



Conditional Approval:

- 1.) Please sample additional points (added to map below).
- 2.) Will review work-plan once delineation has been completed.

Thanks,

Kristen Lynch
NMOCD

PO Box 2948 | Hobbs, NM 88241 | Phone 575.393.2967

September 13, 2016

Attn. Jamie Keyes

Environmental Specialists, District 1
Oil Conservation Division, EMNRD
1625 N. French Drive
Hobbs, NM 88240

**RE: Path Forward
Robinson Oil
Wallen Tonto Federal 19-1 Tank Battery
UL/K&N sec. 30 T19S R33E
1RP – 4201 & 1RP - 4424**

Ms. Jones:

Robinson Oil (Robinson) has retained Basin Environmental Service Technologies (Basin) to address potential environmental concerns at the above-referenced site.

Background and Previous Work

The site is located approximately four and one-half (4.5) miles northeast of the intersection of NM Highway 176 and Highway 62/180 between Hobbs and Carlsbad, New Mexico at Unit Letters K and N of Section 30 in Township 19 South of Range 33 East. This site is located in an area where groundwater is anticipated to be at approximately one hundred eighty-five (185) feet below ground surface (bgs).

At some time in 2015, a release was discovered at the Wallen Tonto Federal 19-1 Tank Battery (Wallen) site of approximately nineteen (19) barrels (bbls) of crude oil when a leak occurred in a flow line (1RP-4201). Approximately 17 bbls were recovered. Approximately three-thousand two-hundred twenty-eight (3,228) square feet (ft²) of pasture was impacted as well as approximately five-thousand eight-hundred forty-five (5,845) of battery pad. New Mexico Oil Conservation Division (NMOCD) was notified of the release on approximately January 4th, 2016, and an initial C-141 was submitted to NMOCD on January 4th, 2016, for approval.

On August 24th, 2016, a lightning strike occurred at the Wallen, destroying numerous tanks and causing a release of approximately three-hundred and fifty (350) bbls of produced water and fifty (50) bbls of crude oil. Approximately 50 bbls of produced water and twenty (20) bbls of crude oil were recovered. Most of the release was confined to the secondary containment of the tank battery. A small portion of the release reached the pasture above previously impacted soil. The NMOCD was notified of the release on August 24th, 2016, and C-141 was submitted on August 24th, 2016 (1RP-4424).

Basin personnel were on site beginning February 2nd, 2016, to begin delineation activities. Five (5) sample points within the release area were established. The sample points, (1, 2, 3, 4, 5), from the release area were field tested for chlorides and organic vapors. Confirmatory samples were submitted to a NMOCD approved and certified laboratory. Chloride, gasoline Range organics (GRO), diesel range organics (DRO) and extended diesel range organics (ORO) concentrations were analyzed.

Corrective Action Plan

Sample points (South, North) returned laboratory chloride concentrations that exceeded the regulatory guidelines at the surface. Sample point South had an elevated chloride concentration at three (3) feet bgs while sample point North exhibited elevated total petroleum hydrocarbons (TPH) above the regulatory limit at five and one-half (5.5) feet bgs. Therefore, further delineation will occur until both sample points are within the NMOCD limits for chlorides (250 mg/kg) and a concentration from a photo-ionization detector (PID) of less than 100 mg/kg.

At the completion of delineation, the impacted soils in the tank battery will be excavated to a maximum depth of two (2) feet bgs. Clean backfill will be applied to the excavated area, bringing it back to ground surface. At the surface, an impervious surface containment will be installed in order to prevent migration of contaminants into the vadose zone and mitigate any further releases. The excavated area in the pasture will be backfill with clean, non-impacted material and contoured to the surrounding area. The pasture will be seeded with land-owner approved, native, non-invasive or noxious vegetation at a time conducive for germination.

The supporting documentation for this Corrective Action Plan is attached.

Basin appreciates the opportunity to work with you on this project. Please contact me if you have any questions or wish to discuss the site.

Sincerely,



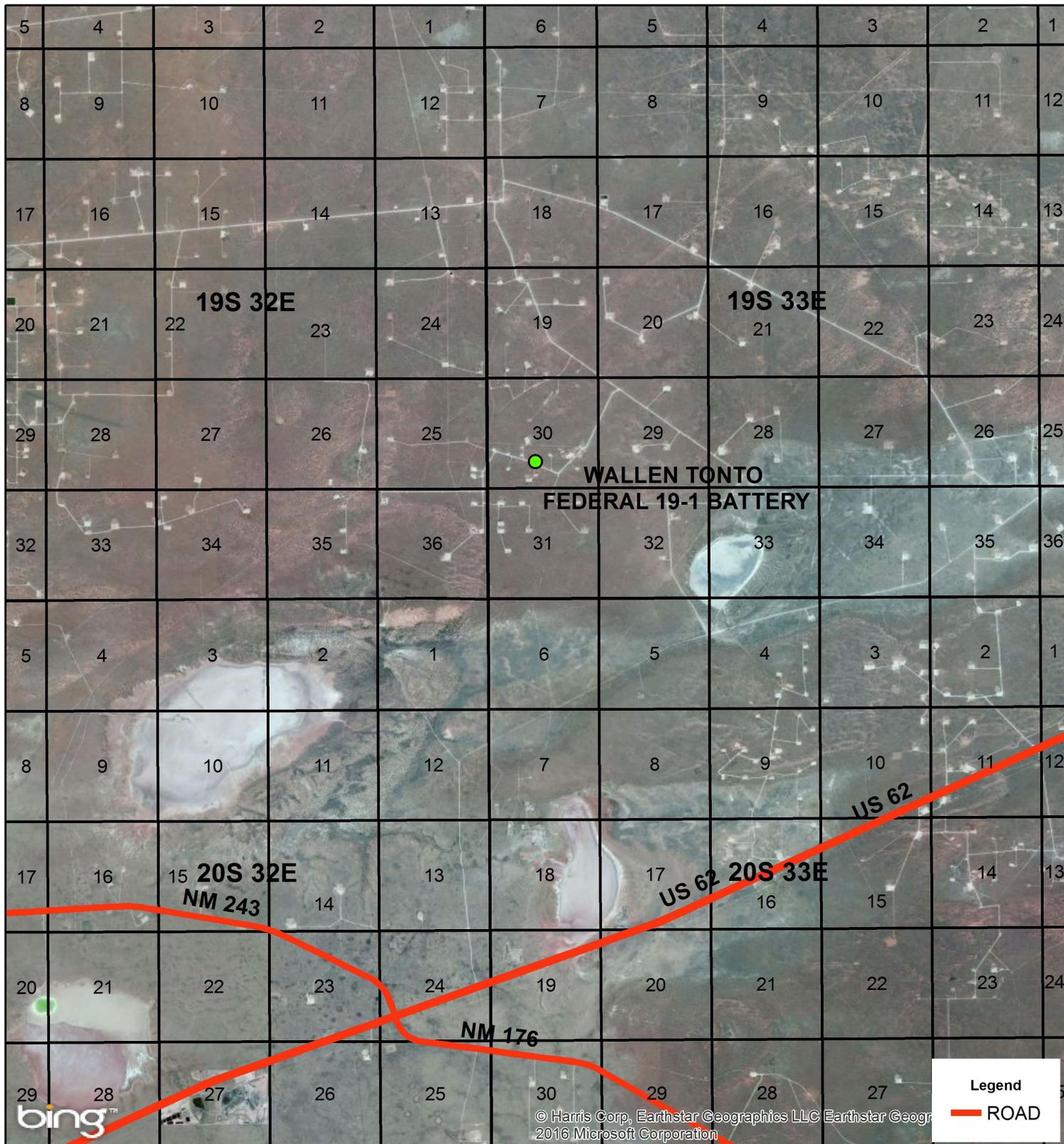
Robbie Runnels
Project Manager
Basin Environmental Service Technologies
(575) 393-2967

Attachments:

- Figure 1 – Site Location Map
- Figure 2 - Initial Sampling Data
- Appendix A – Initial C-141
- Appendix B – Laboratory Analysis
- Appendix C – Photo Documentation

FIGURES

Area Map



ROBINSON OIL WALLEN TONTO FED 19-1 BATTERY

UL K & N SECTION 30
T-19-S R-33-E
LEA COUNTY, NM

GPS: 32.627550 -103.703716

Figure 1

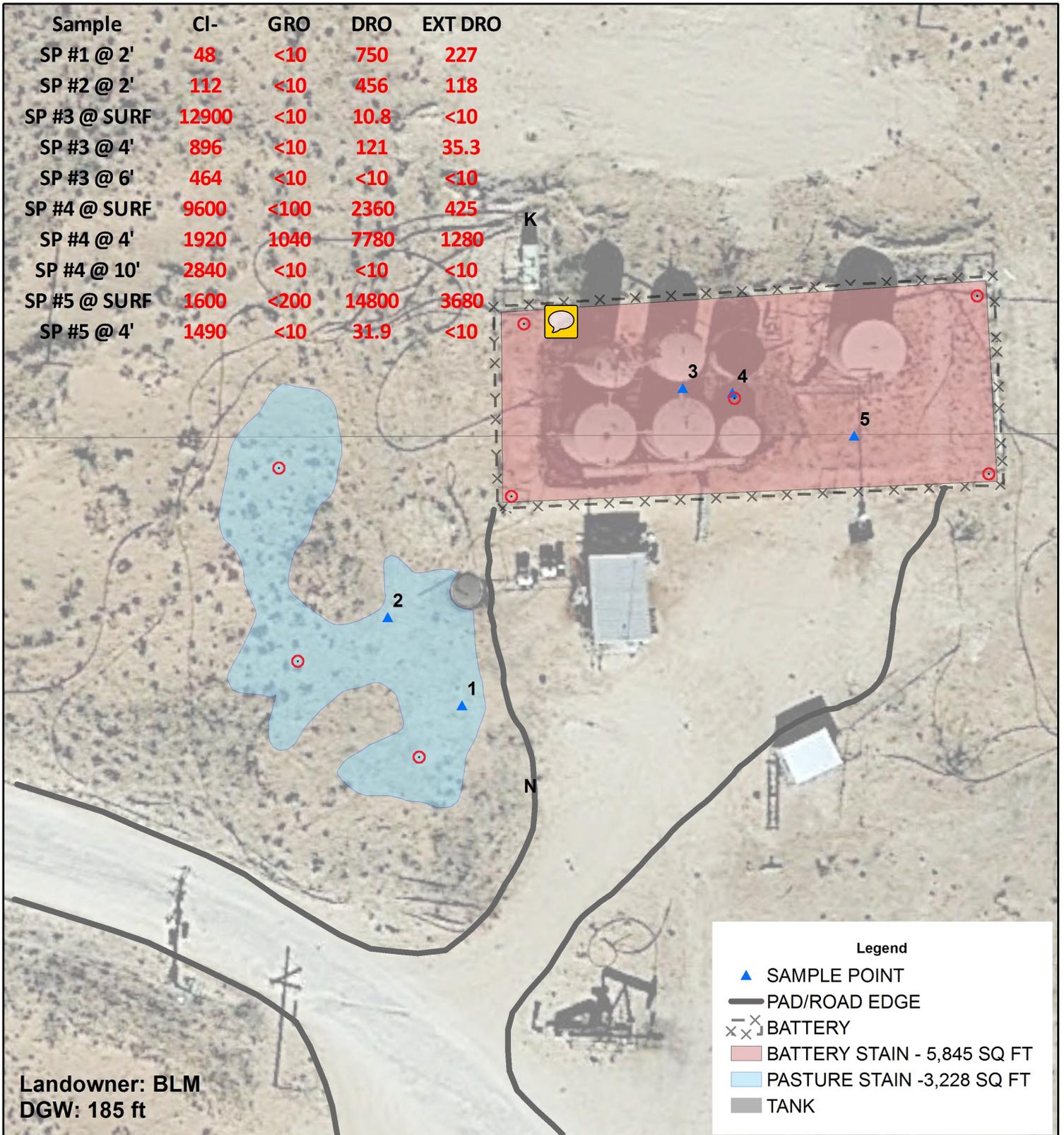
0 0.5 1
Miles

Drawing date: 3/8/16
Drafted by: T. Grieco



Initial Sampling

Sample	Cl-	GRO	DRO	EXT DRO
SP #1 @ 2'	48	<10	750	227
SP #2 @ 2'	112	<10	456	118
SP #3 @ SURF	12900	<10	10.8	<10
SP #3 @ 4'	896	<10	121	35.3
SP #3 @ 6'	464	<10	<10	<10
SP #4 @ SURF	9600	<100	2360	425
SP #4 @ 4'	1920	1040	7780	1280
SP #4 @ 10'	2840	<10	<10	<10
SP #5 @ SURF	1600	<200	14800	3680
SP #5 @ 4'	1490	<10	31.9	<10



Landowner: BLM
DGW: 185 ft

Legend

- ▲ SAMPLE POINT
- PAD/ROAD EDGE
- XX BATTERY
- BATTERY STAIN - 5,845 SQ FT
- PASTURE STAIN - 3,228 SQ FT
- TANK



ROBINSON OIL WALLEN TONTO FED 19-1 BATTERY

UL K & N SECTION 30
T-19-S R-33-E
LEA COUNTY, NM

Underground facilities are spatially projected and need to be field verified.

GPS: 32.627550 -103.703716

0 10 20
HHH Feet

GPS date: 2/25/16 ST
Drawing date: 2/29/16
Drafted by: T. Grieco

APPENDICES

APPENDIX A

C-141

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 86210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

RECEIVED

By JKeyes at 2:00 pm, Mar 08, 2016

Form C-141

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company <u>Robinson Oil</u>	Contact <u>JASON ROBINSON</u>
Address <u>P.O. Box 1829</u>	Telephone No. <u>432-234-8714</u>
Facility Name <u>WALLEN TONTO</u>	Facility Type <u>Oil</u>
Surface Owner	Mineral Owner
API No. <u>3002525371</u>	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County

Latitude 32.6267 Longitude 103.7036

NATURE OF RELEASE

Type of Release <u>OIL + WATER</u>	Volume of Release <u>19 BBIS</u>	Volume Recovered <u>17 BBIS</u>
Source of Release	Date and Hour of Occurrence	Date and Hour of Discovery
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.*		

Describe Cause of Problem and Remedial Action Taken.*

Leak in flowline, REPAIRED, PULLED OUT WET SOIL + PROCESS IS ONGOING. PANTHER ENERGY PERFORMED ON SITE TESTING,

Describe Area Affected and Cleanup Action Taken.* AS SOON AS SNOW MELTS PULL OUT 1" OF DIRT PRESSURE WASH STOCK TANKS. THEN REMOVE 3 MORE FEET OF SOIL. RESAMPLE AT THAT POINT IF NEEDED. IF NOT REPLACE WITH PACKED CALICHE DIRT. ALSO OUTSIDE BATTERY TO THE WEST HAVE BAD AREA, PULL OUT AS MUCH BAD SOIL AS POSSIBLE + REPLACE WITH CLEAN SOIL + RESEED.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

OIL CONSERVATION DIVISION

Signature: <u>JASON ROBINSON</u>	Approved by Environmental Specialist: <u>[Signature]</u>	
Printed Name: <u>JASON ROBINSON</u>	Approval Date: <u>03/08/2016</u>	Expiration Date: <u>05/08/2016</u>
Title: <u>PRESIDENT</u>	Conditions of Approval: <u>Discrete site samples only. Delineate and remediate per NMOCD guidelines. Ensure BLM concurrence/approval.</u>	
E-mail Address: <u>ZEKEZENA.LUDY@ADL.COM</u>	Attached <input type="checkbox"/> <u>IRP 4201</u>	
Date: <u>1-4-2016</u> Phone: _____	nJXK1606850185 pJXK1606850256	

* Attach Additional Sheets If Necessary

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

RECEIVED

By JKeyes at 7:24 am, Aug 31, 2016

Form C-141
August 18, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company	Robinson Oil	Contact	Jason Robinson
Address	P.O. Box 1829	Telephone No.	432-234-8714
Facility Name	Wallen Tonto Federal 19-1 Battery	Facility Type	Tank Battery

Surface Owner	BLM	Mineral Owner		API No.	3002525371
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LOCATION OF RELEASE

Unit Letter K&N	Section 30	Township 19S	Range 33E	Feet from the	North/South Line	Feet from the	East/West Line	County Lea
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Latitude 32.627550 Longitude -103.703716

NATURE OF RELEASE

Type of Release	Produced Water/Crude oil	Volume of Release	350/50	Volume Recovered	240/20
Source of Release		Date and Hour of Occurrence	8/23/16 @ unknown	Date and Hour of Discovery	8/24/16 @ 8 a.m.
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? NMOCD and BLM			
By Whom?	Robbie Runnels	Date and Hour	8/24/16 12:45		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

Lightning struck battery and caused tanks to rupture. Vacuum trucks were dispatched to recover fluids on surface.

Describe Area Affected and Cleanup Action Taken.*

Vacuum trucks recovered approximately 260 barrels of fluid. About 200 square feet of pasture was impacted. Most of release contained inside secondary containment. Site will be remediated once work plan is approved.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature:


OIL CONSERVATION DIVISION
Approved by Environmental Specialist: 

Printed Name: Robbie Runnels (acting agent for Robinson Oil)

Title: Project Manager

Approval Date: 08/31/2016 Expiration Date: 10/31/2016

E-mail Address: rrunnels@basinenv.com

Conditions of Approval:
Discrete samples only. Delineate and remediate per NMOCD guidelines. Ensure BLM concurrence/

Date: 8/26/2016 Phone: 575-396-2378

Attached IRP 4424

* Attach Additional Sheets If Necessary

approval.

nJXK1624426331
pJXK1624426423

APPENDIX B
Laboratory Analysis



February 09, 2016

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: ROBINSON OIL TONTO

Enclosed are the results of analyses for samples received by the laboratory on 02/04/16 16:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 Basin Environmental Service
 BEN J. ARGUIJO
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received:	02/04/2016	Sampling Date:	02/02/2016
Reported:	02/09/2016	Sampling Type:	Soil
Project Name:	ROBINSON OIL TONTO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP #1 @ 2' (H600255-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/08/2016	ND	448	112	400	7.41	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/05/2016	ND	196	97.8	200	3.35	
DRO >C10-C28	750	10.0	02/05/2016	ND	192	96.1	200	4.12	
EXT DRO >C28-C35	227	10.0	02/05/2016	ND					

Surrogate: 1-Chlorooctane 75.7 % 35-147
 Surrogate: 1-Chlorooctadecane 106 % 28-171

Sample ID: SP #2 @ 2' (H600255-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	02/08/2016	ND	448	112	400	7.41	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/05/2016	ND	196	97.8	200	3.35	
DRO >C10-C28	456	10.0	02/05/2016	ND	192	96.1	200	4.12	
EXT DRO >C28-C35	118	10.0	02/05/2016	ND					

Surrogate: 1-Chlorooctane 75.9 % 35-147
 Surrogate: 1-Chlorooctadecane 92.6 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Basin Environmental Service
 BEN J. ARGUIJO
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received:	02/04/2016	Sampling Date:	02/02/2016
Reported:	02/09/2016	Sampling Type:	Soil
Project Name:	ROBINSON OIL TONTO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP #3 @ SURFACE (H600255-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12900	16.0	02/08/2016	ND	448	112	400	7.41	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/05/2016	ND	196	97.8	200	3.35	
DRO >C10-C28	10.8	10.0	02/05/2016	ND	192	96.1	200	4.12	
EXT DRO >C28-C35	<10.0	10.0	02/05/2016	ND					
<i>Surrogate: 1-Chlorooctane</i>		<i>69.6 %</i>	<i>35-147</i>						
<i>Surrogate: 1-Chlorooctadecane</i>		<i>77.5 %</i>	<i>28-171</i>						

Sample ID: SP #3 @ 4' (H600255-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	896	16.0	02/08/2016	ND	448	112	400	7.41	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/05/2016	ND	196	97.8	200	3.35	
DRO >C10-C28	121	10.0	02/05/2016	ND	192	96.1	200	4.12	
EXT DRO >C28-C35	35.3	10.0	02/05/2016	ND					
<i>Surrogate: 1-Chlorooctane</i>		<i>71.5 %</i>	<i>35-147</i>						
<i>Surrogate: 1-Chlorooctadecane</i>		<i>74.9 %</i>	<i>28-171</i>						

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Basin Environmental Service
 BEN J. ARGUIJO
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received:	02/04/2016	Sampling Date:	02/02/2016
Reported:	02/09/2016	Sampling Type:	Soil
Project Name:	ROBINSON OIL TONTO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP #3 @ 6' (H600255-05)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	02/08/2016	ND	448	112	400	7.41	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/05/2016	ND	196	97.8	200	3.35	
DRO >C10-C28	<10.0	10.0	02/05/2016	ND	192	96.1	200	4.12	
EXT DRO >C28-C35	<10.0	10.0	02/05/2016	ND					
<i>Surrogate: 1-Chlorooctane</i>	<i>66.9 %</i>	<i>35-147</i>							
<i>Surrogate: 1-Chlorooctadecane</i>	<i>76.2 %</i>	<i>28-171</i>							

Sample ID: SP #4 @ SURFACE (H600255-06)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9600	16.0	02/08/2016	ND	448	112	400	7.41	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<100	100	02/05/2016	ND	196	97.8	200	3.35	
DRO >C10-C28	2360	100	02/05/2016	ND	192	96.1	200	4.12	
EXT DRO >C28-C35	425	100	02/05/2016	ND					
<i>Surrogate: 1-Chlorooctane</i>	<i>53.7 %</i>	<i>35-147</i>							
<i>Surrogate: 1-Chlorooctadecane</i>	<i>102 %</i>	<i>28-171</i>							

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Basin Environmental Service
 BEN J. ARGUIJO
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received:	02/04/2016	Sampling Date:	02/02/2016
Reported:	02/09/2016	Sampling Type:	Soil
Project Name:	ROBINSON OIL TONTO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP #4 @ 4' (H600255-07)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1920	16.0	02/08/2016	ND	448	112	400	7.41	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1040	200	02/05/2016	ND	196	97.8	200	3.35	
DRO >C10-C28	7780	200	02/05/2016	ND	192	96.1	200	4.12	
EXT DRO >C28-C35	1280	200	02/05/2016	ND					

Surrogate: 1-Chlorooctane 117 % 35-147
 Surrogate: 1-Chlorooctadecane 163 % 28-171

Sample ID: SP #4 @ 10' (H600255-08)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2840	16.0	02/08/2016	ND	448	112	400	7.41	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/05/2016	ND	205	103	200	1.80	
DRO >C10-C28	<10.0	10.0	02/05/2016	ND	206	103	200	3.13	
EXT DRO >C28-C35	<10.0	10.0	02/05/2016	ND					

Surrogate: 1-Chlorooctane 63.4 % 35-147
 Surrogate: 1-Chlorooctadecane 74.5 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Basin Environmental Service
 BEN J. ARGUIJO
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received:	02/04/2016	Sampling Date:	02/02/2016
Reported:	02/09/2016	Sampling Type:	Soil
Project Name:	ROBINSON OIL TONTO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP #5 @ SURFACE (H600255-09)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1600	16.0	02/08/2016	ND	448	112	400	7.41		
TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<200	200	02/05/2016	ND	205	103	200	1.80		
DRO >C10-C28	14800	200	02/05/2016	ND	206	103	200	3.13		
EXT DRO >C28-C35	3680	200	02/05/2016	ND						
<i>Surrogate: 1-Chlorooctane</i>	<i>60.1 %</i>	<i>35-147</i>								
<i>Surrogate: 1-Chlorooctadecane</i>	<i>364 %</i>	<i>28-171</i>								

Sample ID: SP #5 @ 4' (H600255-10)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1490	16.0	02/08/2016	ND	448	112	400	7.41	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/05/2016	ND	205	103	200	1.80	
DRO >C10-C28	31.9	10.0	02/05/2016	ND	206	103	200	3.13	
EXT DRO >C28-C35	<10.0	10.0	02/05/2016	ND					
<i>Surrogate: 1-Chlorooctane</i>	<i>70.8 %</i>	<i>35-147</i>							
<i>Surrogate: 1-Chlorooctadecane</i>	<i>78.1 %</i>	<i>28-171</i>							

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report



Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES
 101 East Marland, Hobbs, NM 88240
 (575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: Basin Environmental Service Technologies, LLC

Project Manager: Ben Argujio

Address: P.O. Box 301

City: Lovington State: NM Zip: 88260

Phone #: (575)396-2378 Fax #: (575)396-1429

Project #: Project Owner: Robinson Oil

Project Name: Robinson Oil Tonto

Project Location: Lea

Sampler Name: Bill Wooley

FOR LAB USE ONLY

P.O. #:

Company: Basin Env.

Attn: Jody

Address: P.O. Box 301

City: Lovington

State: NM Zip: 88260

Phone #: (575) 396-2378

Fax #: (575) 396-1429

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						ACID/BASE:	ICE / COOL	DATE	TIME	ANALYSIS REQUEST			
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					Chloride	TPH (8015M)	BTEX (8021B)	
H600255	SP#1 @ 2'	g	1	X							2/2/2016	12:30	X	X			
	SP#2 @ 2'	g	1	X							2/2/2016	12:35	X	X			
	SP#3 @ surface	g	1	X							2/2/2016	12:40	X	X			
	SP#3 @ 4'	g	1	X							2/2/2016	13:15	X	X			
	SP#3 @ 6'	g	1	X							2/2/2016	13:30	X	X			
	SP#4 @ surface	g	1	X							2/2/2016	12:45	X	X			
	SP#4 @ 4'	g	1	X							2/2/2016	13:20	X	X			
	SP#4 @ 10'	g	1	X							2/2/2016	14:25	X	X			
	SP#5 @ surface	g	1	X							2/2/2016	12:50	X	X			
	SP#5 @ 4'	g	1	X							2/2/2016	13:25	X	X			

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Relinquished By: *Bill Wooley* Date: *2-1-16* Received By: *Spacie Henderson*

Relinquished By: *Spacie Henderson* Date: *16:00* Received By: *Spacie Henderson*

Delivered By: (Circle One) *2.42* Sample Condition: Intact Cool Yes No

Sampler - UPS - Bus - Other: *2.42* CHECKED BY: *[Signature]*

REMARKS:
 Phone Result: Yes No Add'l Phone #:
 Fax Result: Yes No Add'l Fax #:
 Please email results to pm@basinenv.com & Tasevotoe@BassPet.com

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

APPENDIX C
Photo Documentation

Robinson Oil – Wallen Tonto Federal 19-1 Battery

Unit Letter K & N, Section 30, T19S, R33E



Release area

2/24/16



Release area

2/24/16



Release area

2/24/16



Release area

8/24/16