-105.0533057	5119.228	5118.879	14.5-29.5
MW-8	40.63735590	-105.0534332	5121.080	5120.612	14.5-29.5
MW-9	40.63745316	-105.0535617	5121.236	5120.816	14.5-29.5
MW-9A	40.63745297	-105.0535865	5121.568	5120.691	15-30

TOC - Top of Casing

DTW - Depth to Water

ft bgs - Feet Below Ground Surface

ft amsl - Feet Above Mean Sea Level



Table 2 - Groundwater Analytical Data

**Prospect Energy
Fort Collins Tank Battery
Fort Collins, Colorado**

Sample ID	Lab ID	Date	Concentration (mg/L)			
			Benzene	Toluene	Ethyl- Benzene	Xylenes
COGCC Table 910-1 Concentration Levels			0.005	1	0.7	10
MW-1	1508286-1	8/18/2015	<0.001	<0.001	<0.001	<0.001
	1512034-02	12/4/2015	<0.001	<0.001	<0.001	<0.001
	1602209-01	2/25/2016	<0.001	<0.001	<0.001	<0.001
	1610145-01	10/18/2016	<0.001	<0.001	<0.001	<0.001
	1701103-01	1/17/2017	<0.001	<0.001	<0.001	<0.001
	1704106-01	4/7/2017	<0.001	<0.001	<0.001	<0.002
	1707039-01	7/7/2017	<0.001	<0.001	<0.001	<0.002
	1710187-01	10/17/2017	<0.001	<0.001	<0.001	<0.002
	1801203-01	1/18/2018	<0.001	<0.001	<0.001	<0.002
	1804022-01	4/3/2018	<0.001	<0.001	<0.001	<0.002
	1807264-01	7/19/2018	<0.001	<0.001	<0.001	<0.002
	1810122-01	10/9/2018	<0.001	<0.001	<0.001	<0.002
MW-2	NA	8/18/2015	Not Analyzed Due to PSH			
	NA	12/4/2015	Not Analyzed Due to PSH			
	NA	2/25/2016	Not Analyzed Due to PSH			
	Destroyed					
MW-2A	1610145-02	10/18/2016	<0.001	<0.001	<0.001	<0.001
	1701103-02	1/17/2017	<0.001	<0.001	<0.001	<0.001
	1704106-02	4/7/2017	<0.001	<0.001	<0.001	<0.002
	1707039-02	7/7/2017	<0.001	<0.001	<0.001	0.0055
	1710187-02	10/17/2017	<0.001	<0.001	<0.001	0.0055
	1801203-02	1/18/2018	<0.001	<0.001	<0.001	<0.002
	1804022-02	4/3/2018	<0.001	<0.001	<0.001	<0.002
	1807264-02	7/19/2018	<0.001	<0.001	<0.001	<0.002
	1810122-02	10/9/2018	<0.001	<0.001	<0.001	<0.002
MW-3	NA	8/18/2015	Not Analyzed Due to PSH			
	NA	12/4/2015	Not Analyzed Due to PSH			
	NA	2/25/2016	Not Analyzed Due to PSH			
	Destroyed					
MW-3A	1610145-03	10/18/2016	0.038	0.0086	0.038	0.16
	1701103-03	1/17/2017	0.0042	<0.001	<0.001	<0.001
	1704106-03	4/7/2017	0.0079	<0.001	<0.001	<0.002
	1707039-03	7/7/2017	0.0038	<0.001	0.014	0.0036
	1710187-03	10/17/2017	0.0170	<0.001	0.010	0.0200
	1801203-03	1/18/2018	0.0150	<0.001	0.008	0.0120
	1804022-03	4/3/2018	0.0110	<0.001	0.003	0.0032
	1807264-03	7/19/2018	0.0062	<0.001	0.002	0.0020
	1810122-03	10/9/2018	0.0320	<0.001	0.0068	0.0080
DUP	1807264-06	7/19/2018	0.0210	<0.001	0.006	0.0064
	1810122-06	10/9/2018	0.0330	<0.001	0.007	0.0079

Table 2 - Groundwater Analytical Data

**Prospect Energy
Fort Collins Tank Battery
Fort Collins, Colorado**

Sample ID	Lab ID	Date	Concentration (mg/L)			
			Benzene	Toluene	Ethyl-Benzene	Xylenes
COGCC Table 910-1 Concentration Levels			0.005	1	0.7	10
MW-4	1508286-2	8/18/2015	<0.001	<0.001	<0.001	<0.001
	1512034-04	12/4/2015	<0.001	<0.001	<0.001	<0.001
	1602209-06	2/25/2016	<0.001	<0.001	<0.001	<0.001
	1610145-04	10/18/2016	<0.001	<0.001	<0.001	<0.001
	NS	1/17/2017	Not Sampled - Well Inaccessible			
	1704106-04	4/7/2017	<0.001	<0.001	<0.001	<0.002
	1707039-04	7/7/2017	<0.001	<0.001	<0.001	<0.002
	1710187-04	10/17/2017	<0.001	<0.001	<0.001	<0.002
	1801203-04	1/18/2018	<0.001	<0.001	<0.001	<0.002
	1804022-04	4/3/2018	<0.001	<0.001	<0.001	<0.002
	1807264-04	7/19/2018	<0.001	<0.001	<0.001	<0.002
	1810122-04	10/9/2018	<0.001	<0.001	<0.001	<0.002
MW-5	1508286-3	8/18/2015	<0.001	<0.001	<0.001	<0.001
	1512034-07	12/4/2015	<0.001	<0.001	<0.001	<0.001
	1602209-07	2/25/2016	<0.001	<0.001	<0.001	<0.001
Destroyed						
MW-6	1508286-4	8/18/2015	<0.001	<0.001	<0.001	<0.001
	1512034-06	12/4/2015	<0.001	<0.001	<0.001	<0.001
	1602209-05	2/25/2016	<0.001	<0.001	<0.001	<0.001
	1610145-05	10/18/2016	<0.001	<0.001	<0.001	<0.001
	1701103-04	1/17/2017	<0.001	<0.001	<0.001	<0.001
	1704106-05	4/7/2017	<0.001	<0.001	<0.001	<0.002
	1707039-05	7/7/2017	<0.001	<0.001	<0.001	<0.002
	1710187-05	10/17/2017	<0.001	<0.001	<0.001	<0.002
	1801203-05	1/18/2018	<0.001	<0.001	<0.001	<0.002
	1804022-05	4/3/2018	<0.001	<0.001	<0.001	<0.002
	1807264-05	7/19/2018	<0.001	<0.001	<0.001	<0.002
	1810122-05	10/9/2018	<0.001	<0.001	<0.001	<0.002
MW-7	1508286-5	8/18/2015	<0.001	<0.001	<0.001	<0.001
	1512034-01	12/4/2015	<0.001	<0.001	<0.001	<0.001
	1602209-03	2/25/2016	<0.001	<0.001	<0.001	<0.001
	1610145-06	10/18/2016	<0.001	<0.001	<0.001	<0.001
	1701103-05	1/17/2017	<0.001	<0.001	<0.001	<0.001
	1704106-06	4/7/2017	<0.001	<0.001	<0.001	<0.002
	1707039-06	7/7/2017	<0.001	<0.001	<0.001	<0.002
	Abandoned 09/2017					



Table 2 - Groundwater Analytical Data

**Prospect Energy
Fort Collins Tank Battery
Fort Collins, Colorado**

Sample ID	Lab ID	Date	Concentration (mg/L)			
			Benzene	Toluene	Ethyl- Benzene	Xylenes
COGCC Table 910-1 Concentration Levels			0.005	1	0.7	10
MW-8	1508286-6	8/18/2015	<0.001	<0.001	<0.001	<0.001
	1512034-03	12/4/2015	<0.001	<0.001	<0.001	<0.001
	1602209-02	2/25/2016	<0.001	<0.001	<0.001	<0.001
	1610145-07	10/18/2016	<0.001	<0.001	<0.001	<0.001
	1701103-06	1/17/2017	<0.001	<0.001	<0.001	<0.001
	1704106-07	4/7/2017	<0.001	<0.001	<0.001	<0.002
	1707039-07	7/7/2017	<0.001	<0.001	<0.001	<0.002
Abandoned 09/2017						
MW-9	1508286-7	8/18/2015	<0.001	<0.001	<0.001	<0.001
	1512034-05	12/4/2015	<0.001	<0.001	<0.001	<0.001
	1602209-01	2/25/2016	<0.001	<0.001	<0.001	<0.001
	1611015-01	11/2/2016	0.31	0.86	0.22	1.1
Abandoned 11/2/2016						
MW-9A	1612018-01	12/2/2016	<0.001	0.0011	<0.001	<0.001
	1701103-07	1/17/2017	<0.001	<0.001	<0.001	<0.001
	1704106-08	4/7/2017	<0.001	<0.001	<0.001	<0.002
	1707039-08	7/7/2017	<0.001	<0.001	<0.001	<0.002
	1710187-05	10/17/2017	<0.001	<0.001	<0.001	<0.002
	1801203-06	1/18/2018	<0.001	<0.001	<0.001	<0.002
Abandoned 3/7/2018						

mg/L - milligrams per liter

< - Analytical result is less than the reporting limit

COGCC - Colorado Oil and Gas Conservation Commission

NA - Not applicable

PSH - Phase-Separated Hydrocarbons



Table 3 - Groundwater Gauging Data

**Prospect Energy
Fort Collins Tank Battery
Fort Collins, Colorado**

Well ID	Date	Depth to Product (ft)	Depth to Water (ft)	Groundwater Elevation (ft amsl)	Corrected Groundwater Elevation (ft amsl)	Total Depth (ft)
MW-1	8/18/2015	NA	20.41	5099.36		33.21
	12/4/2015	NA	20.42	5099.35		32.8
	2/25/2016	NA	21.09	5098.68		33.55
	10/17/2016	NA	21.99	5097.78		33.43
	1/17/2017	NA	21.47	5098.30		33.5
	4/7/2017	NA	20.82	5098.95		33.45
	7/7/2017	NA	21.25	5098.52		33.27
	10/17/2017	NA	20.06	5099.71		33.21
	1/18/2018	NA	19.81	5099.96		32.93
	4/3/2018	NA	19.97	5099.80		33.00
	7/19/2018	NA	20.82	5098.95		33.10
	10/9/2018	NA	21.6	5098.17		33.00
MW-2	8/18/2015	22.58	22.98	5099.63	5099.95	NM
	12/4/2015	22.42	23.68	5098.93	5099.93	NM
	2/25/2016	23.25	23.40	5099.21	5099.33	NM
	Destroyed					
MW-2A	10/17/2016	NA	24.61	5097.38		34.42
	1/17/2017	NA	22.64	5099.35		33.40
	4/7/2017	NA	22.41	5099.58		33.40
	7/7/2017	NA	23.11	5098.88		33.42
	10/17/2017	NA	21.23	5100.76		33.10
	1/18/2018	NA	21.17	5100.82		33.27
	4/3/2018	NA	21.30	5100.69		33.34
	7/19/2018	NA	22.35	5099.64		30.51
	10/9/2018	NA	23.02	5098.97		33.34
MW-3	8/18/2015	22.89	25.00	5097.85	5099.53	NM
	12/4/2015	23.00	25.20	5097.65	5099.41	NM
	2/25/2016	22.75	24.94	5097.91	5099.66	NM
	Destroyed					
MW-3A	10/17/2016	NA	24.17	5098.21		32.10
	1/17/2017	NA	23.30	5099.08		32.11
	4/7/2017	NA	23.13	5099.25		31.70
	7/7/2017	NA	23.69	5098.69		34.95
	10/17/2017	NA	29.90	5092.48		32.68
	1/18/2018	NA	22.01	5100.37		32.31
	7/19/2018	NA	22.96	5099.42		32.82
	10/9/2018	NA	23.23	5099.15		32.70



Table 3 - Groundwater Gauging Data

**Prospect Energy
Fort Collins Tank Battery
Fort Collins, Colorado**

Well ID	Date	Depth to Product (ft)	Depth to Water (ft)	Groundwater Elevation (ft amsl)	Corrected Groundwater Elevation (ft amsl)	Total Depth (ft)
MW-4	8/18/2015	NA	23.58	5099.59		29.34
	12/4/2015	NA	23.78	5099.39		29.3
	2/25/2016	NA	23.60	5099.57		29.31
	10/17/2016	NA	25.20	5097.97		29.26
	1/17/2017	NA	NM	NM		NM
	4/7/2017	NA	24.45	5098.72		29.31
	7/7/2017	NA	24.80	5098.37		29.21
	10/17/2017	NA	23.29	5099.88		29.32
	1/18/2018	NA	23.33	5099.84		29.02
	4/3/2018	NA	23.47	5099.70		29.20
	7/19/2018	NA	24.09	5099.08		29.29
	10/9/2018	NA	24.85	5098.32		29.2
MW-5	8/18/2015	NA	22.53	5100.28		29.30
	12/4/2015	NA	22.59	5100.22		29.26
	2/25/2016	NA	22.30	5100.51		28.98
	Destroyed					
MW-6	8/18/2015	NA	24.50	5097.82		29.34
	12/4/2015	NA	24.68	5097.64		29.32
	2/25/2016	NA	24.44	5097.88		29.13
	10/17/2016	NA	26.18	5096.14		29.04
	1/17/2017	NA	25.57	5096.75		29.24
	4/7/2017	NA	25.35	5096.97		29.25
	7/7/2017	NA	25.68	5096.64		29.18
	10/17/2017	NA	24.30	5098.02		29.20
	1/18/2018	NA	24.22	5098.10		29.01
	4/3/2018	NA	24.30	5098.02		29.24
	7/19/2018	NA	25.02	5097.30		29.22
	10/9/2018	NA	25.85	5096.47		29.24
MW-7	8/18/2015	NA	19.00	5099.88		28.00
	12/4/2015	NA	18.90	5099.98		27.46
	2/25/2016	NA	18.56	5100.32		27.38
	10/17/2016	NA	20.62	5098.26		26.89
	1/17/2017	NA	19.72	5099.16		26.90
	4/7/2017	NA	19.51	5099.37		26.85
	7/7/2017	NA	20.30	5098.58		26.69
	Abandoned					
MW-8	8/18/2015	NA	20.35	5100.26		28.83
	12/4/2015	NA	20.43	5100.18		28.55
	2/25/2016	NA	19.99	5100.62		28.75
	10/17/2016	NA	22.04	5098.57		28.69
	1/17/2017	NA	21.20	5099.41		28.63
	4/7/2017	NA	21.01	5099.60		28.65
	7/7/2017	NA	21.73	5098.88		28.56
	Abandoned					



Table 3 - Groundwater Gauging Data

**Prospect Energy
Fort Collins Tank Battery
Fort Collins, Colorado**

Well ID	Date	Depth to Product (ft)	Depth to Water (ft)	Groundwater Elevation (ft amsl)	Corrected Groundwater Elevation (ft amsl)	Total Depth (ft)
MW-9	8/18/2015	NA	20.18	5100.64		29.20
	12/4/2015	NA	20.22	5100.60		28.48
	2/25/2016	NA	19.95	5100.87		29.68
	Abandoned					
MW-9A	12/2/2016	NA	21.05	5099.64		28.84
	1/17/2017	NA	20.72	5099.97		28.65
	4/7/2017	NA	20.60	5100.09		28.72
	7/7/2017	NA	21.17	5099.52		28.58
	10/17/2017	NA	19.23	5101.46		28.79
	1/18/2018	NA	19.41	5101.28		28.05
	Abandoned					

NA - Not Applicable

NM - Not Measured

ft - feet

Corrected groundwater elevation levels are based on a correction factor of 0.8

Attachment 3
Analytical Report

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

October 16, 2018

Jennifer Galles

Talon/LPE

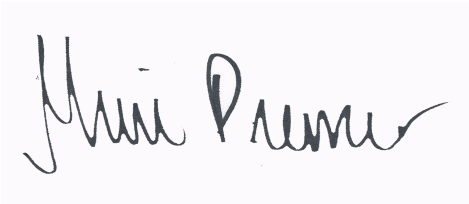
1811 East Mulberry

Fort Collins, CO 80525

RE: Prospect Fort Collins Tanks

Enclosed are the results of analyses for samples received by Summit Scientific on 10/09/18 14:05. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink on a light blue background. The signature is cursive and reads "Muri Premer".

Muri Premer For Ben Shrewsbury

Laboratory Manager



Talon/LPE
1811 East Mulberry
Fort Collins CO, 80525

Project: Prospect Fort Collins Tanks

Project Number: 702108.001.13
Project Manager: Jennifer Galles

Reported:
10/16/18 11:18

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	1810122-01	Water	10/09/18 12:06	10/09/18 14:05
MW-2A	1810122-02	Water	10/09/18 11:49	10/09/18 14:05
MW-3A	1810122-03	Water	10/09/18 11:30	10/09/18 14:05
MW-4	1810122-04	Water	10/09/18 11:55	10/09/18 14:05
MW-6	1810122-05	Water	10/09/18 11:47	10/09/18 14:05
Dup A	1810122-06	Water	10/09/18 11:38	10/09/18 14:05

Summit Scientific

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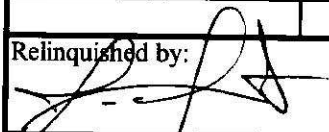
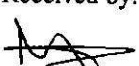
1810122

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

Page 1 of 1

Client: Prospect Energy
Address: 1811 East Mulberry
City/State/Zip: Fort Collins, CO 80524
Phone: 970-818-5330 Fax:
Sampler Name: Jason Leverton

Project Manager: Jennifer Galles
E-Mail: jgalles@talonlpe.com and jleverton@talonlpe.com
Project Name: Ftc Tanks
Project Number: 702108.001.13

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													
MW-1	10/9/2018	12:06:00	3	x				x					x												
MW-2A	10/9/2018	11:49	3	x				x					x												
MW-3A	10/9/2018	11:30	3	x				x					x												
MW-4	10/9/2018	11:55	3	x				x					x												
MW-6	10/9/2018	11:47	3	x				x					x												
Dup A	10/9/2018	11:38	3	x				x					x												
Relinquished by:  Date/Time: 10.9.18 14:05				Received by:  Date/Time: 10-9-18 14:05				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: 7.1 Intact: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																	
Relinquished by: Date/Time:				Received in Lab by: Date/Time:																					

1810122

Sample Receipt Checklist

S2 Work Order _____

Client: PROSPECT ENERGY/TALON Client Project ID: F+T TanksShipped Via: H.~~R.~~P.U./FedEx/UPS/USPS/Other _____ Airbill #: _____Matrix (check all that apply): _____ Air _____ Soil/Solid X Water _____ Other: _____
(Describe)

Temp (°C)	<u>7.1</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⁾ ? NOTE: If samples are delivered the same day of sampling, this requirement is met provided that there is evidence that cooling has begun.	<u>X</u>			
Were all samples received intact ⁽¹⁾ ?	<u>X</u>			
Was adequate sample volume provided ⁽¹⁾ ?	<u>X</u>			
If custody seals are present, are they intact ⁽¹⁾ ?			<u>X</u>	
Are samples with holding times due within 48 hours sample due within 48 hours present?			<u>X</u>	
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	<u>X</u>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<u>X</u>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<u>X</u>			
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	<u>X</u>			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.		<u>X</u>		
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ? Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, ect	<u>X</u>			<u>HCL</u>
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ? Record the pH in Comments.			<u>X</u>	
If dissolved metals are requested, were samples field filtered?			<u>X</u>	
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 InitialsKA 10-9-18
Signature of Custodian15:30
Date/Time



Talon/LPE
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Fort Collins CO, 80525

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Reported:
10/16/18 11:18

MW-1
1810122-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/09/18 12:06**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	1.0	ug/l	1	1810139	10/10/18	10/11/18	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **10/09/18 12:06**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		98.5 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		95.1 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.8 %	21-167		"	"	"	"	

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Reported:
10/16/18 11:18

MW-2A
1810122-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/09/18 11:49**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	1810139	10/10/18	10/11/18	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **10/09/18 11:49**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		102 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		96.2 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.5 %	21-167		"	"	"	"	

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Reported:
10/16/18 11:18

MW-3A
1810122-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/09/18 11:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	32	1.0	ug/l	1	1810139	10/10/18	10/11/18	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	6.8	1.0	"	"	"	"	"	"	
Xylenes (total)	8.0	2.0	"	"	"	"	"	"	

Date Sampled: **10/09/18 11:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		96.4 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		97.5 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	21-167		"	"	"	"	

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Reported:
10/16/18 11:18

MW-4
1810122-04 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/09/18 11:55**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	1810139	10/10/18	10/11/18	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **10/09/18 11:55**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		102 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		94.9 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.3 %	21-167		"	"	"	"	

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Reported:
10/16/18 11:18

MW-6
1810122-05 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/09/18 11:47**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	1810139	10/10/18	10/11/18	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **10/09/18 11:47**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		99.2 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		94.4 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	21-167		"	"	"	"	

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Reported:
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Dup A
1810122-06 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/09/18 11:38**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	33	1.0		ug/l	1	1810139	10/10/18	10/11/18	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	6.8	1.0		"	"	"	"	"	"	
Xylenes (total)	7.9	2.0		"	"	"	"	"	"	

Date Sampled: **10/09/18 11:38**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		96.5 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		96.9 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %		21-167		"	"	"	"	

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Reported:
10/16/18 11:18

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 1810139 - EPA 5030 Water MS

Blank (1810139-BLK1)

Prepared: 10/10/18 Analyzed: 10/11/18

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	2.0	"							
Surrogate: 1,2-Dichloroethane-d4	13.5		"	13.2		102	23-173			
Surrogate: Toluene-d8	12.6		"	13.3		94.2	20-170			
Surrogate: 4-Bromofluorobenzene	13.4		"	13.3		101	21-167			

LCS (1810139-BS1)

Prepared: 10/10/18 Analyzed: 10/11/18

Benzene	25.6	1.0	ug/l	33.3		76.8	70-130			
Toluene	27.2	1.0	"	33.3		81.7	70-130			
Ethylbenzene	28.4	1.0	"	33.3		85.2	70-130			
m,p-Xylene	54.6	2.0	"	66.7		81.9	70-130			
o-Xylene	28.7	1.0	"	33.3		86.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	13.6		"	13.2		103	23-173			
Surrogate: Toluene-d8	13.0		"	13.3		97.9	20-170			
Surrogate: 4-Bromofluorobenzene	12.8		"	13.3		96.2	21-167			

Matrix Spike (1810139-MS1)

Source: 1810116-01

Prepared: 10/10/18 Analyzed: 10/11/18

Benzene	25.8	1.0	ug/l	33.3	ND	77.4	70-130			
Toluene	27.5	1.0	"	33.3	ND	82.5	70-130			
Ethylbenzene	28.9	1.0	"	33.3	ND	86.6	70-130			
m,p-Xylene	55.5	2.0	"	66.7	ND	83.2	70-130			
o-Xylene	29.5	1.0	"	33.3	ND	88.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	13.7		"	13.2		104	23-173			
Surrogate: Toluene-d8	13.2		"	13.3		99.1	20-170			
Surrogate: 4-Bromofluorobenzene	12.8		"	13.3		96.4	21-167			

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

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

Batch 1810139 - EPA 5030 Water MS

Matrix Spike Dup (1810139-MSD1)	Source: 1810116-01			Prepared: 10/10/18 Analyzed: 10/11/18						
Benzene	25.5	1.0	ug/l	33.3	ND	76.6	70-130	1.01	30	
Toluene	27.1	1.0	"	33.3	ND	81.2	70-130	1.58	30	
Ethylbenzene	28.9	1.0	"	33.3	ND	86.7	70-130	0.0346	30	
m,p-Xylene	55.1	2.0	"	66.7	ND	82.7	70-130	0.615	30	
o-Xylene	29.4	1.0	"	33.3	ND	88.1	70-130	0.408	30	
Surrogate: 1,2-Dichloroethane-d4	14.7		"	13.2		111	23-173			
Surrogate: Toluene-d8	12.8		"	13.3		95.9	20-170			
Surrogate: 4-Bromofluorobenzene	13.1		"	13.3		98.0	21-167			

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10/16/18 11:18

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