# 1R-425-67

# WORKPLANS

Date:

4-8-13

# Hansen, Edward J., EMNRD

From:

L Peter Galusky < lpg@texerra.com> Thursday, August 08, 2013 2:00 PM

Sent: To:

Hansen, Edward J., EMNRD

Cc:

Katie Jones; Laura Pena

Subject:

Rice Operating Company Vacuum F-34 Vent Boot (1R425-67) Project Update

Attachments:

Vacuum F-34 Vent Boot Project Update 08.08.2013s lpg.pdf

Edward,

Please find attached a project update report for Rice Operating Company's Vacuum F-34 Vent Boot project. I will follow this with a hard copy in the mail.

Thank you.

Pete G.

--

L. Peter (Pete) Galusky, Jr. Ph.D., P.E.

Principal Environmental Engineer

**Texerra LLC** 

Cell: 719-339-6791 E-mail: <u>lpg@texerra.com</u> Web: <u>www.texerra.com</u>

# L. Peter Galusky, Jr. Ph.D., P.G.

#### Texerra LLC

20055 Laredo Ln, Colorado 80132 Tel: 719-339-6791 E-mail: lpg@texerra.com

April 8th, 2013

Mr. Edward Hansen New Mexico Energy, Minerals, & Natural Resources Oil Conservation Division, Environmental Bureau 1220 S. St. Francis Drive Santa Fe, New Mexico 87505

Re: Project Update

Rice Operating Company – Vacuum SWD System

Vacuum F-34 Vent Boot UL F, Section 34, Township 17S, Range 35E

NMOCD Case Number 1R425-67

Sent via E-mail and U.S. Mail Certified Return Receipt No. 7007 2560 0001 9729 0683

#### Mr. Hansen:

This letter is provided to update NMOCD with respect to the project history, present status and proposed work at Rice Operating Company's (ROC) Vacuum F-34 Vent Boot project in Lea County, New Mexico. It should be noted that there is no longer a threat of continued, compounded impact at this site as the former junction box has been eliminated and the Vacuum SWD system is no longer operating.

Background and Project History

The site is located approximately 2.5 miles east-southeast of Buckeye, New Mexico. The regional topography is gently sloping toward the southeast. Soils on the location are characterized in the Lea County Soil Survey as nearly level and gently sloping, shallow, gravelly loam soils underlain by indurated (hard) caliche. Groundwater is encountered at a depth of approximately 70 ft below ground surface (bgs) in unconsolidated Tertiary alluvium of the Ogallala Formation.

This junction box was removed during the Vacuum SWD System abandonment. Subsequent initial soil evaluation was completed in June of 2008 and NMOCD was notified of potential groundwater impact at the site on July 31, 2008. In March 2009, a Junction Box Disclosure Report was submitted to NMOCD with the 2008 junction box closure and disclosure reports.

Preliminary site characterization work indicated that soil chloride concentrations (determined by field titration) at 10 ft south of the source ranged from 1,533 ppm at the surface to 4,720 ppm at a depth of 12 ft below ground surface (bgs). PID (hydrocarbon vapor) readings at the source indicated elevated levels. This was confirmed by laboratory measured DRO concentrations of 1,610 ppm in the excavation sidewalls and 748 ppm in the excavation bottom. The excavated soil was blended on site, backfilled into the excavation and then contoured to the surrounding terrain. The site was subsequently reseeded to a native prairie mixture. An identification plate was placed on the surface to mark this location for future environmental considerations.

Texerra submitted an Investigation and Characterization Plan (ICP) to NMOCD on October 5<sup>th</sup>, 2009 and approved by NMOCD on January 28<sup>th</sup>, 2010. Soil samples taken at and near the former boot location

#### VAC F-34 Vent Boot

indicated elevated soil chloride levels at depth. Groundwater samples taken from a near-source down-gradient monitor well tested 940 ppm and 1,040 ppm Cl- on May 28<sup>th</sup> and July 27<sup>th</sup>, respectively, whereas dissolved hydrocarbons (as BTEX) were not detected in either sampling event. Texerra submitted a Notification of Groundwater Impact to NMOCD on October 26<sup>th</sup>, 2010. ROC subsequently installed and began sampling an up-gradient monitor well.

ROC then completed the installation of a double synthetic subsurface soil liner and surface restoration as the vadose zone protective remedy for the Vacuum F-34 Vent Boot, as summarized in the previously submitted (October 26<sup>th</sup>, 2010) Notification of Groundwater Impact, proposed liner dimensions submitted November 3<sup>rd</sup>, 2010, and Addendum submitted December 22, 2010. These were subsequently approved on February 7<sup>th</sup>, 2011. This work, which was completed in April and May of 2011, is summarized, below:

Soils were excavated to 4.5 ft bgs over an area of approximately 75 by 45 ft. Additional soil material was excavated to a depth of 16 ft bgs from two separate excavations, each encompassing an area of approximately 10 by 10 ft and surrounding the soil borings, which previously indicated more significant subsurface chloride contamination (SB-2 and SB-4). Six inches of clean blow sand was added as padding to the bottoms of these two, deeper excavations and a 20 mil reinforced liner was installed into each one. The liner was then padded with six inches of clean blow sand and blended backfill was backfilled into each 10 by 10 ft excavation to the base of the larger excavation (at 4.5 ft bgs). Six inches of clean blow sand was added as padding over the 75 by 45 ft area. A 20 mil reinforced liner was installed over the 75 by 45 ft excavation and six inches of clean blow sand was added as padding above it. Clean soil was then backfilled to near the surface and clean blow sand was added and contoured to the original ground surface. Silt fencing was installed around the restored area. The site was seeded with a blend of native vegetation.

NMOCD subsequently granted remediation termination status or 'soil closure,' on September 15<sup>th</sup>, 2011, with respect to the vadose zone indicating that groundwater monitoring must be continued and that a groundwater restoration remedy must subsequently be proposed if the data warranted this (see Appendix).

#### Proposed Path Forward

Groundwater monitoring data (see Appendix) indicate that up-gradient groundwater (sampled from MW-2) is low in chlorides (< 100 mg/l) but that the groundwater from the near-source, down-gradient well (MW-1) has had elevated chloride concentrations (generally above 900 mg/l) since sampling began in 2010. However, chloride concentrations in groundwater from this well trended lower since the vadose zone remedial work was completed in 2011, dropping from the max value of 1,260 mg/l in 2011 to the lowest concentration of 590 mg/l in November 2012. This data suggests that the downward migration of chlorides from the vadose zone into groundwater has been reduced and that natural dilution is occurring. The most recent chloride concentration observed in MW-1 was 1,020 mg/l. We propose to conduct limited groundwater withdrawals from the near-source, down-gradient well and periodic sampling of chlorides over the course of the rest of this calendar year to determine if this may be an effective means of reducing groundwater chloride mass. We thus respectfully request OCD approval to conduct these activities.

ROC is the service provider (agent) for the Vacuum SWD System and has no ownership of any portion of the pipeline, well, or facility. The System is owned by a consortium of oil producers, System Parties, who provide all operating capital on a percentage ownership/usage basis.

Please call either myself or Hack Conder of Rice Operating Company if you have any questions or wish to discuss this matter. Thank you for your consideration.

Texerra LLC 2

# **VAC F-34 Vent Boot**

Sincerely,

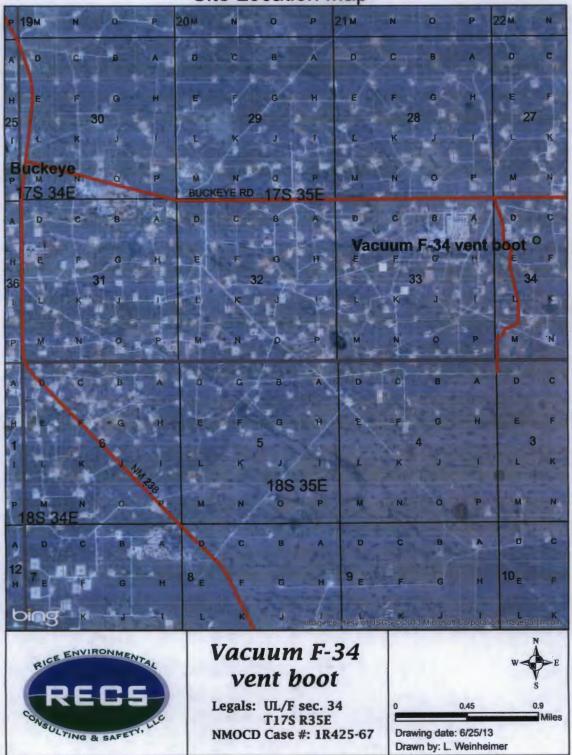
L. Peter Galusky, Jr. Ph.D., P.G.

# Attachments:

- Site location map
- Site map (showing soil bore soil bore and monitor well locations and areal footprints of installed subsurface liners)
- NMOCD approval of remediation termination for vadose zone
- Groundwater chloride concentrations
- Lab report (Cardinal Laboratories) of most recent (May 2013) groundwater samples.

Texerra LLC 3

Site Location Map



Site Map MW 2 ROCAbandoned 3 INAC **SB-7** MW 1 ROC Abandoned 6 INAC Legend MARKING PLATE MONITOR WELL SOIL BORES **VACUUM ABANDONED LINE** 10'X10'X16' DEEP REINFORCED POLY LINER 45'X75'X4.5' DEEP REINFORCED POLY LINER HEATER-TREATER DGW = 70 ft NON-ROC FACILITY Vacuum F-34 vent boot Legals: UL/F sec. 34 T17S R35E 30 CONSULTING & SAFET NMOCD Case #: 1R425-67 Drawing date: 7/1/13 Drafted by: L. Weinheim

From: Hansen, Edward J., EMNRD

To: Hack Conder

Cc: Leking, Geoffrey R, EMNRD; Katie Jones; Ipg@texerra.com

Subject: Soil Closure Approval (1R425-67) - ROC Vacuum F-34 Vent Boot Site

Date: Thursday, September 15, 2011 5:30:59 PM

RE: "Project Update"

for the Rice Operating Company's Vacuum F-34 Vent Boot Site (1R425-67) Unit Letter F, Section 34, T17S, R35E, NMPM, Lea County, New Mexico Soil Closure Approval

Dear Mr. Conder:

The New Mexico Oil Conservation Division (OCD) has received the Rice Operating Company's (ROC) report of the soil closure of the above-referenced site (dated July 7, 2011). The above-referenced report, submitted in fulfillment of 19.15.29 NMAC (Part 29, formally, Rule 116), indicates that Rice Operating Company (ROC) has partially met the requirements of 19.15.29 NMAC for this site. Therefore, the OCD hereby conditionally approves the soil closure for the Vacuum F-34 Vent Boot Site and no further soil remediation is required for this site.

The Vacuum F-34 Vent Boot Site is still active under Remediation Plan, 1R425-67, and groundwater monitoring, groundwater contamination delineation (if necessary), and groundwater remediation (if necessary) must continue at the Vacuum F-34 Vent Boot Site.

Please be advised that OCD partial approval of this request does not relieve the owner/operator of responsibility should operations pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the owner/operator of responsibility for compliance with any OCD, federal, state, or local laws and/or regulations.

Thank you for your cooperation in this matter. If you have any questions regarding this matter, please contact at 505-476-3489.

Edward J. Hansen Hydrologist Environmental Bureau

						Vacuu	m F-34	vent boot					
MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	CI	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate	Comments
1	69.91	118.36	31.5	100	5/28/10	940	2030	<0.001	<0.001	<0.001	<0.003	91	Clear No odor
1	69.74	118.36	31.6	100	7/27/10	1040	2130	<0.001	<0.001	<0.001	<0.003	99.1	Clear No odor
1	69.75	118.36	31.6	100	10/27/10	970	2300	<0.001	<0.001	<0.001	<0.003	94.9	Clear No odor
1	69.87	118.36	31.5	100	2/18/11	1030	2010	<0.001	<0.001	<0.001	<0.003	85.6	Clear No odor
1	70.06	118.36	31.4	100	6/3/11	1150	2160	<0.001	<0.001	<0.001	<0.003	89.7	Clear No odor
1	70.08	118.36	31.4	100	9/1/11	1160	2380	<0.001	<0.001	<0.001	<0.003	87.3	Clear No odor
1	70.09	118.36	31.4	100	12/3/11	1260	2470	<0.001	<0.001	<0.001	<0.003	86.6	Clear No odor
1	70.22	118.36	31.3	100	2/23/12	1060	2360	<0.001	<0.001	<0.001	<0.003	98.4	Clear No odor
1	70.26	118.36	31.3	100	5/31/12	930	2130	<0.001	<0.001	<0.001	<0.003	81.2	Clear no odor
1	70.02	118.36	31.4	100	8/24/12	980	2060	<0.001	<0.001	<0.001	<0.003	80.8	Clear no odor
1	70.06	118.36	31.4	100	11/19/12	590	1320	<0.001	<0.001	<0.001	<0.003	77.7	Clear no odor
1	70.24	118.36	31.3	100	2/13/13	960	1990	<0.001	<0.001	<0.001	<0.003	76	Clear no odor
1	70.56	118.36	31.1	100	5/29/13	1020	2320	<0.001	<0.001	<0.001	<0.003	71	Clear no odor

						Vacuu	m F-34	vent boot							
MW	Depth to	Total	Well	Volume	Sample Date	Cl	TDS	Benzene	Toluene	Ethyl	Total	Sulfate	Comments		
10100	Water	Depth	Volume	Purged	Sample Date	J	103	benzene	Tolucile	Benzene	Xylenes	Junate	Comments		
2	70.48	84.22	2.2	10	11/22/10	68	340	<0.001	<0.001	<0.001	<0.003	71.7	Clear No odor		
2	70.57	84.32	2.2	10	2/18/11	60	403	<0.001	<0.001	<0.001	<0.003	50.5	Clear No odor		
2	70.72	84.32	2.2	10	6/3/11	56	384	<0.001	<0.001	<0.001	<0.003	56.9	Clear No odor		
2	70.73	84.32	2.2	10	9/1/11	56	407	<0.001	<0.001	<0.001	<0.003	58.6	Clear No odor		
2	70.75	84.32	2.2	10	12/3/11	44	350	<0.001	<0.001	<0.001	<0.003	54.1	Clear No odor		
2	70.89	84.32	2.1	10	2/23/12	116	448	<0.001	<0.001	<0.001	<0.003	61.8	Clear No odor		
2	70.94	84.32	2.1	10	5/31/12	40	422	<0.001	<0.001	<0.001	<0.003	64	Clear No odor		
2	71.12	84.32	2.1	10	8/24/12	60	399	<0.001	<0.001	<0.001	<0.003	50.8	Clear No odor		
2	71.18	84.32	2.1	10	11/19/12	52	398	<0.001	<0.001	<0.001	<0.003	47.6	Clear No odor		
2	71.37	84.32	2.1	10	2/13/13	60	380	<0.001	<0.001	<0.001	<0.003	54.5	Clear No odor		
2	71.71	84.32	2	10	5/29/13	32	595	<0.001	<0.001	<0.001	<0.003	43	Clear No odor		



June 11, 2013

Hack Conder

Rice Operating Company

112 W. Taylor

Hobbs, NM 88240

RE: VACUUM F-34 VENT

Enclosed are the results of analyses for samples received by the laboratory on 06/03/13 16:41.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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 <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated 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.

Celey & Keine

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 Operating Company Hack Conder 112 W. Taylor Hobbs NM, 88240

Fax To: (575) 397-1471

Received:

06/03/2013

Sampling Date:

05/29/2013

Reported:

06/11/2013

Sampling Type:

Water

Project Name:

VACUUM F-34 VENT

Sampling Condition:

Cool & Intact

Project Number:

**NOT GIVEN** 

Sample Received By:

Jodi Henson

Project Location:

T17S-R35E-SEC34 F - LEA CTY, NM

#### Sample ID: MONITOR WELL #1 (H301297-01)

BTEX 8021B	mg/	L .	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.001	0.001	06/05/2013	ND	0.053	106	0.0500	0.654	
Toluene*	< 0.001	0.001	06/05/2013	ND	0.048	95.3	0.0500	0.828	
Ethylbenzene*	< 0.001	0.001	06/05/2013	ND	0.050	101	0.0500	0.903	
Total Xylenes*	<0.003	0.003	06/05/2013	ND	0.146	97.4	0.150	1.14	
Total BTEX	<0.006	0.006	06/05/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL)	90.6	% 89.5-12	6						
Chloride, SM4500CI-B	mg/	L	Analyze	d By: DW				.,	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	1020	4.00	06/07/2013	ND	104	104	100	0.00	
Sulfate 375.4	mg/	L	Anatyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	<b>71.0</b> 25.0		06/06/2013	ND	18.3	91.7	20.0	3.61	
TDS 160.1	mg/	L	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	2320	5.00	06/06/2013	ND	245	102	240	1.53	

Cardinal Laboratories

\*=Accredited Analyte

or bort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and completion of the applicable service. In no event shall Cardinal be Bable for incidental or consequential diamages, ors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such in this with twelvice and considerations. PLEASE NOTE: Liability and Damages. Cardinal's hability and client's exclusive remedy for any client arising, whether based in contract or any other cause whatsoever shall be deemed waked unless made in writing and received by Cardinal walkin thirty (30) days after con rackdony, wellout limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report taken to reproduced except in

Celey & Keene

Celey D. Keene, Lab Director/Quality Manager



#### Analytical Results For:

Rice Operating Company Hack Conder 112 W. Taylor Hobbs NM, 88240 Fax To: (575) 397-1471

Received: Reported: 06/03/2013

06/11/2013

Project Name:

06/11/2013

VACUUM F-34 VENT

Project Number: Project Location: NOT GIVEN

T17S-R35E-SEC34 F - LEA CTY, NM

Sampling Date:

05/29/2013

Sampling Type:

Water

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: MONITOR WELL #2 (H301297-02)

BTEX 8021B	mg/	<u> </u>	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.001	0.001	06/05/2013	ND	0.053	106	0.0500	0.654	
Toluene*	< 0.001	0.001	06/05/2013	ND	0.048	95.3	0.0500	0.828	
Ethylbenzene*	< 0.001	0.001	06/05/2013	ND	0.050	101	0.0500	0.903	
Total Xylenes*	<0.003	0.003	06/05/2013	ND	0.146	97.4	0.150	1.14	
Total BTEX	<0.006	0.006	06/05/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL)	89.2 9	% 89.5-12	6		4. %				
Chloride, SM4500CI-B	mg/	L	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	32.0	4.00	06/07/2013	ND	108	108	100	0.00	
Sulfate 375.4	mg/	L	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	43.0	10.0	06/06/2013	ND	18.3	91.7	20.0	3.61	
TDS 160.1	mg/	L	Analyze	d By: AP					
Analyte	Result Reporting		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	595	5.00	06/06/2013	ND	245	102	240	1.53	

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Danages. Continuits behildly and clients, including those for negligence and any other cause whatsoever shall be ferrited unless made in writing and received by Cardinal within thirty. (20) days after completion of the applicable service. In no event shall Cardinal be Bable for incidential or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by Cardinal, regardless of whether such cains is based upon any of the above stated reasons or otherwise. Results relation only to the supervise stated reasons or otherwise. Results relation only to the supervise stated reasons or otherwise. Results relation only to the supervise stated reasons or otherwise. Results relation only to the supervise stated reasons or otherwise. Results relation only to the supervise stated reasons or otherwise. Results relation only to the supervise stated reasons or otherwise. Results relation only to the supervise of Cardinal Automations.

Celey & Keine

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 SM4500CI-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. Curdina's liability and charis's exclusive remony for any claim anising, whether based in contract or toxt, shall be limited to the amount paid by client for analyses. All claims, including those for negigence are any other cause whatsoever shall be deemed washed unless made in writing and received by Cardinal within theirty (XII) days after conjection of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, welford 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 say client, has been been applicable service. In order to the performance of the services hereunder by Cardinal, regardless of whether say client, and the services arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether say client and services arising out of or related to the performance of the services hereunder by Cardinal and the services arising out of or related to the performance of the services hereunder by Cardinal and the services arising out of or related to the performance of the services hereunder by Cardinal and the services arising out of or related to the performance of the services hereunder by Cardinal and the services arising out of or related to the performance of the services hereunder by Cardinal and the services arising out of or related to the performance of the services have been applicable service.

Celegi Keena

Celey D. Keene, Lab Director/Quality Manager

																_						21.1								age		<u></u>	OI		۲.
101 East Merfend - Hobbs, New Mexico 88240 Tel (576) 393-2328 Fax Cardinal Laboratories, Inc.												CHAIN-OF-CUSTODY AND ANALYSIS REQUEST  LAB Order ID #														5 of 5									
Company Name: RICE Opera	ting Company		BILL T	Op		ting	Cor	mpe	ny	704		PO#	<b>7</b> (2)			ANALYSIS REQUEST (Circle or Specify Method No.)														Page					
Project Manager: Hack Conde	Address: (Street, City, Zip)  122 W Taylor Street ~ Hobbs, New Mexico 88240														١	1	I	Ì			ĺ	ĺ			١			-	1	1	1	╵┖┱			
	treet, City, Zip)		Phone#: Fax#:												ı			١.									l				1				
	et ~ Hobbs, New Mexico 88240		(575) 393-9174 (575)397-1471																3																
Phone #:		Fax#:															ত্র		3												-				
(575) 393-91 Project #:	Project Name:	(5/5	397-	147	<del>1</del>	_	<del>)                                    </del>	$\checkmark$	_							l		ਫ਼	- [3	8															
riojeci #.	Vacuum F-34 Vent		(//1)														夏	:	뭐										- 1						
Project Location:	Vacadii i - 5-7 Voite		Sampler Signature: Bozanne Johnson (575)631-9310														죍	- 19	3 0				1											_	
T17S-R35E-	Sec34 F ~ Lea County New Mo	exico		14	4	4/				roz	anı	ne@	Qva	lorn	et.cor	ı		8		3 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	3					825	1				18	3			ş
			1	Z	(gg	40	K								PLING			/TX10		3 2	3				624	270CA		80			Σ,	cos, Hcos	\$		~24 H
LAB USE ONLY	FIELD CODE	(G)rab or (C)omp	# CONTAINERS	WATER	SOIL	<u>~</u>	LUDGE	HCL (2 40ml VOA)	HNO3	NaHSO <sub>4</sub>	H <sub>2</sub> SO₄	ICE (1-1Liler HDPE)	NONE	DATE (2013)	TIME	MTBE 8021B/602	BTEX 80218/602	TPH 418.1/TX1005 / TX1005 Extended (C35)	PAH 8270C	وام	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	7	GCAMS Vol. 8280B/624	GCMS Semi. Vol. 8270C/625	PCB's 8082/608	Pesticides 8081A/608	BOD, TSS, pH	Moisture Content	A, Mg,	Anions (Cl. SO4, C	Total Dissolved Solids	Chlorides	Turn Around Time ~ 24 Hours
H301297		1	1	×	Ö	₹	ισ	1 2	+	Z	Ξ	1			_	_	X B	튀	4	#	#	۲	۲	RCI	Ð	ð	¥.	ď	ĬĔ.	2	씍:	-	-	<del> </del>	F
	Monitor Well #1	<u> </u>	3	î		+	+	1 2	+	Н	$\vdash$	1	_	5-29 5-29	13:10		x		+	┿	十		Н	Н	Н	Н	Н	-	-	$\vdash$	+	-	X X	_	-
	Monitor Well #2	G	3	1		$\vdash$	+	+	+	Н	Н	귀	+	0-28	14:15	┪	-	-	+	┰	+	┝	-	-	Н	-	-	┝	$\vdash$	┌┤	+	+	₩	×	$\vdash$
		┼		$\vdash$		-	+	╫	╁	Н	-	-+	-		-	╀─	$\vdash$		+	╁	┿	╀	-		-	-	-	-	-	┝╾┥	$\dashv$	+	+	┼-	$\vdash$
		┼	<del> </del>	$\vdash$	-	$\dashv$	+	┿	$\vdash$	Н	$\vdash$	-+	╅			┢	-	$\dashv$	$\dashv$	+	┿	$\vdash$		_	-	-	-	-	H	$\vdash$	+	+	+	├	-
		┼	┼	Н		-	+	┿	╁	$\vdash$		$\dashv$	-		-	$\vdash$	Н		+	┿	┿	H		Н	Н	-		├-	-	┌─┤	+	╅	+	├-	$\vdash$
		1-	-	╁		-	+	╁	╫	Н	H	+	┪	<del></del>			$\vdash$	$\dashv$	+	+	+	╀	-	Н	-	$\vdash$	Н	-	-	H	$\dashv$	+	+	┼-	-
		╂	+	$\vdash$	-	+	╅	十	╁╌	-	$\dashv$	$\dashv$	-+		-	-	$\vdash$	$\dashv$	+	+	+		Н	Н	Н	-	Н	-	╁╌	$\vdash$	-+	+	+	-	$\vdash$
		┼─	+	$\vdash$	-	+	十	十	╁	Н	$\dashv$	+	-†		├──	-	$\vdash$	$\vdash$	+	+	+	╁	-	Н	$\vdash$	Н		┝	$\vdash$	$\vdash$	$\dashv$	+	┿	+-	$\vdash$
I		┼	┼	Н		$\vdash$	╅	十	╁	Н	Н	$\dashv$	┪			$\vdash$	Н	-	+	╅	+	┢	Н	Н	-	-		┝	$\vdash$	$\vdash$	+	+	┿	┼	$\vdash$
Dalla di la di la di	Date: Time:	Pecei	ved by						<del>_</del>	البا		Tim				Pho	ne i	202	ite	╈	₩	<u></u>	-	Νo										_	
Relinquisted by Date: Time: Received by: Date: Time:										_	Phone Results Yes No Fax Results Yes No Additional Fax Number:									$\neg$															
Relinguished by: Date: Time: Re			Received By: (Leporatory Staff) Date: Time:										REMARKS:  Email Results to: hconder@riceswd.com																						
Delivered By: (Circle One)			mple Condition  Yes Cool No No No (Initials)										lweinheimer@rice-ecs.com kjones@riceswd.com rozanne@valornet.com																						
				-						7	_					_																			

#54