



VANGUARD NATURAL RESOURCES

5847 San Felipe, Suite 3000
Houston, Texas 77057
(832) 327-2255

Onsurez #1
2RP-2397

Termination Request

API No. 30-015-23592

Release Date: June 13th, 2014

Unit Letter C, Section 11, Township 23S, Range 28E

December 16th, 2014

Mike Bratcher

New Mexico Energy, Minerals, & Natural Resources
Oil Conservation Division, Environmental Bureau – District 2
811 S. First St.
Artesia, NM 88210

**RE: Termination Request
Vanguard Onsurez #1 (2RP-2397)
UL/C sec. 11 T23S R28E
API No. 30-015-23592**

Mr. Bratcher:

Vanguard Natural Resources (Vanguard) has retained Rice Environmental Consulting and Safety (RECS) to address potential environmental concerns at the above-referenced site.

Background and Previous Work

The site is located approximately 3.4 miles northeast of Loving, New Mexico at UL/C sec. 11 T23S R28E. USGS records indicate that groundwater will likely be encountered at a depth of approximately 16 +/- feet.

On June 13th, 2014, Vanguard discovered a release of oil and produced water. A separator pop off released a mist of 10 barrels of oil and produced water over 8,871 square feet of battery pad and pasture land. A total of 5 barrels of fluid was recovered. Vanguard submitted an initial C-141 to NMOCD on July 25th, 2014, which was approved on July 28th, 2014 (Appendix A).

RECS personnel were on site beginning on June 19th, 2014. Two points within the pasture area were sampled at the surface and with depth (Figure 1). All samples were field tested for chlorides and organic vapors and then sent to a commercial laboratory for analysis (Appendix B). Point 1 was advanced to a depth of 1 ft bgs where the 1 ft bgs sample returned a chloride value of 768 mg/kg, a Gasoline Range Organics (GRO) reading of non-detect and a Diesel Range Organics (DRO) reading of 153 mg/kg. Point 2 was also advanced to a depth of 1 ft bgs where the 1 ft bgs sample returned chloride, GRO and DRO values of non-detect.

The overspray on the lease pad was not sampled; because, the staining was so unpronounced that by August 5th, 2014, the staining was no longer visible.

Based on the laboratory analysis data, a Corrective Action Plan (CAP) was written and submitted to NMOCD on August 20th, 2014. The CAP stated that the release in the pasture area would be scraped down 1 ft to 1.5 ft. Once the scrape was completed, a composite bottom sample from the scrape would be taken and field tested for chloride and organic vapors. If field testing

indicated that the bottom composite would not return laboratory chloride, GRO and DRO readings below regulatory standards, the scrape would be advanced to a depth where field sampling indicated that these constituents would return laboratory readings below regulatory standards. The final bottom composite of the scrape would be taken to a commercial laboratory to confirm that chloride, GRO and DRO readings returned values below regulatory standards.

All excavated soils would be evaluated for use as backfill, and any soils that did not meet regulatory standards would be sent to a NMOCD approved facility for disposal. Clean soil would be imported to the site to replace any soils taken for disposal. The clean soil would be blended with the remaining excavated soils to use as backfill. A sample of the blended soil would be taken to a commercial laboratory to confirm that chloride, GRO and DRO readings returned values below regulatory standards. The scrapes would be backfilled with the blended soil and contoured to the surrounding location. The disturbed pasture area would then be seeded with a blend of native vegetation.

NMOCD approved the CAP on August 27th, 2014, with two stipulations. The first stipulation asserted that all the excavated soils were to be disposed at a NMOCD approved facility, since blending of soils would not be permitted. The second stipulation asserted that confirmation samples needed to be provided for Point 1 and for the overspray area.

CAP activities began at the site on August 5th, 2014. Point 1 was augured to a depth of 1.5 ft bgs, and the 1.5 ft bgs sample was field tested for chlorides and organic vapors. The sample was then taken to a commercial laboratory for analysis, which returned a chloride value of 240 mg/kg and a GRO and DRO value of non-detect (Appendix C). A 5 point surface composite sample of the overspray area was taken and field tested for chlorides and organic vapors. The sample was then taken to a commercial laboratory for analysis, which returned a chloride value of 208 mg/kg, a GRO value of non-detect and a DRO value of 200 mg/kg. Based on these readings, no further actions were warranted for the overspray area.

The release area in the pasture was scraped down to 1.5 ft bgs. At the base of the scrape, a 5 point bottom composite sample was taken and field tested for chlorides and organic vapors. The composite was then taken to a commercial laboratory for analysis, which returned a chloride value of 160 mg/kg, a GRO reading of non-detect and a DRO reading of 130 mg/kg. Based on the laboratory data, NMOCD gave verbal approval to backfill the scrape on September 15th, 2014.

A total of 332 cubic yards of contaminated soil was taken to a NMOCD approved facility for disposal. A total of 492 cubic yards of top soil was imported to the site to serve as backfill. A sample of this imported top soil was field tested for chlorides and organic vapors. The sample was then taken to a commercial laboratory for analysis, which returned a chloride value of non-detect. The site was backfilled with the imported top soil and contoured to the surrounding location. On September 29th, 2014, soil amendments were added to the disturbed area, and the disturbed area was seeded with Lea County Mix.

Photo documentation of the field activities can be found in Appendix D.

Given that Vanguard has completed the actions as stipulated in the NMOCD approved CAP, Vanguard respectfully requests 'remediation termination' and site closure. A final C-141 can be found in Appendix E.

RECS appreciates the opportunity to work with you on this project. Please call Hack Conder at (575) 393-2967 or me if you have any questions or wish to discuss the site.

Sincerely,

A handwritten signature in cursive script, appearing to read 'Lara Weinheimer', with a long horizontal flourish extending to the right.

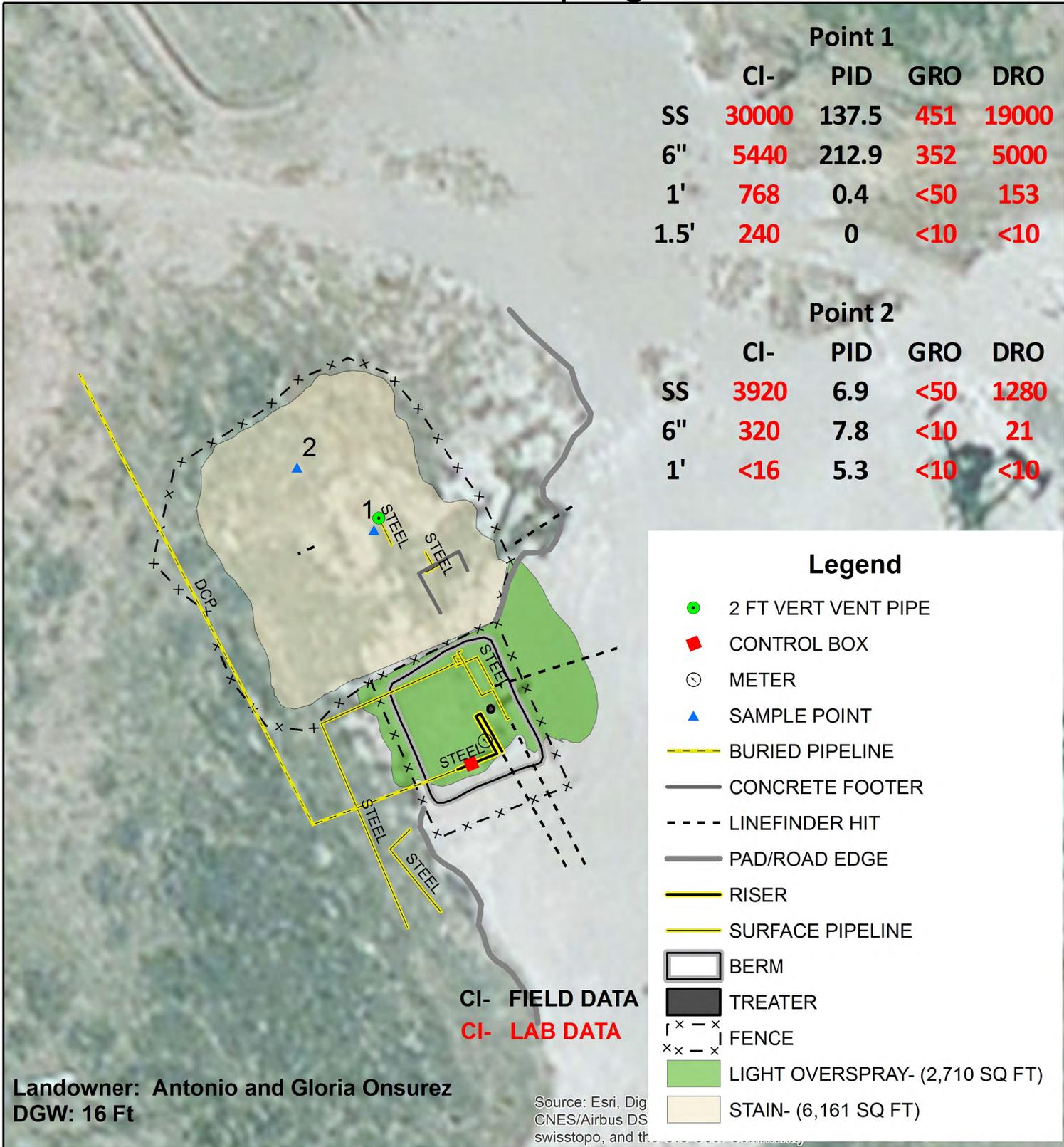
Lara Weinheimer
Project Scientist
RECS
(575) 441-0431

Attachments:

- Figure 1 – Initial Sampling Data
- Figure 2 – Excavation Map
- Appendix A – Initial C-141
- Appendix B – Initial Sampling Labs
- Appendix C – Remediation Labs
- Appendix D – Photo Documentation
- Appendix E – Final C-141

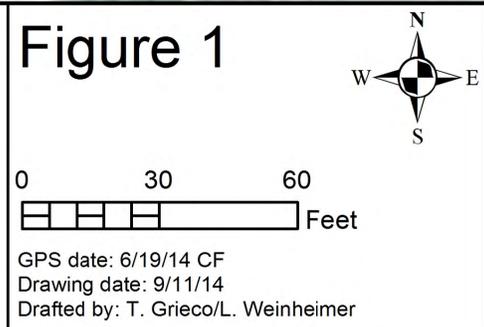
Figures

Initial Sampling Data



**VANGUARD
ONSUREZ #1**

UL C SECTION 11
T-23-S R-28-E
EDDY COUNTY, NM

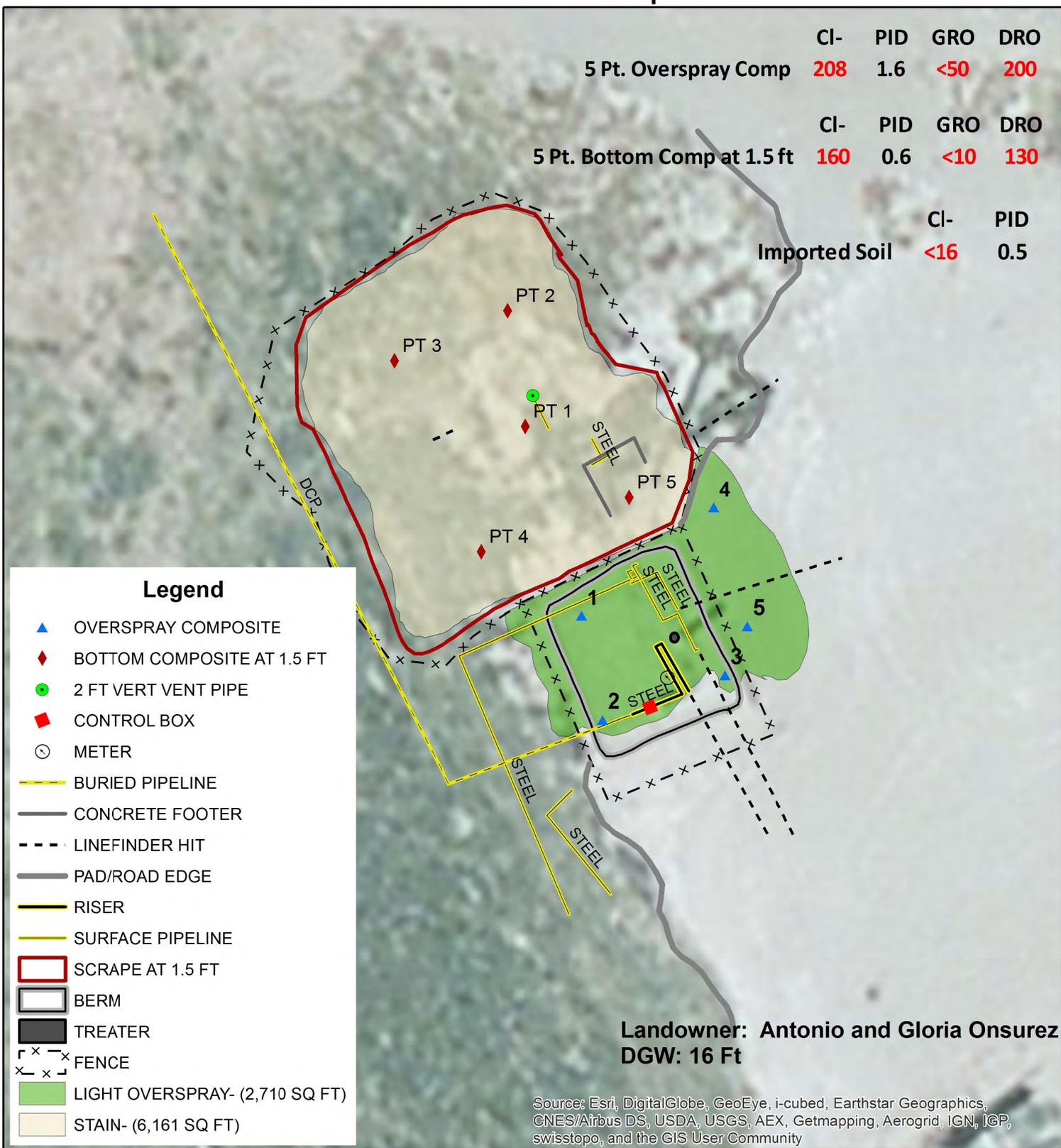


Excavation Map

CI-	PID	GRO	DRO
208	1.6	<50	200

CI-	PID	GRO	DRO
160	0.6	<10	130

CI-	PID
<16	0.5



**VANGUARD
 ONSUREZ #1**

UL C SECTION 11
 T-23-S R-28-E
 EDDY COUNTY, NM

Figure 2

0 25 50 Feet

GPS date: 9/11/14 AR
 Drawing date: 9/11/14
 Drafted by: T. Grieco, L. Weinheimer

Appendix A

Initial C-141

RICE Environmental Consulting and Safety (RECS)
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

NAB1420950822

OPERATOR

Initial Report Final Report

Name of Company Vanguard Permian	<i>258350</i>	Contact Mike Jones
Address 5847 San Felipe, Ste. 3000 Houtston, TX 77057		Telephone No. 575-390-4611
Facility Name Onsurez #1		Facility Type Battery

Surface Owner Antonio and Gloria Onsurez	Mineral Owner	API No. 30-015-23592
--	---------------	----------------------

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
C	11	23s	28 e	672	FNL	1773	FWL	EDDY

Latitude 32.325488 **Longitude** -104.060743

NATURE OF RELEASE

Type of Release Oil and Produced Water	Volume of Release 10 BBLS	Volume Recovered 5 BBLS
Source of Release Oil and Gas separator Pop off	Date and Hour of Occurrence	Date and Hour of Discovery 6-13-14/9AM
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.	

NM OIL CONSERVATION
ARTESIA DISTRICT
JUL 25 2014

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
Pop off on separator, releases and blow mist of oil and water in pasture. Pop off was replaced and piped to water tank.

RECEIVED

Describe Area Affected and Cleanup Action Taken.*
A total of 8,871 square feet of lease pad a pasture land was affected. The site will be assessed and a Corrective Action plan will be submitted to NMOCD.

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>Mike Jones</i>	OIL CONSERVATION DIVISION	
Printed Name: Mike Jones	Approved by Environmental Specialist: <i>[Signature]</i>	
Title: Production Foreman	Approval Date: <i>7/28/14</i>	Expiration Date: <i>NA</i>
E-mail Address: <i>mjones@vnrllc.com</i>	Conditions of Approval: Remediation per OCD Rule & Guidelines. SUBMIT REMEDIATION PROPOSAL NO LATER THAN:	Attached <input type="checkbox"/>
Date: _____ Phone: 575-390-4611	<i>8/28/14</i>	

RP2-2397

* Attach Additional Sheets If Necessary

Appendix B

Initial Sampling Labs

RICE Environmental Consulting and Safety (RECS)
P.O. Box 2948 Hobbs, NM 88241
Phone 575.393.2967



June 26, 2014

LAURA FLORES

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: ONSUREZ #001

Enclosed are the results of analyses for samples received by the laboratory on 06/24/14 10:22.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 RICE ENVIRONMENTAL CONSULTING & SAFETY
 LAURA FLORES
 419 W. CAIN
 HOBBS NM, 88240
 Fax To: (575) 397-1471

Received:	06/24/2014	Sampling Date:	06/19/2014
Reported:	06/26/2014	Sampling Type:	Soil
Project Name:	ONSUREZ #001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	VANGUARD		

Sample ID: POINT 1 @ SURFACE (H401886-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	30000	16.0	06/25/2014	ND	416	104	400	8.00		
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	451	100	06/24/2014	ND	164	82.0	200	2.21		
DRO >C10-C28	19000	100	06/24/2014	ND	184	92.0	200	3.27		

Surrogate: 1-Chlorooctane 180 % 65.2-140

Surrogate: 1-Chlorooctadecane 338 % 63.6-154

Sample ID: POINT 1 @ 6" (H401886-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5440	16.0	06/25/2014	ND	416	104	400	3.92		
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	352	100	06/24/2014	ND	164	82.0	200	2.21		
DRO >C10-C28	5000	100	06/24/2014	ND	184	92.0	200	3.27		

Surrogate: 1-Chlorooctane 144 % 65.2-140

Surrogate: 1-Chlorooctadecane 216 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 RICE ENVIRONMENTAL CONSULTING & SAFETY
 LAURA FLORES
 419 W. CAIN
 HOBBS NM, 88240
 Fax To: (575) 397-1471

Received:	06/24/2014	Sampling Date:	06/19/2014
Reported:	06/26/2014	Sampling Type:	Soil
Project Name:	ONSUREZ #001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	VANGUARD		

Sample ID: POINT 2 @ SURFACE (H401886-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3920	16.0	06/25/2014	ND	416	104	400	3.92	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	06/25/2014	ND	164	82.0	200	2.21	
DRO >C10-C28	1280	50.0	06/25/2014	ND	184	92.0	200	3.27	

Surrogate: 1-Chlorooctane 93.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 139 % 63.6-154

Sample ID: POINT 2 @ 6" (H401886-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	06/25/2014	ND	416	104	400	3.92	
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	06/25/2014	ND	164	82.0	200	2.21	
DRO >C10-C28	21.0	10.0	06/25/2014	ND	184	92.0	200	3.27	

Surrogate: 1-Chlorooctane 85.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 89.4 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 RICE ENVIRONMENTAL CONSULTING & SAFETY
 LAURA FLORES
 419 W. CAIN
 HOBBS NM, 88240
 Fax To: (575) 397-1471

Received:	06/24/2014	Sampling Date:	06/19/2014
Reported:	06/26/2014	Sampling Type:	Soil
Project Name:	ONSUREZ #001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	VANGUARD		

Sample ID: POINT 2 @ 1' (H401886-05)
Chloride, SM4500Cl-B mg/kg Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/25/2014	ND	416	104	400	3.92	

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	06/25/2014	ND	164	82.0	200	2.21	
DRO >C10-C28	<10.0	10.0	06/25/2014	ND	184	92.0	200	3.27	

Surrogate: 1-Chlorooctane 81.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 86.5 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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



August 12, 2014

LAURA FLORES

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: ONSUREZ #001

Enclosed are the results of analyses for samples received by the laboratory on 08/06/14 15:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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". The signature is written in a cursive style with a large, flowing "C" and "K".

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 RICE ENVIRONMENTAL CONSULTING & SAFETY
 LAURA FLORES
 419 W. CAIN
 HOBBS NM, 88240
 Fax To: (575) 397-1471

Received:	08/06/2014	Sampling Date:	08/04/2014
Reported:	08/12/2014	Sampling Type:	Soil
Project Name:	ONSUREZ #001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	VANGUARD		

Sample ID: PT. 1 @ 1' (H402428-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	768	16.0	08/07/2014	ND	400	100	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	08/08/2014	ND	171	85.5	200	8.57	
DRO >C10-C28	153	50.0	08/08/2014	ND	180	89.9	200	9.44	

Surrogate: 1-Chlorooctane 87.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 109 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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



Celey D. Keene, Lab Director/Quality Manager

Appendix C

Remediation Labs

RICE Environmental Consulting and Safety (RECS)
P.O. Box 2948 Hobbs, NM 88241
Phone 575.393.2967

September 10, 2014

KYLE NORMAN
RICE ENVIRONMENTAL CONSULTING & SAFETY LLC
419 W. CAIN
HOBBS, NM 88240

RE: ONSUREZ #001

Enclosed are the results of analyses for samples received by the laboratory on 09/09/14 8:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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,



Celey D. Keene
Lab Director/Quality Manager

Analytical Results For:

 RICE ENVIRONMENTAL CONSULTING & SAFETY
 KYLE NORMAN
 419 W. CAIN
 HOBBS NM, 88240
 Fax To: (575) 397-1471

Received:	09/09/2014	Sampling Date:	09/09/2014
Reported:	09/10/2014	Sampling Type:	Soil
Project Name:	ONSUREZ #001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	VANGUARD		

Sample ID: 5 PT COMP OVERSPRAY (H402791-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	09/09/2014	ND	416	104	400	0.00	
TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	09/09/2014	ND	168	84.0	200	4.11	
DRO >C10-C28	200	50.0	09/09/2014	ND	186	92.9	200	2.47	

Surrogate: 1-Chlorooctane 95.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 112 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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



Celey D. Keene, Lab Director/Quality Manager



* RUSH *

ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603
(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Vanguard		BILL TO		ANALYSIS REQUEST																							
Project Manager: Kyle Norman		P.O. #:		Chlorides	TPH 8015 M	BTEX	Texas TPH	Complete Cations/Anions	TDS																		
Address:		Company:																									
City: Hobbs State: NM Zip: 88240		Attn:																									
Phone #: Fax #:		Address:																									
Project #: Project Owner:		City:																									
Project Name:		State: Zip:																									
Project Location: On Suarez #1		Phone #:																									
Sampler Name: Abe Redecop		Fax #:																									
FOR LAB USE ONLY																											
Lab I.D.	Sample I.D.	(GRAB OR (C)OMP. # CONTAINERS	MATRIX							PRESERV.	SAMPLING																
H402791	1 Spt comploverspray	1	GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:		DATE	TIME																					
					9-9-14	6:00																					

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: al	Date: 9-9-14	Received By: Jodi Henson	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
Time: 8:30			Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
Time:			email: hconder@riceswd.com; lflores@rice-ecs.com; lweinheimer@rice-ecs.com; knorman@rice-ecs.com; jkamplain@rice-ecs.com; sedwards@rice-ecs.com; cursanic@rice-ecs.com Environmental Tech: aredecop@rice-ecs. @rice-ecs.com	
Delivered By: (Circle One)	Sample Condition	CHECKED BY:		
Sampler - UPS - Bus - Other:	Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	(Initials) JH		

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

#54

September 11, 2014

KYLE NORMAN
RICE ENVIRONMENTAL CONSULTING & SAFETY LLC
419 W. CAIN
HOBBS, NM 88240

RE: ONSUREZ #001

Enclosed are the results of analyses for samples received by the laboratory on 09/10/14 16:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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,



Celey D. Keene
Lab Director/Quality Manager

Analytical Results For:

 RICE ENVIRONMENTAL CONSULTING & SAFETY
 KYLE NORMAN
 419 W. CAIN
 HOBBS NM, 88240
 Fax To: (575) 397-1471

Received:	09/10/2014	Sampling Date:	09/10/2014
Reported:	09/11/2014	Sampling Type:	Soil
Project Name:	ONSUREZ #001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	VANGUARD		

Sample ID: PT. 1 @ 1.5' (H402806-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	09/11/2014	ND	400	100	400	0.00	
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	09/11/2014	ND	177	88.3	200	1.34	
DRO >C10-C28	<10.0	10.0	09/11/2014	ND	200	100	200	3.79	

Surrogate: 1-Chlorooctane 98.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 115 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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



Celey D. Keene, Lab Director/Quality Manager

September 11, 2014

KYLE NORMAN
RICE ENVIRONMENTAL CONSULTING & SAFETY LLC
419 W. CAIN
HOBBS, NM 88240

RE: ONSUREZ #001

Enclosed are the results of analyses for samples received by the laboratory on 09/10/14 16:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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,



Celey D. Keene
Lab Director/Quality Manager

Analytical Results For:

 RICE ENVIRONMENTAL CONSULTING & SAFETY
 KYLE NORMAN
 419 W. CAIN
 HOBBS NM, 88240
 Fax To: (575) 397-1471

Received:	09/10/2014	Sampling Date:	09/10/2014
Reported:	09/11/2014	Sampling Type:	Soil
Project Name:	ONSUREZ #001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	VANGUARD		

Sample ID: 5 PT COMP @ 1.5 SCRAPE (H402807-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	09/11/2014	ND	400	100	400	0.00	
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	09/11/2014	ND	177	88.3	200	1.34	
DRO >C10-C28	130	10.0	09/11/2014	ND	200	100	200	3.79	

Surrogate: 1-Chlorooctane 93.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 111 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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



Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603
 (505) 393-2226 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

** RUSH **

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: RECS		BILL TO		ANALYSIS REQUEST																			
Project Manager: <i>Norman</i>		P.O. #:		Chlorides TPH 8015 M BTEX Texas TPH Complete Cations/Anions TDS																			
Address:		Company:																					
City: Hobbs State: NM Zip: 88240		Attn:																					
Phone #: Fax #:		Address:																					
Project #: Project Owner:		City:																					
Project Name:		State: Zip:																					
Project Location: <i>Onsite #1</i>		Phone #:																					
Sampler Name: <i>1.5" Radcap</i>		Fax #:																					
FOR LAB USE ONLY																							
Lab I.D.	Sample I.D.	(GRAB OR (C)OMP. # CONTAINERS)	MATRIX											PRESERV.	SAMPLING								
<i>H4DZ807</i>	<i>1.5pt. comp at 1.5" scrape</i>	<i>C1</i>	GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:	ACID/BASE: ICE / COOL OTHER:	DATE TIME																		
					<i>9-10-14 12:10</i>																		

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: <i>[Signature]</i>	Date: <i>9/10/14</i> Time: <i>4:00</i>	Received By: <i>Jodi Hanson</i>	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #:
Relinquished By:	Date:	Received By:	Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Fax #:
Delivered By: (Circle One)	Sample Condition	CHECKED BY: <i>[Signature]</i>	REMARKS:
Sampler - UPS - Bus - Other:	<i>5.6°C</i> Cool Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No		email: hconder@riceswd.com; lflores@rice-ecs.com; lweinheimer@rice-ecs.com; knorman@rice-ecs.com; jkamplain@rice-ecs.com; sedwards@rice-ecs.com; cursanic@rice-ecs.com Environmental Tech: <i>aridrop@rice-ecs.com</i>

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

#54

September 11, 2014

KYLE NORMAN
RICE ENVIRONMENTAL CONSULTING & SAFETY LLC
419 W. CAIN
HOBBS, NM 88240

RE: ONSUREZ #001

Enclosed are the results of analyses for samples received by the laboratory on 09/10/14 16:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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,



Celey D. Keene
Lab Director/Quality Manager

Analytical Results For:

 RICE ENVIRONMENTAL CONSULTING & SAFETY
 KYLE NORMAN
 419 W. CAIN
 HOBBS NM, 88240
 Fax To: (575) 397-1471

Received:	09/10/2014	Sampling Date:	09/10/2014
Reported:	09/11/2014	Sampling Type:	Soil
Project Name:	ONSUREZ #001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	VANGUARD		

Sample ID: IMPORTED SOIL (H402808-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/11/2014	ND	400	100	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603
(505) 393-2222 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

** RUSH **

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <i>REGS</i>		Project Manager: <i>Norman</i>		BILL TO		ANALYSIS REQUEST																								
Address:		City: Hobbs		State: NM		Zip: 88240		Phone #:		Fax #:		Project #:		Project Owner:		Project Name:		Project Location: <i>Onscoriz #1</i>		Sampler Name: <i>Asu Redwood</i>		Chlorides TPH 8015 M BTEX Texas TPH Complete Cations/Anions TDS								
P.O. #:		Company:		Attn:		Address:		City:		State:		Zip:		Phone #:		Fax #:														
FOR LAB USE ONLY		Lab I.D.:		Sample I.D.:		# CONTAINERS:		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER:		ACID/BASE:			ICE / COOL		OTHER:		DATE		TIME	
H402808		1		Imported soil		C 1						✓													9-10-14		2:25			

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: <i>chr</i>	Date: <i>9/10/14</i>	Received By: <i>Jodi Hanson</i>	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
	Time: <i>4:00</i>		Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:		email: hconder@riceswd.com; lflores@rice-ecs.com; lweinheimer@rice-ecs.com; knorman@rice-ecs.com; jkamplain@rice-ecs.com; sedwards@rice-ecs.com; cursanic@rice-ecs.com	
Delivered By: (Circle One)	Sample Condition	CHECKED BY: (Initials)	Environmental Tech: <i>aredeep</i> @rice-ecs.com	
Sampler - UPS - Bus - Other:	Cool Intact			
	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
	<input type="checkbox"/> No <input type="checkbox"/> No			

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

#54

Appendix D

Photo Documentation

RICE Environmental Consulting and Safety (RECS)
P.O. Box 2948 Hobbs, NM 88241
Phone 575.393.2967

Vanguard Onsurez #001

Unit Letter C, Section 11, T23S, R28E



Source of release, facing south

6/19/14



Initial release area, facing southeast

6/19/14



Initial release area, facing northwest

6/19/14



Initial release area, facing southeast

6/19/14



Auguring for depth, facing southwest 8/5/14



Collecting sample of overspray area, facing northeast 9/4/14



Scraping release, facing southwest 9/5/14



Exporting soil, facing south 9/9/14



Scrape completed, facing northeast 9/9/14



Scrape completed, facing southeast 9/10/14



Scrape completed, facing southwest 9/10/14



Importing soil, facing west 9/11/14



Backfilling scrape, facing southwest 9/15/14



Scrape backfilled, facing southwest 9/23/14



Scrape backfilled, facing south 9/23/14



Disking site prior to seeding, facing southwest 9/29/14



Applying soil amendments, facing south 9/29/14



Disking amendments into soil, facing southeast 9/29/14



Seeding site, facing northeast 9/29/14



Site completed, facing southwest 9/29/14



Site completed, facing south

9/29/14



Site completed, facing east

9/29/14

Appendix E

Final C-141

RICE Environmental Consulting and Safety (RECS)
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 Vanguard Permian	Contact Mike Jones
Address 5847 San Felipe, Ste. 3000, Houston, TX 77057	Telephone No. 575-390-4611
Facility Name Onsurez #1	Facility Type Battery
Surface Owner Antonio and Gloria Onsurez	Mineral Owner
API No. 30-015-23592	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
C	11	23S	28E	672	FNL	1773	FWL	Eddy

Latitude 32.325488 Longitude -104.060743

NATURE OF RELEASE

Type of Release Oil and Produced Water	Volume of Release 10 BBLS	Volume Recovered 5 BBLS
Source of Release Oil and Gas separator Pop off	Date and Hour of Occurrence	Date and Hour of Discovery 6-13-14 9 am
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.* Pop off on separator, releases and blew a mist of oil and water in the pasture. Pop off was replaced and piped to water tank.

Describe Area Affected and Cleanup Action Taken.* A total of 8,871 square feet of battery pad and pasture land was affected. RECS personnel were on site beginning on June 19th, 2014. Two points within the pasture area were sampled at the surface and with depth. The overspray on the lease pad was not sampled; because, the staining was so unpronounced that by August 5th, 2014, the staining was no longer visible. Based on the laboratory analysis data, a CAP was written and submitted to NMOCD on August 20th, 2014. NMOCD approved the CAP on August 27th, 2014, with two stipulations. The first stipulation asserted that all the excavated soils were to be disposed at a NMOCD approved facility, since blending of soils would not be permitted. The second stipulation asserted that confirmation samples needed to be provided for Point 1 and for the overspray area. CAP activities began at the site on August 5th, 2014. Point 1 was augured to a depth of 1.5 ft bgs. The sample was taken to a commercial laboratory for analysis, which returned a chloride value of 240 mg/kg and a GRO and DRO value of non-detect. A 5 point surface composite sample of the overspray area was taken and sent to a commercial laboratory for analysis. The sample returned a chloride value of 208 mg/kg, a GRO value of non-detect and a DRO value of 200 mg/kg. Based on these readings, no further actions were warranted for the overspray area. The release area in the pasture was scraped down to 1.5 ft bgs. At the base of the scrape, a 5 point bottom composite sample was taken and sent to a commercial laboratory for analysis. The sample returned a chloride value of 160 mg/kg, a GRO reading of non-detect and a DRO reading of 130 mg/kg. Based on the laboratory data, NMOCD gave verbal approval to backfill the scrape on September 15th, 2014. A total of 332 cubic yards of contaminated soil was taken to a NMOCD approved facility for disposal. A total of 372 cubic yards of top soil was imported to the site to serve as backfill. A sample of this imported top soil was taken to a commercial laboratory for analysis and returned a chloride value of non-detect. The site was backfilled with the imported top soil and contoured to the surrounding location. On September 29th, 2014, soil amendments were added to the disturbed area, and the disturbed area was seeded with Lea County Mix.

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>Mike Jones</i>	OIL CONSERVATION DIVISION	
Printed Name: <i>M.KE JONES</i>	Approved by Environmental Specialist:	
Title: <i>Production Foreman</i>	Approval Date:	Expiration Date:
E-mail Address: <i>mjones@vnrllc.com</i>	Conditions of Approval:	Attached <input type="checkbox"/>
Date: <i>12-16-14</i> Phone: <i>575-390-4611</i>		

* Attach Additional Sheets If Necessary