1R - 45

APPROVALS

YEAR(S):

20/2

Hansen, Edward J., EMNRD

From:

Hansen, Edward J., EMNRD

Sent:

Monday, August 13, 2012 1:59 PM Hack Conder (hconder@riceswd.com)

To: Cc:

Leking, Geoffrey R, EMNRD; Laura Pena (Ipena@riceswd.com); Scott Curtis

(scurtis@riceswd.com)

Subject:

Remediation Plan (1R425-75) Termination - ROC Vacuum Jct C-7 Site

RE: Termination Request

for the Rice Operating Company's

Vacuum Jct C-7 Site

Unit Letter C, Section 7, T18S, R35E, NMPM, Lea County, New Mexico

Remediation Plan (1R425-75) Termination

Dear Mr. Conder:

The New Mexico Oil Conservation Division (OCD) has received Rice Operating Company's report and request to close the above-referenced site, dated June 8, 2012 (received June 12, 2012) and the photo documentation of August 13, 2012. The report is acceptable to the OCD.

The above-referenced report, submitted in accordance with 19.15.29 NMAC (Rule 29; formally, Rule 116), indicates that Rice Operating Company has met the requirements of 19.15.29 NMAC; therefore, the OCD approves the report and hereby notifies you that the remediation plan (1R425-75) is terminated in accordance with 19.15.29 NMAC.

Please be advised that OCD approval of this report 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.

If you have any questions regarding this matter, please contact me at 505-476-3489.

Edward J. Hansen Hydrologist Environmental Bureau

2012 JUN 12 P 12: 43

RICE Operating Company

122 West Taylor • Hobbs, New Mexico 88240 Phone: (575) 393-9174 • Fax: (575) 397-1471

CERTIFIED MAIL RETURN RECEIPT NO. 7007 2560 0000 4569 8593

June 8, 2012

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: Termination Request

Vacuum Jct. C-7 (1R425-75): UL/C, Sec. 7, T18S, R35E RICE Operating Company – Vacuum SWD System

Mr. Hansen:

Rice Operating Company (ROC) is the service provider (agent) for the abandoned Vacuum Saltwater Disposal (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.

Background

In 2006, ROC initiated work on the former C-7 junction box as part of the system abandonment. The site is located in UL/C, Sec. 7, T18S, R35E. NM OSE records indicate that groundwater would likely be encountered at a depth of approximately 100 +/- feet. The site was delineated using a backhoe to collect soil samples at regular intervals, creating a 20x20x12-ft deep excavation. Each sample was field titrated for chlorides and field screened using a PID for hydrocarbon. Representative composite samples of the 4-WALL, excavation bottom, and blended backfill were sent to the laboratory for analysis of chloride, TPH, and BTEX, resulting in a 4-WALL chloride concentration of 64 mg/kg, a gasoline range organics (GRO) concentration of 28.5 mg/kg, and a diesel range organics (DRO) concentration of 974 mg/kg. The excavation bottom laboratory analysis resulted in chloride concentrations of <16 mg/kg, a GRO concentration of 138 mg/kg, a DRO concentration of 1,370 mg/kg, a benzene and toluene concentration below detectable limits, an ethyl benzene concentration of 0.134 mg/kg, and a total xylenes

concentration of 0.097 mg/kg. The blended backfill laboratory analysis resulted in a chloride concentration of 64 mg/kg, a GRO concentration of 13.2 mg/kg, and DRO concentration of 960 mg/kg. The excavated soil was blended on site with clean imported soil. The blended backfill was returned to the excavation to ground surface and contoured to the surrounding area. On 3/20/2006, the site was seeded with a blend of native vegetation and is expected to return to a productive capacity at a normal rate.

To further investigate the depth of TPH presence, a soil boring was initiated on 2/9/2009 at the former junction box site. The boring was advanced to a total depth of 30 ft BGS with soil samples collected every 5 ft and field tested for chlorides and organic vapors. The 30 ft sample was sent to a laboratory for analysis of chloride and TPH, resulting in a chloride concentration of 16 mg/kg, and GRO and DRO concentrations below detectable limits. The entire bore hole was plugged with bentonite to ground surface. The junction box final report, photo documentation, laboratory analysis, PID sheet, and boring log are attached.

Recommendations

Site investigation demonstrates that residual chloride and hydrocarbons in the vadose zone will not with reasonable probability contaminate groundwater in excess of NMOCD standards. This site meets the requirements of the NMOCD-approved Revised Junction Box Upgrade Work Plan (July 16, 2003). As such, ROC request termination of the regulatory file, or similar closure status.

Please contact me at (575)393-9174 if you have any questions or wish to discuss this site. Thank you for your time and consideration.

Sincerely,

RICE Operating Company

Hack Conder

Environmental Manager

enclosures

RICE OPERATING COMPANY JUNCTION BOX FINAL REPORT

BOX LOCATION

	SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP		COUNTY	BOX D	MENSIONS -	FEET				
-	Vacuum	Jct. C-7	С	7	1,85	35E	Lea	Length	Width	Depth				
				<u> </u>		<u> </u>			eliminated					
	LAND TYPE: E	BLM	STATE X	. FEE LAI	NDOWNER			OTHER						
	Depth to Groun	ndwater	100	feet	NMOC	D SITE ASS	SESSMENT	RANKING S	CORE:	10				
	Date Started	3/1/	2006	Date Co	mpleted	2/9/2009	OCD	Witness	no					
	Soil Excavated	177.8	cubic ya	Width	20	Depth	12 feet							
	Soil Disposed	120	cubic ya	rds Off	site Facility	Sun	dance	Location	Eunic	ce, NM				
Proc	AL ANALYTI	nposite sam	ple of botto	om and 4-poi	int composi	te sample c		TPH, BTEX	and Chloric	de				
labo	ratory test resu	ilts complete	ed by using	an approved	d lab and te	sting proced	dures pursu	ant to NMOC	D guideline	S.				
	Sample Location	Benze mg/k			1 1		RO g/kg	DRO mg/kg	Chloride mg/kg					
4-	WALL COMP.) = 0.0 (field			8.5	974	64					
В	OTTOM COMP.	<0.0	0.0	05 0.13	4 0.09	7 1	38	1370	<16					
BA	CKFILL COMP		PIC) = 0.0 (field)	1	3.2	960	64					
SOI	L BORE #1 @ 3	30'	PIC) = 1.9 (field)		:10	<10	16					
of the	ral Description Vacuum SWD Sy	stem abando	onment. Afte	r the former j	unction box v	vas removed			RIDE FIELD	TESTS				
an inve	estigation was cor	nducted using	g a backhoe i	to excavate th	e site to dime	ensions of		OCATION	DEPTH	i mg/kg				
	d2-ft deep. Repi							-wall comp.	n/a	329				
comm	ercial laboratory for	or analysis of	chloride, TP	H, and BTEX	. The labora	ory confirme	d b	ottom comp.	12'	421				
low co	ncentrations of ch	nloride but sli	ghtly elevated	d concentratio	ns of TPH.	The excavate	d so	OIL BORING	15'	148				
	s blended on site	<u></u>	· · · · · · · · · · · · · · · · · · ·		<u>,`</u>		——— I "	t the former	20'	122				
	excavation to grou		<u> </u>				06,	junction (2/9/2009)	25'	87				
the site	was seeded with	h a blend of r	native vegeta	tion and is exp	pected to retu	ırn to a		(2/3/2003)	30,	117				
produc	tive capacity at a	normal rate.	To further in	nvestigate der	oth of TPH pr	esence, a so	il							
boring	was initiated on 2	2/9/2009 at th	ne former jun	ction box loca	tion. The bo	ring was adv	anced to a de	epth of 30 ft Bo	3S while soil	samples				
	ollected every 5 f													
chlorid	e and TPH which	confirmed k	<u> </u>											
	· ·		enclosure	es: photos, lat	results, PID	(field) scree	nings, boring	log, BTEX co	mparison stu	dy, chloride curve				
•	Í HEREI	BY CERTIF	Y THAT TH		TION ABO			IPLETE TO 1	HE BEST (OF MY				
SITE S	UPERVISOR	Řoy Rasc	on SI	GNATURE	<u>. </u>	not available		COMPAN	RICE OPER	RATING COMPANY				
	REPORT SEMBLED BY	Katie Jor	ies	IŅITIAL	K)									
		Larry Bruce B		GNATURE	Larry	Buce	Baker	A, DATE	11-1	13-09				

Vacuum Jct. C-7

Unit C, Section 7, T18S, R35E



former junction box site

4/18/2002



seeding backfilled site





excavating the former junction box site

10/4/2006



soil boring the former junction box site

2/9/2009





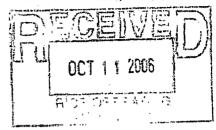
PHONE (505) 393-2325 - 101 E. MARLAND + HOBBS, NM 88240

ANALYTICAL RESULTS FOR RICE OPERATING CO. ATTN: ROY R. RASCON 122 W. TAYLOR HOBBS, NM 88240

FAX TO: (505) 397-1471

Receiving Date: 10/05/06
Reporting Date: 10/09/06
Project Number: NOT GIVEN
Project Name: VACUUM JCT, C-

Project Name: VACUUM JCT. C-7 Project Location: NOT GIVEN



Sampling Date: 10/03/06 & 10/04/06

Sample Type: SOIL

Sample Condition; COOL & INTACT

Sample Received By: BC Analyzed By: BC/HM

		GRO	DRO	
•		(C ₆ -C ₁₀)	(>C ₁₀ -C ₂₈)	CI*
LAB NUMBER	SAMPLE ID	(mg/Kg)	(mg/Kg)	(mg/Kg)

ANALYSIS D	ATE	10/08/06	10/08/06	10/09/06
H11619-2	BTTM FIELD COMP. @ 12'	138	1370	<16
H11619-3	BACKFILL COMP.	13.2	960	64
H11619-4	4 WALL COMP. 20'x20'	28.5	974	64
Quality Contr	ól	769	784	490
True Value C	(C.	800	800	500
% Recovery		96.1	98.0	98.0
Relative Per	cent Difference	2,4	1.2	2.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI': Std. Methods 4500-CI'B *Analyses performed on 1:4 w:v aqueous extracts.

(Duck) HY (Lay N

Date

H11619A

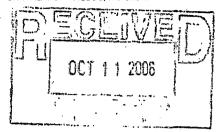
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by clique for any light cause whatsover shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the napplicative 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.





PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR RICE OPERATING CO. ATTN: ROY R. RASCON 122 W. TAYLOR HOBBS, NM 88240 FAX TO: (505) 397-1471



Receiving Date: 10/05/06

Reporting Date: /10/09/06

Project Number: NOT GIVEN
Project Name: VACUUM JCT. C-7

Project Location: NOT GIVEN

Sampling Date: 10/03/06

Şample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: BC

Analyzed By: BC

LAB NO. SAMPLE ID	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DATE	10/06/06	10/06/06	10/06/06	10/06/06
H11619-1 COMPOSITE, BTTM #1-#5	<0.005	<0.005	0.500	0.360
H11619-2 BTTM FIELD COMP. @ 12'	<0.005	<0.005	0.134	0.097
Quality Control	0,104	0.099	0.102	0.300
True Value QC	0.100	0.100	0,100	0.300
% Recovery	104.0	98.9	102	100.0
Relative Percent Difference	0.7	<0.1	1.3	3.9

METHOD: EPA SW-846 8260

Date

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 unalysts. 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. High A CARDINII Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its substituties, 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.



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(325) 673-7001 Fax (326) 673-7020 (505) 393-2326 Fav (605) 393-2476

	(325) 673-700	1 Fax (325) 673-70	20	(505	3) 39	3-23	26 F	ax ((505	3) 39	93-2	2476	3		•	٠.					Päga	of _	
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	W. Taylor									Con	npa	ny:						1				-	
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[†] Cardinal cannot accept verbal changes. Please fax written changes to (325) 673-7020.

RICL OPERATING COM: ANY

122 West Taylor Hobbs, NM 88240 Phone: (505) 393-9174 Fax: (505) 397-1471

VOC FIELD TEST REPORT FORM

CK. MODEL NO. LOT NO: 25-2 FILL DATE: 7/-2 ACCURACY: +/-2	<u> 28-05</u>	M 761S M 761S M 7600		SEI SEI ITION: ISOBUTYI	RIAL NO: 104412 RIAL NO: 104490 RIAL NO: 110-12383 LENE 100PPM / AIR: EXP. DATE:	
SYSTEM	JUNC	TION	UNIT'	SECTION	TOWNSHIP	RANGE
Vácuur	Jd. C	-7		7	18	35
				A COLOR OF THE COL		
SAMPLE S. W. 1 2 3 4 5 5 5 7 1 2 3 4 5 5 5 7 5 7 5 7 6 6 6 7 6 7 7 7 7 7 7 7		0.1	577 3 4 was	mega, diff world	PID Results	
I verify t					inufacture operation m	

RICE OPERATING COMPANY

122 West Taylor Hobbs, NM 88240 Phone: (505) 393-9174 Fax: (505) 397-1471

VOC FIELD TEST REPORT FORM

PID METER READING & CALIBRATION

CK. MODEL NO. LOT NO: 75 FILL DATE: /' ACCURACY: +/-	25.05	SE SEI ITION: ISOBUTYI	SERIAL NO: 104412 SERIAL NO: 104490 SERIAL NO: 110-12383 ON: ISOBUTYLENE 100PPM / AIR: BALANCE ZETER READING ACCURACY:								
SYSTEM	JUNC	TION	UNIT	SECTION	TOWNSHIP	RANGE					
Vacuum	Jet. C	-7		5-7	18	35					
1 3 4 5 5 5 7 1 1		\$\ 84 \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	5pt Ca	di. wall if if in up. At wall accordance to the ma	PID Results 593 50.1 231 0.0 95.9	ınual.					

Logger:		Tony Grieco	Client:		Well ID:		
Driller:	Har	rison & Cooper, Inc. Drilling	RICE Operating C	отрапу			
Drilling Method:		Air rotary	Project Name:				
Start Date:		2-9-09	Vacuum jct.	C-7			
End Date:	End Date: 2-9-09 Location:						
Comments: Located: TD = 30 ft		former junction box site V = 100 ft	Vacuum SWD S unit 'C' Sec.7 T18 Lea County,	S, R35E	SB-1		
Depth chloride (feet) field tests	PID	Description	Lithology		oil Bore estruction		
15 148 20 122 25 87	46.5	10 - 30 ft VERY FINE TO FINE SAND dry			bentonite		
30 117	1.9						
DRO GRO <10, <10							





ANALYTICAL RESULTS FOR RICE OPERATING COMPANY

ATTN: HACK CONDER. 122 W. TAYLOR

HOBBS, NM 88240

FAX TO: (575) 397-1471

COPY

Receiving Date: 02/10/09

Reporting Date: 02/27/09**
Project Owner: NOT GIVEN

Project Name: VACUUM C-7
Project Location: NOT GIVEN

Sampling Date: 02/09/09

Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: ZL Analyzed By: AB/HM

	GRO	DRO	
	(C ₆ -C ₁₀)	(>C ₁₀ -C ₂₈)	CI*
LAB NUMBER SAMPLE ID	(mg/kg)	(mg/kg)	(mg/kg)

ANALYSIS DATE	02/10/09	02/10/09	02/10/09
H16865-1 SB #1 @ 30'	<10.0	<10.0	16
			<u> </u>
Quality Control	549	562	500
True Value QC	500	500	500
% Recovery	110	112	100
Relative Percent Difference	3.0	7.1	2.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI: Std. Methods 4500-CIB *Analysis performed on a 1:4 w:v aqueous extract.

**Revised Report.

Chemist

Date



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name	" RICE C	OPERATING							li ji		1111	8/1	LETO		1				AN	ALY	YSIS	RE	QUE	ST			
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[†] Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

RICE OPERATING COMPANY

122 West Tayor Hobbs, NM 88240 PHONE: (575) 393-9174 FAX: (575) 397-1471 PID METER CALIBRATION & FIELD REPORT FORM



			Check I	Model Number:		•
✓ Mo	odel: PGM 7300	Serial No:	590-000183		Model: PGM 7600	Scrial No: 110-02
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I verify that I have calibrated the above instrument in accordance to the manufacture operation manual.

SIGNATUE:

DATE: 2/9/09

Hansen, Edward J., EMNRD

From:

Laura Pena < Ipena@riceswd.com>

Sent:

Monday, August 13, 2012 11:29 AM

To: Cc: Hansen, Edward J., EMNRD

Hack Conder; Katie Jones

Subject:

FW: ROC - Vacuum Jct. C-7 (1R425-75) Photo Documentation

Attachments:

Vacuum Jct. C-7 (1R425-75) Photo Documentation.pdf

Mr. Hansen,

Attached is the photo documentation resubmission of the Vacuum Jct. C-7 (1R425-75) site.

Thank you, Laura

From: Laura Pena

Sent: Friday, August 03, 2012 3:47 PM

To: Edward J. Hansen, EMNRD

Cc: Hack Conder

Subject: ROC - Vacuum Jct. C-7 (1R425-75) Photo Documentation

Mr. Hansen,

Attached is the photo documentation for the Vacuum Jct. C-7 (1R425-75) site as requested.

Let Hack Conder or me know if you have any questions or require any additional information.

Thank you,

Laura Peña **Environmental Project Scientist RICE Operating Company**

Vacuum Jct. C-7 (1R425-75) Unit C, Section 7, T17S, R35E



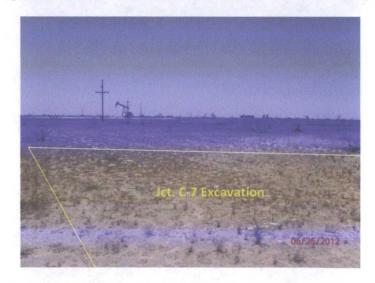




Facing north



Facing northwest



Facing southeast

6/26/2012

6/26/2012