



Blake Ford
Environmental Coordinator
Extraction Oil and Gas, Inc.
370 17th Street, Suite 5300
Denver, Colorado 80202

May 7, 2018

Subject: Work Completion Report – Remedial Investigation

JBL Offsite Tank Battery 34-33
COGCC Location ID: 436640
NWSE, Section 34, T17N-R67W
40.531294/-104.875689
Severance, Weld County, Colorado

Dear Mr. Ford:

Apex Companies LLC (Apex) has prepared this work completion report to document remedial investigation activities conducted in support of the removal of a partially-buried produced water vessel at the JBL Offsite Tank Battery 34-33 location (436640) in Severance, Colorado. These efforts included field-screening and soil sampling following production equipment removal, under an approved Form 27 (Site Investigation and Remediation Workplan) (Rem #: 11168).

Remedial Investigation

On March 30th, 2018, an Apex Field Coordinator used visual observation and a Photoionization Detector (PID) to field-screen potential soil impacts in support of excavation efforts completed to remove a partially-buried produced water vessel. Field-screening results yielded PID readings of less than five parts per million (5 ppm).

A total of five sidewall samples and one base sample were collected. Two of the sidewall samples were collected from the southwest sidewall, which exceeded 30 feet and therefore warranted additional sampling to achieve proper characterization. Flowline removal activities at the southwest side contributed to the total size of the excavation, with final dimensions of forty-two feet (42') by thirty-one feet (31') and a depth of five feet (5'). The base sample (B01@5') was submitted for analysis of approved constituents of concern with all others placed on hold.

No soil impacts were discovered, and no soil was removed from site during onsite remedial investigation efforts. For these reasons, a spill/release report was not required.

Results

Laboratory results for the sample collected from the base of the excavation were within allowable limits for COGCC Table 910-1 constituents of concern (TPH and BTEX).


No other indications of soil impacts were noted during the site investigation, and no groundwater was encountered during the remediation project.

Conclusions

Based on field observations and laboratory results, there is no evidence of impacts related to the operation of the produced water vessel. No further site assessment is recommended at this time.

If you have any questions about this report, onsite activities, or anything else related to this effort, please don't hesitate to contact me at 970-261-1127.

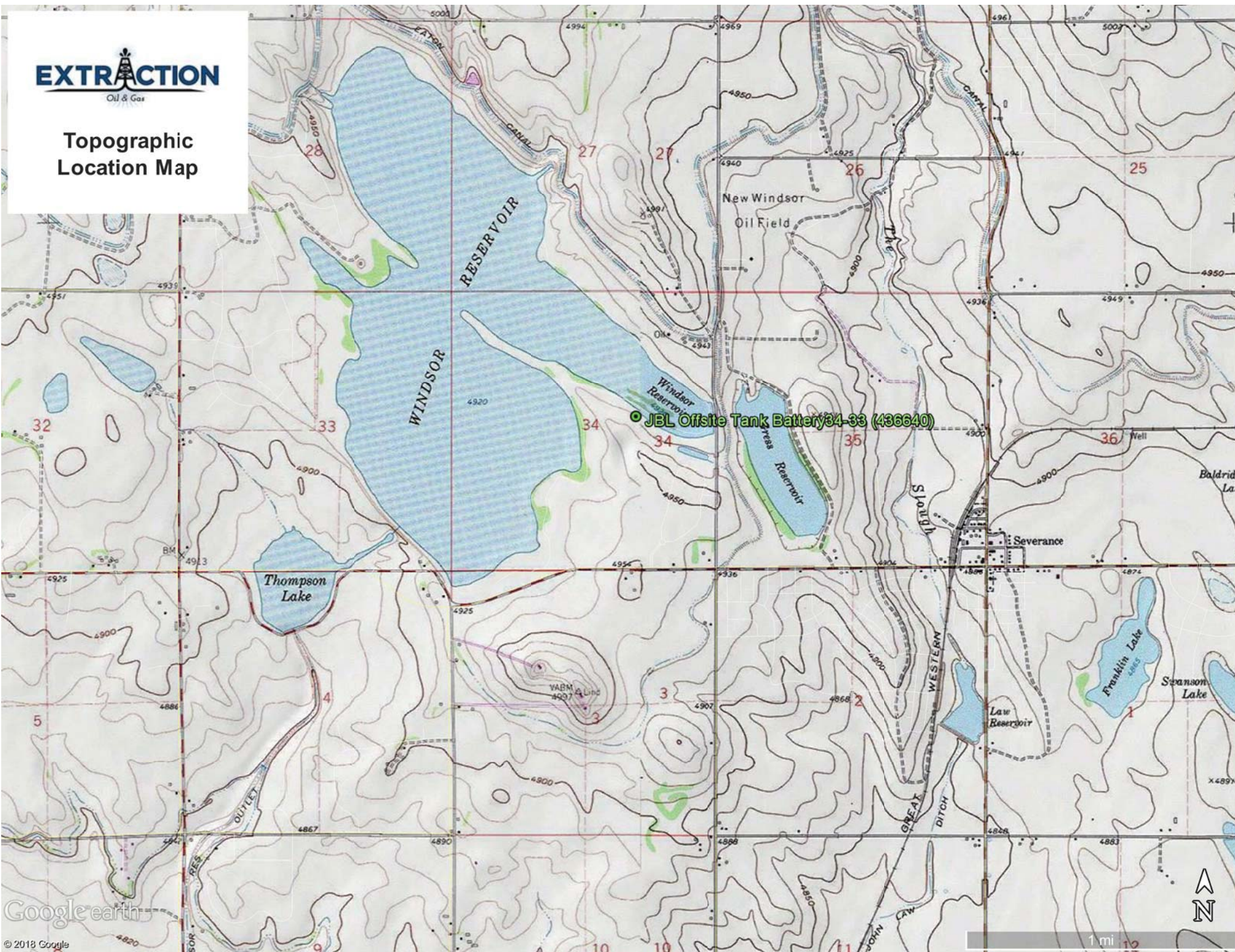
Sincerely,
Apex Companies, LLC

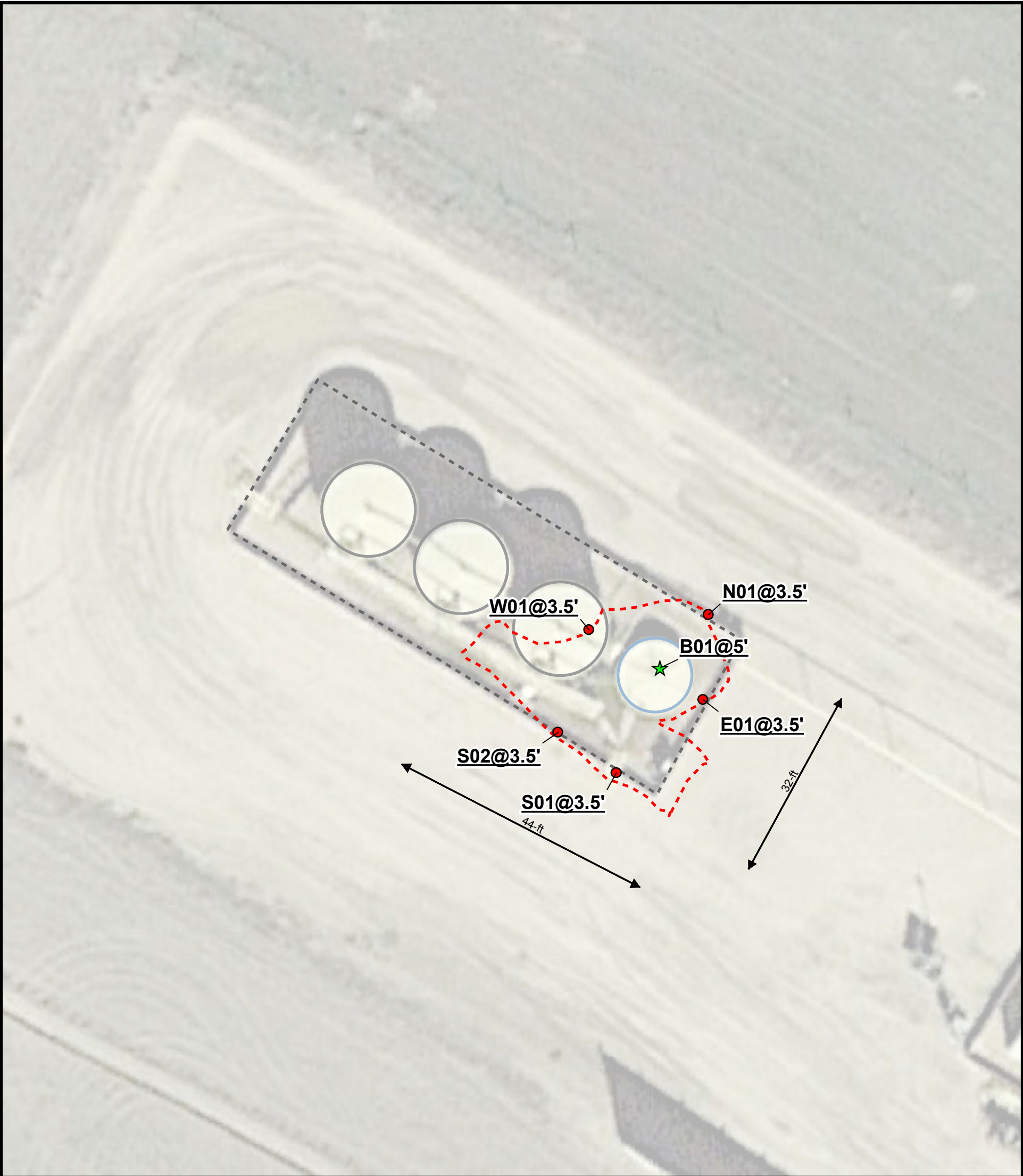


Chris Hines
Project Manager

Attachments:

1. Topographic Location Map
2. Site Diagram
3. Laboratory Results Summary Table
4. Laboratory Reports





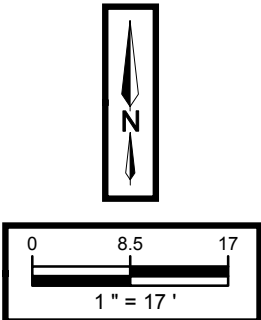
Extraction Oil and Gas
JBL Offsite Tank Battery 34-33
COGCC Location ID: 436640
Site Diagram

Legal Description: SWNE, Sec 34, T7N R67W
County: Weld
Land Use: Cropland
Topography: 3-5% Slopes
Run-Off Risk: Low
Soil Type: Wiley-Colby complex
Receiving Waters: Windsor Reservoir

- Soil Sample - No Analysis (3/30/2018)
- ★ Soil Sample - w/Lab Analysis (3/30/2018)
- - - Excavation Extent (3/30/2018)
- Former Crude Oil Tank
- Former Sump
- - - Former Secondary Containment



Sample ID	Latitude NAD83	Longitude NAD83
S01@3.5'	40.531320	-104.875843
S02@3.5'	40.531339	-104.875877
W01@3.5'	40.531384	-104.875859
B01@5'	40.531367	-104.875817
N01@3.5'	40.531391	-104.875788
E01@3.5'	40.531353	-104.875791



SOIL SAMPLE RESULTS										
		Organic Compounds in Soil (mg/kg [ppm])								
COGCC Allowable Concentration -->		500			0.17	85	100	175		
Sample Date:	Matrix Notes (Sample Point - Depth)	TPH (total volatile and extractable petroleum hydrocarbons) (TPH-GRO + TPH-DRO)	TPH-GRO (C6-C10) Low Fraction	TPH-DRO (C10-C36) High Fraction	Benzene	Toluene	Ethylbenzene	Xylenes - total		
		<0.5	<0.5	<50	<0.0050	<0.0050	<0.0050	<0.0050		
		3/30/18	B01@5'							

Spatial data collected for this project was acquired using a GPS with submeter accuracy. Illustration discrepancies may be present in this diagram due to the inherent limitations of data accuracy for both project data and the underlying aerial imagery. For consistency in data representation and adherence to spatial data correction results, illustrated data is not corrected to fit with the aerial imagery or other collected data points.

				Organics (mg/kg [ppm])							Inorganics					
	COGCC Allowable Concentration (Soil) -->			500			0.17	85	100	175	4	12				(6-9)
Location	Sample Date:	Solid/Soil Source [Vault/Sump, Spill, Pit, Cuttings, Background]	Matrix Notes [Sample Point - Depth]	TPH (total volatile and extractable petroleum hydrocarbons) (TPH-GRO + TPH-DRO)	TPH-GRO (C6-C10) Low Fraction	TPH-DRO (C10-C28) High Fraction	Benzene	Toluene	Ethylbenzene	Xylenes - total	EC (<4 mmhos/cm or 2x background)	SAR (calculation)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	pH
JBL Offsite TB	3/30/18	Vault	B01@5'	<0.5	<0.5	<50	<0.0050	<0.0050	<0.0050	<0.0050	0.445	0.830	1580	660	155	8.7

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

April 14, 2018

Blake Ford
Extraction Oil&Gas
370 17th Street Suite 5300
Denver, CO 80202
RE: JBL Offsite TB

Enclosed are the results of analyses for samples received by Summit Scientific on 03/30/18 16:55. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'P. Shrewsbury', is written over a light gray rectangular background.

Paul Shrewsbury For Ben Shrewsbury
President / Laboratory Director



Extraction Oil&Gas
370 17th Street Suite 5300
Denver CO, 80202

Project: JBL Offsite TB
Project Number: 744.1702.01-436640
Project Manager: Blake Ford

Reported:
04/14/18 18:16

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B01@5'	1804156-03	Soil	03/30/18 10:39	03/30/18 16:55

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

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

Page 1 of 1

Client: Extraction Oil & Gas- Blake Ford

Address: 370 17th Street, Suite 5300

City/State/Zip: Denver, Colorado 80202

Phone: 970.778.5956

Fax:

Sampler Name: Kennedy Whaler

Project Manager: Chris Hines- 970.261.1127

E-Mail: BFord@extractionog.com, DenverRemediation@ApexCos.onmicrosoft.com

Project Name: TBL Offsite TB

Produced water tank closure

Project Number: 744.1702.01 - 436040

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)	TPH (DRO & GRO)	BTEX	pH, SAR, EC		Hold*
S0103.5'	3/30/18	1028	1			X			X							* Run if TPH>500ppm, or benzene>0.17ppm Call Chris Hines with Questions. (970-261-1127)
S0203.5'		1034	1													
B0105'		1039	1								X	X	X			
W0103.5'		1045	1													
N0103.5'		1048	1													
E0103.5'		1052	1													
Relinquished by: <u>[Signature]</u> Date/Time: <u>3/30/18</u>				Received by: <u>[Signature]</u> Date/Time: <u>3/30/18 10:55</u>				Turn Around Time (Check)				Notes:				
Relinquished by:				Received by:				Same Day <input type="checkbox"/>				72 Hours <input type="checkbox"/>				COGCC Table 910-1 analytes. <u>ice</u>
Relinquished by:				Received by:				24 Hours <input type="checkbox"/>				Standard <input checked="" type="checkbox"/>				
Relinquished by:				Received in Lab by:				Sample Integrity:								
Date/Time:				Date/Time:				Temperature Upon Receipt: <u>8.5</u>								
								Intact: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>								

1804156

Sample Receipt Checklist

S2 Work Order:

~~1803402~~

Client:

EOG

Client Project ID:

JBL Offsite TB

Shipped Via:

p/u

Airbill #:

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

Matrix (check all that apply):

Air

☒

Soil/Solid

☐

Water

☐

Other:

(Describe)

Temp (°C)

8.5

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.		<input checked="" type="checkbox"/>		ice
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
If custody seals are present, are they intact ⁽¹⁾ ?			<input checked="" type="checkbox"/>	
Are short holding time analytes or samples due within 48 hours present?			<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ? 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⁾ ? Record the pH in Comments.			<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Custodian Printed Name or Initials

CS

Signature of Custodian

C. King

Date/Time

3/30/18 18:20



Extraction Oil&Gas
370 17th Street Suite 5300
Denver CO, 80202

Project: JBL Offsite TB
Project Number: 744.1702.01-436640
Project Manager: Blake Ford

Reported:
04/14/18 18:16

B01@5'
1804156-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/30/18 10:39**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	1804019	04/09/18	04/09/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/30/18 10:39**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		112 %	75-125		"	"	"	"	
Surrogate: Toluene-d8		97.0 %	81-119		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	57-173		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/30/18 10:39**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1804029	03/30/18	04/10/18	EPA 8015M	

Date Sampled: **03/30/18 10:39**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		119 %	80-124		"	"	"	"	

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

Date Sampled: **03/30/18 10:39**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	1580	2.50	mg/kg dry	1	1804058	04/05/18	04/11/18	EPA 6020B	
Magnesium	660	1.00	"	"	"	"	"	"	

Summit Scientific

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370 17th Street Suite 5300
Denver CO, 80202

Project: JBL Offsite TB
Project Number: 744.1702.01-436640
Project Manager: Blake Ford

Reported:
04/14/18 18:16

B01@5'
1804156-03 (Soil)

Summit Scientific

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

Sodium	155	5.00	mg/kg dry	1	1804058	04/05/18	04/11/18	EPA 6020B
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Calculated Analysis

Date Sampled: **03/30/18 10:39**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.830	0.100	units	1	1804077	04/04/18	04/14/18	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/30/18 10:39**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.445	0.0100	mmhos/cm	1	1804068	04/13/18	04/13/18	EPA 120.1	
% Solids	88.4		%	"	1804075	04/07/18	04/14/18	Calculation	
pH	8.7		pH Units	"	1804076	04/01/18	04/14/18	EPA 9045D	

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Denver CO, 80202

Project: JBL Offsite TB
Project Number: 744.1702.01-436640
Project Manager: Blake Ford

Reported:
04/14/18 18:16

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 1804019 - EPA 5030 Soil MS

Blank (1804019-BLK1)

Prepared & Analyzed: 03/30/18

Benzene	ND	0.0050	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
m,p-Xylene	ND	0.010	"							
o-Xylene	ND	0.0050	"							
Xylenes (total)	ND	0.0050	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0345		"	0.0396		87.1	75-125			
Surrogate: Toluene-d8	0.0369		"	0.0400		92.3	81-119			
Surrogate: 4-Bromofluorobenzene	0.0369		"	0.0400		92.2	57-173			

LCS (1804019-BS1)

Prepared & Analyzed: 03/30/18

Benzene	0.133	0.0050	mg/kg	0.150		88.4	86-121			
Toluene	0.133	0.0050	"	0.150		88.5	76-137			
Ethylbenzene	0.138	0.0050	"	0.150		92.1	76-137			
m,p-Xylene	0.273	0.010	"	0.300		91.0	76-137			
o-Xylene	0.138	0.0050	"	0.150		91.9	76-137			
Xylenes (total)	0.411	0.0050	"				76-137			
Gasoline Range Hydrocarbons	21.0	0.50	"				0-200			
Surrogate: 1,2-Dichloroethane-d4	0.0356		"	0.0396		89.8	75-125			
Surrogate: Toluene-d8	0.0375		"	0.0400		93.8	81-119			
Surrogate: 4-Bromofluorobenzene	0.0366		"	0.0400		91.6	57-173			

Matrix Spike (1804019-MS1)

Source: 1804144-01

Prepared & Analyzed: 03/30/18

Benzene	0.142	0.0050	mg/kg	0.150	ND	94.5	86-121			
Toluene	0.140	0.0050	"	0.150	ND	93.2	76-137			
Ethylbenzene	0.149	0.0050	"	0.150	ND	99.6	76-137			
m,p-Xylene	0.289	0.010	"	0.300	0.0700	73.0	69-137			
o-Xylene	0.144	0.0050	"	0.150	ND	95.7	76-137			
Xylenes (total)	0.433	0.0050	"		0.0700		76-137			
Gasoline Range Hydrocarbons	20.4	0.50	"		0.226		76-76			
Surrogate: 1,2-Dichloroethane-d4	0.0359		"	0.0396		90.7	75-125			
Surrogate: Toluene-d8	0.0375		"	0.0400		93.8	81-119			
Surrogate: 4-Bromofluorobenzene	0.0370		"	0.0400		92.6	57-173			

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Extraction Oil&Gas
370 17th Street Suite 5300
Denver CO, 80202

Project: JBL Offsite TB
Project Number: 744.1702.01-436640
Project Manager: Blake Ford

Reported:
04/14/18 18:16

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 1804019 - EPA 5030 Soil MS

Matrix Spike Dup (1804019-MSD1)		Source: 1804144-01			Prepared & Analyzed: 03/30/18					
Benzene	0.145	0.0050	mg/kg	0.150	ND	96.7	86-121	2.36	20	
Toluene	0.143	0.0050	"	0.150	ND	95.3	76-137	2.31	20	
Ethylbenzene	0.148	0.0050	"	0.150	ND	98.9	76-137	0.726	20	
m,p-Xylene	0.285	0.010	"	0.300	0.0700	71.6	69-137	1.43	20	
o-Xylene	0.142	0.0050	"	0.150	ND	94.8	76-137	0.945	20	
Xylenes (total)	0.427	0.0050	"		0.0700		76-137	1.27	20	
Gasoline Range Hydrocarbons	19.9	0.50	"		0.226		76-76	2.38	20	
Surrogate: 1,2-Dichloroethane-d4	0.0364		"	0.0396		92.0	75-125			
Surrogate: Toluene-d8	0.0376		"	0.0400		94.0	81-119			
Surrogate: 4-Bromofluorobenzene	0.0376		"	0.0400		93.9	57-173			

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Extraction Oil&Gas
370 17th Street Suite 5300
Denver CO, 80202

Project: JBL Offsite TB
Project Number: 744.1702.01-436640
Project Manager: Blake Ford

Reported:
04/14/18 18:16

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 1804029 - EPA 3550A

Blank (1804029-BLK1)

Prepared & Analyzed: 03/30/18

C10-C28 (DRO) ND 50 mg/kg

LCS (1804029-BS1)

Prepared & Analyzed: 03/30/18

C10-C28 (DRO) 510 50 mg/kg 500 102 81.4-129

Matrix Spike (1804029-MS1)

Source: 1804144-01

Prepared & Analyzed: 03/30/18

C10-C28 (DRO) 478 50 mg/kg 500 11.9 93.3 77.8-133

Matrix Spike Dup (1804029-MSD1)

Source: 1804144-01

Prepared & Analyzed: 03/30/18

C10-C28 (DRO) 458 50 mg/kg 500 11.9 89.3 77.8-133 4.24 8.48

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Denver CO, 80202

Project: JBL Offsite TB
Project Number: 744.1702.01-436640
Project Manager: Blake Ford

Reported:
04/14/18 18:16

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

Analyte	Reporting			Spike Level	Source		%REC		RPD	
	Result	Limit	Units		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

Summit Scientific

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Extraction Oil&Gas
370 17th Street Suite 5300
Denver CO, 80202

Project: JBL Offsite TB
Project Number: 744.1702.01-436640
Project Manager: Blake Ford

Reported:
04/14/18 18:16

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 1804068 - General Preparation

Blank (1804068-BLK1) Prepared & Analyzed: 04/13/18

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (1804068-BS1) Prepared & Analyzed: 04/13/18

Specific Conductance (EC) 0.786 0.0100 mmhos/cm 80-120

Duplicate (1804068-DUP1) Source: 1804004-02 Prepared & Analyzed: 04/13/18

Specific Conductance (EC) 0.446 0.0100 mmhos/cm 0.410 8.33 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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Extraction Oil&Gas
370 17th Street Suite 5300
Denver CO, 80202

Project: JBL Offsite TB
Project Number: 744.1702.01-436640
Project Manager: Blake Ford

Reported:
04/14/18 18:16

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