



**RECEIVED**

*By JKeyes at 9:25 am, Jul 11, 2016*

**NOT APPROVED**

# CONOCOPHILLIPS

P.O. Box 2197  
Houston, TX 77252-2197  
Phone 281.293.1000

## EVGSAU Satellite #05 (1RP-3775)

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# Corrective Action Plan

API No. 30-025-26395

Release Date: August 3<sup>rd</sup>, 2015

Unit Letter F, Section 26, Township 17S, Range 35E



PO Box 2948 | Hobbs, NM 88241 | Phone 575.393.2967

**July 7<sup>th</sup>, 2016**

**Jamie Keyes**

Environmental Specialist – New Mexico Oil Conservation Division  
Energy, Minerals and Natural Resources Department  
1625 N. French Dr.  
Hobbs, NM 88240

**RE: Corrective Action Plan  
ConocoPhillips EVGSAU Satellite 5 (1RP-3755)  
UL/F sec. 26 T17S R35E  
API No. 30-025-26395**

Mr. Keyes:

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

**Background and Previous Work**

The site is located approximately 4.3 miles east of Buckeye, New Mexico at UL/F sec. 26 T17S R35E. NM OSE, BLM and Basin installed monitor well records indicate that groundwater will likely be encountered at a depth of approximately 57 +/- feet.

On August 3<sup>rd</sup>, 2015, CoP discovered a release from a transfer pump. A total of 31 barrels of produced water and 1 barrel of oil was released over 13,268 sq ft of caliche pad and pasture land. 29 barrels of produce water and 1 barrel of oil was recovered. NMOCD was notified of the release on August 3<sup>th</sup>, 2015, and an initial C-141 same day. NMOCD approved the initial C-141 on August 4<sup>th</sup>, 2015 (Appendix A).

Basin personnel were on site to assess the release August 8<sup>th</sup>, 2015. The release was mapped and photographed (Figure 1). On May 26<sup>th</sup>, 2016, samples were taken at the surface and with depth using a hand augur. On June 28<sup>th</sup>, 2016 verticals were installed at point 1-3 and all samples were field tested for chlorides and organic vapors. Representative samples were taken to a commercial laboratory for analysis (Appendix B).

Photo Documentation of these activities may be found in Appendix C.

**Corrective Action Plan**

Based on the assessment, the release area in the facility will be hand shoveled to 6” due to safety concerns with mechanical equipment in the facility, discreet bottom samples will be collected in

the 6" scrape. The release area around points 1, 2 & 3 will be excavated to a depth of 3.5ft bgs and at the base of the excavation around points 1 & 3 a 6" clay layer liner will be installed and properly seated throughout the excavation. Once the excavation is completed, discreet samples from the wall of all excavations will be taken and field tested for chlorides and organic vapors. If the field data indicates that the samples will not achieve chloride, Gasoline Range Organics (GRO) and Diesel Range Organics (DRO) readings below regulatory standards, the wall will be extended until field testing indicates that all constituents from the wall samples will return values below regulatory standards. Representative samples will then be taken to a commercial laboratory to confirm that all constituents return readings are below regulatory standards.

There are buried and surface lines running throughout the release. To provide for the safety of people and equipment at the site, the excavation will remain 3 to 5 ft away from the buried and surface lines.

All excavated soil will be taken to a NMOCD approved facility for disposal. Clean soil will be imported to the site to serve as backfill. A sample of the backfill soil will be taken to a commercial laboratory to confirm that the chloride reading is below regulatory standards. The lease pad will be backfilled with clean, imported caliche. The site will be contoured to the surrounding location.

Once these activities have been completed, a report will be sent to NMOCD requesting 'remediation termination' and site closure.

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,

A handwritten signature in black ink that reads "Kyle Norman" followed by a horizontal line.

Kyle Norman  
Project Lead  
Basin Environmental Service Technologies  
(575) 942-8542

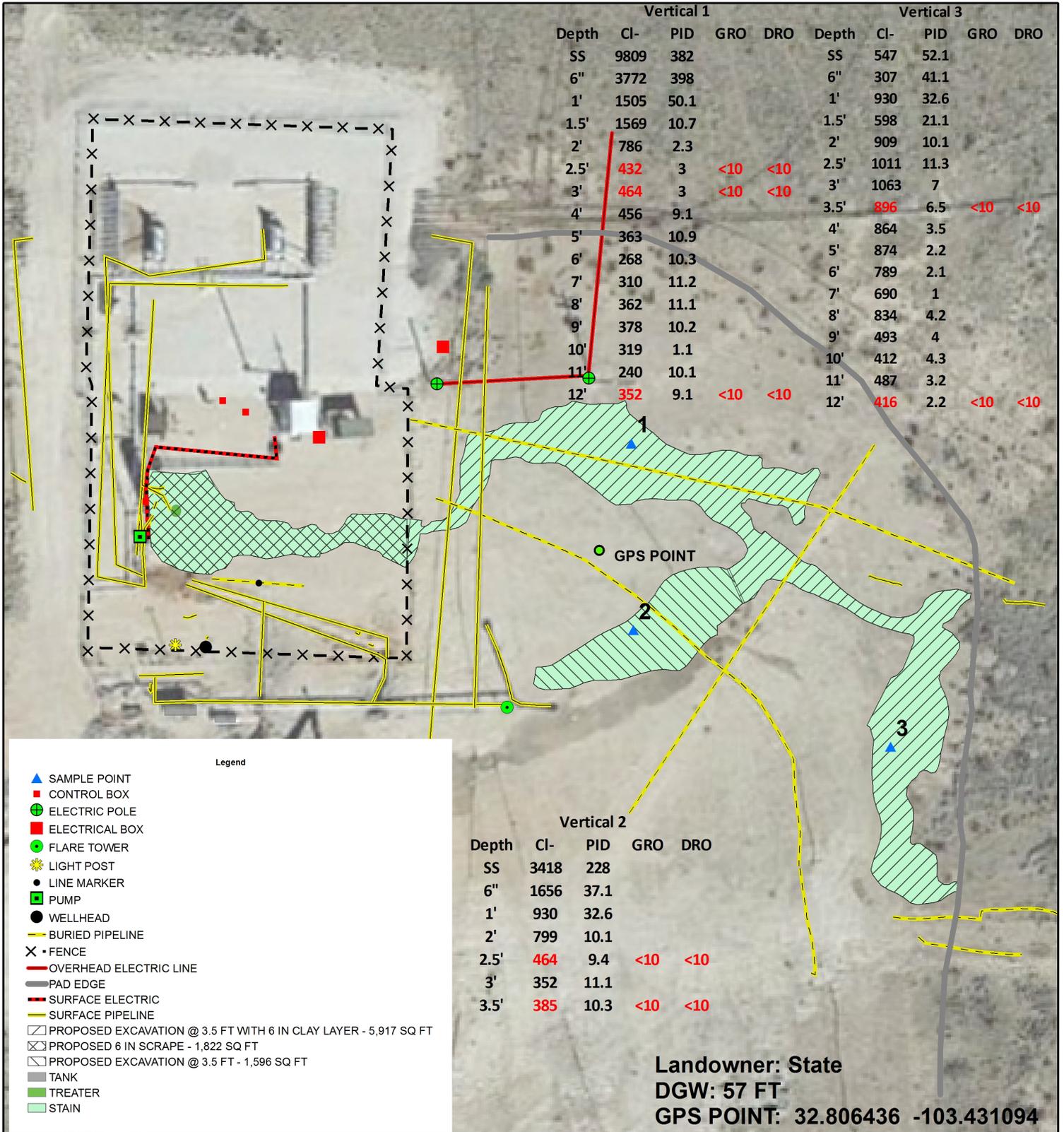
Attachments:

- Figure 1 – Proposed Excavation
- Appendix A – Initial C-141
- Appendix B – Laboratory Analysis
- Appendix C – Photo Documentation

# Figures

**Basin Environmental Service Technologies, LLC**  
P.O. Box 2948, Hobbs, NM 88241  
Phone 575.393.2967

# Proposed Excavation



**CONOCOPHILLIPS**  
**EVGSAU**  
**SATELLITE #5**  
 1RP-3775

UL F SECTION 26  
 T-17-S R-35-E  
 LEA COUNTY, NM

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

0 25 50  
 Feet

GPS date: 8/4/15 CF, 5/26/16 JK  
 Drawing date: 7/7/16  
 Drafted by: T. Grieco

# Appendix A

Intial C-141

**Basin Environmental Service Technologies, LLC**  
P.O. Box 2948 Hobbs, NM 88241  
Phone 575.393.2967

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 Natural Resources

Form C-141  
Revised August 8, 2011

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: <b>ConocoPhillips</b>	Contact: <b>Jay Garcia</b>
Address: <b>29 Vacuum Complex Lane</b>	Telephone No. <b>575-704-2455</b>
Facility Name: <b>EVGSAU Satellite #05</b>	Facility Type: <b>Well</b>

Surface Owner: <b>NMOCD</b>	Mineral Owner:	API No. <b>30-025-26395</b>
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**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
F	26	17S	35E	2496	North	1544	West	LEA

Latitude 32.8062592 Longitude 103.431839 NAD83

**NATURE OF RELEASE**

Type of Release: <b>Leak</b>	Volume of Release: 31 bbl. produces water & 1 bbl. of oil	Volume Recovered: 39 bbl. produced water & 1 bbl. of oil due to rain storm.
Source of Release: <b>Transfer pump leak</b>	Date and Hour of Occurrence <b>08/03/2015 3:30 am</b>	Date and Hour of Discovery <b>08/03/2015 3:30 am</b>
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? <b>Tomas Oberding</b>	
By Whom? <b>Jay Garcia</b>	Date and Hour: <b>08/03/2015 3:10 pm</b>	
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.\*

**RECEIVED**  
By OCD District 1 at 7:22 am, Aug 04, 2015

ENV – Agency Reportable – 31 BPW & 1BO – EVGSAU Satellite 5 – RR II – MCBU – Buckeye – On Monday August 03, 2015 at 0330 MDT, at EVGSAU Satellite 5, MSO received a callout for EVGSAU Satellite 5 shutdown. MSO arrived on location and observed transfer pump had failed resulting in a release of 31 bbls of produced water and 1 bbl of oil, with 29 bbls of produced water and 1 bbl of oil recovered. 10 bbls of rainwater was also recovered in addition to the released fluid. Immediate action was to isolate the pump and turn in a work order for repair and remediation. The affected area will be remediated according to NMOCD and COPC guidelines. This is a Tier 3 PSE.

Consequence: 2 Likelihood: 3 RR: 2

Describe Area Affected and Cleanup Action Taken.\*  
A discharge of 31BPW & 1BO occurred with 40BBLS recovered with 10 of those BBLS being rainwater. Spill area was 180' X 20', 1/2" deep on caliche pad. Spill area will be remediated.

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: <i>Jay Garcia</i>	<b>OIL CONSERVATION DIVISION</b>
Printed Name: Jay Garcia	
Approved by Environmental Specialist: <i>Jamie [Signature]</i>	

Title: LEAD HSE	Approval Date: 08/04/2015	Expiration Date: 10/04/2015
E-mail Address: <b><i>jay.c.garcia@conocophillips.com</i></b>	Conditions of Approval: Discrete site samples required. Delineate and remediate per NMOCD guidelines. Geotagged photos of remediation required. Ensure SLO concurrence/approval	Attached <input type="checkbox"/>  ogrid 217817      IRP 3775
Date: 08/03/2015      Phone:575-704-2455		

\* Attach Additional Sheets If Necessary

pJXK1521626889

nJXK1521626690

# Appendix B

Laboratory Analysis

**Basin Environmental Service Technologies, LLC**  
P.O. Box 2948 Hobbs, NM 88241  
Phone 575.393.2967

July 06, 2016

KYLE NORMAN

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: EVGSAU SAT #5

Enclosed are the results of analyses for samples received by the laboratory on 07/05/16 11:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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](http://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,



Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	07/05/2016	Sampling Date:	06/30/2016
Reported:	07/06/2016	Sampling Type:	Soil
Project Name:	EVGSAU SAT #5	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: VERT 1 @ 2.5' (H601483-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>432</b>	16.0	07/06/2016	ND	432	108	400	3.77	
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	07/05/2016	ND	190	95.1	200	0.637	
DRO >C10-C28	<10.0	10.0	07/05/2016	ND	177	88.7	200	1.47	
<i>Surrogate: 1-Chlorooctane</i>	<i>66.8 %</i>	<i>35-147</i>							
<i>Surrogate: 1-Chlorooctadecane</i>	<i>69.0 %</i>	<i>28-171</i>							

**Sample ID: VERT 1 @ 3' (H601483-02)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>464</b>	16.0	07/06/2016	ND	432	108	400	3.77	
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	07/05/2016	ND	190	95.1	200	0.637	
DRO >C10-C28	<10.0	10.0	07/05/2016	ND	177	88.7	200	1.47	
<i>Surrogate: 1-Chlorooctane</i>	<i>78.5 %</i>	<i>35-147</i>							
<i>Surrogate: 1-Chlorooctadecane</i>	<i>81.6 %</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  
 KYLE NORMAN  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

 Received: 07/05/2016  
 Reported: 07/06/2016  
 Project Name: EVGSAU SAT #5  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 06/30/2016  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: VERT 1 @ 12' (H601483-03)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>352</b>	16.0	07/06/2016	ND	432	108	400	3.77	
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	07/05/2016	ND	190	95.1	200	0.637	
DRO >C10-C28	<10.0	10.0	07/05/2016	ND	177	88.7	200	1.47	
<i>Surrogate: 1-Chlorooctane</i>		<i>78.4 %</i>	<i>35-147</i>						
<i>Surrogate: 1-Chlorooctadecane</i>		<i>80.9 %</i>	<i>28-171</i>						

**Sample ID: VERT 2 @ 2.5' (H601483-04)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>464</b>	16.0	07/06/2016	ND	432	108	400	3.77	
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	07/05/2016	ND	190	95.1	200	0.637	
DRO >C10-C28	<10.0	10.0	07/05/2016	ND	177	88.7	200	1.47	
<i>Surrogate: 1-Chlorooctane</i>		<i>54.2 %</i>	<i>35-147</i>						
<i>Surrogate: 1-Chlorooctadecane</i>		<i>57.0 %</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  
 KYLE NORMAN  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

 Received: 07/05/2016  
 Reported: 07/06/2016  
 Project Name: EVGSAU SAT #5  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 06/30/2016  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: VERT 2 @ 3.5' (H601483-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>384</b>	16.0	07/06/2016	ND	432	108	400	3.77	
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	07/05/2016	ND	190	95.1	200	0.637	
DRO >C10-C28	<10.0	10.0	07/05/2016	ND	177	88.7	200	1.47	
<i>Surrogate: 1-Chlorooctane</i>		<i>70.4 %</i>	<i>35-147</i>						
<i>Surrogate: 1-Chlorooctadecane</i>		<i>73.5 %</i>	<i>28-171</i>						

**Sample ID: VERT 3 @ 3.5' (H601483-06)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>896</b>	16.0	07/06/2016	ND	432	108	400	3.77	
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	07/05/2016	ND	190	95.1	200	0.637	
DRO >C10-C28	<10.0	10.0	07/05/2016	ND	177	88.7	200	1.47	
<i>Surrogate: 1-Chlorooctane</i>		<i>71.3 %</i>	<i>35-147</i>						
<i>Surrogate: 1-Chlorooctadecane</i>		<i>67.3 %</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  
 KYLE NORMAN  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

 Received: 07/05/2016  
 Reported: 07/06/2016  
 Project Name: EVGSAU SAT #5  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 06/30/2016  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: VERT 3 @ 12' (H601483-07)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>416</b>	16.0	07/06/2016	ND	432	108	400	3.77	
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	07/05/2016	ND	190	95.1	200	0.637	
DRO >C10-C28	<10.0	10.0	07/05/2016	ND	177	88.7	200	1.47	
<i>Surrogate: 1-Chlorooctane</i>	<i>78.6 %</i>	<i>35-147</i>							
<i>Surrogate: 1-Chlorooctadecane</i>	<i>78.4 %</i>	<i>28-171</i>							

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

- 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

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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



# Appendix C

Photo Documentation

**Basin Environmental Service Technologies, LLC**  
P.O. Box 2948 Hobbs, NM 88241  
Phone 575.393.2967

# Conocophillips EVGSAU Satellite #005

Unit Letter F, Section 26, T17S, R35E



Initial Site Photo, Facing North West

8/4/15



Initial Site Photo, Facing South East

8/4/15



Installing Vertical, Facing East

6/28/16



Installing Vertical, Facing North West

6/29/16