1R- 425-84

REPORTS

DATE:



1R425-84

Vac Jct C-31 (2 boxes) 2009

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Environmental dureau Oil Conservation Division

DISCLOSURE

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RICE OPERATING COMPANY JUNCTION BOX DISCLOSURE* REPORT

APP - 6 2010 Environmental Bureau

				BOX LOC	ATION		Off Co	nservatio	- Dirna	ine.
SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNITY	BOX D	MENSIONS	- FEET?	on
	Jct. C-31	с	31	175	35E	Lea	Length	Width	Dep	ιh
Vacuum	(2 boxes)		3 r	1/5		Lea		Eliminated		
LAND TYPE:	BLM	STATE	FEE LAI	NDOWNER .	£)uke Energy				
Depth to Grou	indwater	fe	eet	NMC	DCD SITE	ASSESSMEN	T RANKING S	CORE:	0	
Date Started	12/16/	2009	Date Co	mpleted	6/8/200	<u>9 </u>) Witness:	no		
Soil Excavated	266.7	cubic yard	s Exe	cavation Ler	igth	<u>30 </u> Wid	th	Depth	12	feet
Soil Disposed	156	cubic yard	s Of	fsite Facility	St	undance	Location	Eunio	ce, NM	
INAL ANALYT		SULTS:	Sample	e Date		, 5/6/2009, 9, 6/2/2009	Sample De	pth	12 ft	

Procure 5-point composite sample of bottom and 4-point composite sample of sidewalls. TPH, BTEX and Chloride laboratory test results completed by using an approved lab and testing procedures pursuant to NMOCD guidelines.

Sample Location	Benzene mg/kg	Toluene mg/kg	Ethyl Benzene mg/kg	Total Xylenes mg/kg	PID (field) ppm	GRO mg/kg	DRO mg/kg	Chlorides mg/kg
4-WALL COMP.	<0.050	<0.050	0.363	1.48	205.0	69.1	1110	2,400
BOTTOM COMP.	<0.050	<0.050	<0.050	2.77	490.0	158	1590	944
BLENDED BACKFILL I					111.0	10.4	1130	1,200
BLENDED BACKFILL II	12.6				55.0	<10.0	312	400

General Description of Remedial Action:	These junction boxes were addressed
during the Vacuum SWD System Abandonment.	After the former junction boxes were
removed, an investigation was conducted using	a backhoe to collect soil samples at regular
intervals producing a 30x20x12-ft deep excavation	on. Chloride field tests were performed on
each sample and yielded elevated concentration	s. Organic vapors were measured using a PID
which yielded some elevated concentrations. Th	e excavated soil was blended on site.
Representative composite samples were collecte	d from the blended excavated soil, bottom,
and walls and sent to a commercial laboratory for	r analysis. Laboratory analysis of the
representative samples confirmed elevated conc	entrations of chloride and DRO. The blended
excavated soil was returned to the excavation up	to 5 ft below ground surface (BGS) where a
geosynethetic and plastic liner were installed. Th	ne remaining backfill was blended with clean,
imported soil and used to backfill the excavation	to ground surface and contoured to the
surrounding area. On 6/8/2009, the site was see	ded with a blend of native vegetation and is
expected to return to a productive capacity at a n	ormal rate. NMOCD was notified of potential
groundwater impact on 3/12/2010.	

CHLORIDE FIELD TESTS

LOCATION	DEPTH	mg/kg
	1'	570
	2'	840
	3'	504
vertical	4'	346
delineation	5'	359
trench at 5 ft	6'	360
west of the	7'	258
junction	8'	231
(source)	9'	227
	10'	266
	11'	303
	12'	331

ADDITIONAL EVALUATION IS LOW PRIORITY

enclosures: photos, lab results, PID (field) screenings, cross-section, BTEX study, chloride curve

1 HEF	REBY CERTIFY THAT			BOVE IS TRUE AND COMPL	ETE TO THE	BEST OF MY
SITE SUPERVISOR	Jordan Woodfin	SIGNATURE		SE AND BELIEF.	COMPANY	RICE OPERATING COMPANY
REPORT			12)	<u> </u>		
ASSEMBLED BY	Katie Jones	- INITIAL -	K/	Bruce Baker Mr.		3-25-16
PROJECT LEADER _	Larry Bruce Baker Jr.	_SIGNATURE_	any	Vouce Basier M.	_ DATE	<u>J-<u>x</u>5-70</u>

*This site is a "DISCLOSURE." It will be placed on a prioritized list of similar sites for further consideration.

Vacuum Jct C-31

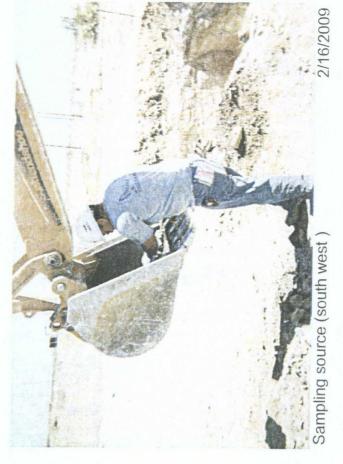


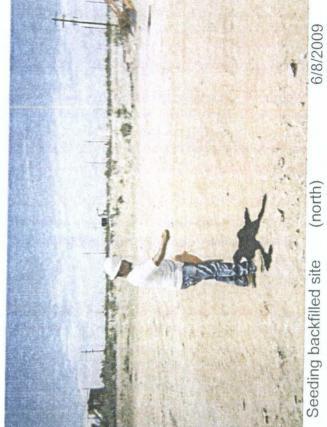
Site prior to excavation (east)

2/16/2009



Unit C, Section 31, T17S, R35E







Receiving Date: 05/05/08

Reporting Date: 05/06/09

Project Number: NOT GIVEN

Project Name: VACUUM JCT C-31

Project Location: VACUUM JCT C-31

LAB NO.

C

(mg/kg)

ANALYTICAL RESULTS FOR RICE OPERATING COMPANY ATTN: JORDAN WOODFIN 122 WEST TAYLOR HO3BS, NM 88240 FAX TO: (575) 397-1471



Analysis Date: 05/06/09 Sampling Date: 05/05/09 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: ML Analyzed By: HM

H17369-1	5 PT BTM COMP	944
H17369-7	4 WALL COMP	2,400
Quality Contro){	490
True Value QC	2	500
% Recovery		98.0
Relative Perce	ent Difference	2.0

SAMPLE ID

METHOD: Standard Methods 4500-CIB Note: Analyses performed on 1:4 w:v aqueous extracts.

Chemist

Hale Y Date

H17369 RICE

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ANALYTICAL RESULTS FOR RICE OPERATING COMPANY ATTM: JORDAN WOODFIN 122 W. TAYLOR HOBBS, NM 88240



Receiving Date: 05/05/09 Reporting Date: 05/08/09 Project Number: NOT GIVEN Project Name: VACUUM JCT C-31 Project Location: VACUUM JCT C-31 Sempling Date: 05/05/09 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: ML Analyzed By: AB

LAB NUMBE	R SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/kg)	DRO (>C ₁₀ -C ₂₃) (mg/kg)
ANALYSIS	DATE	05/08/09	05/08/09
H17369-1	5PT BTM COMP	158	1,590
H17369-7	4 WALL COMP	69.1	1,110
Quality Contr	rol	567	529
True Value C	2C	500	500
% Recovery		113	106
Relative Perce	cent Difference	1.9	<0.1

METHODS: TPH GRO & DRO: EPA SW-846 8015 M

LE. Chemist

5/2 7 Date

H17369 T RICE

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Receiving Date: 05/05/09

Reporting Date: 05/11/09

Project Number: NOT GIVEN Project Name: VACCUM JCT C-31

Project Location: VACCUM JCT C-31

ANALYTICAL RESULTS FOR RICE OPERATING COMPANY ATTN: JORDAN WOODFIN 122 W. TAYLOR HOBBS, NM 88240 FAX TO: (575) 397-1471



Sampling Date: 05/05/09 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: ML Analyzed By: ZL

			ETHYL	TOTAL
	BENZENE	TOLUENE	BENZENE	XYLENES
LAB NUMBERSAMPLE ID	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
ANALYSIS DATE	05/10/09	05/10/09	05/10/09	05/10/09
H17369-1 5FT BTM COMP	< 0.050	< 0.050	<0.050	2.77
H17369-C COMPOSITE OF BTM PT. #1 THRU #5	< 0.050	< 0.050	0.383	2.10
H17369-7 4 WALL COMP	<0.050	<0.050	0.363	1.48
Quality Control	0.053	0.053	0.048	0.152
True Value QC	0.050	0.050	0.050	0.152
% Recovery	106	106	96.0	101
Relative Percent Difference	7.5	12.0	11.1	9.2

METHOD: EPA SW-846 80218

TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES.

Chemist

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222: 122 N 74 Y LON	(Company:	
10385	State: N/V Zip: & 8 24 0	Attn:	
Phone #: 393-9174 Fax #:	<pre>(#:</pre>	Address:	
Project #: Pro	Project Owner:	City:	
Project Name: Vacuum Jet	31	State: Zip;	
Project Location: Vacuury JC	1 6-31	#	
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ANALYTICAL RESULTS FOR RICE OPERATING COMPANY ATTN: JORDAN WOODFIN 122 W. TAYLOR HOBBS, NM 88240 FAX TO: (575) 397-1471

Receiving Date: 05/05/09 Reporting Date: 05/11/09 Project Number: NOT GIVEN Project Name: VACCUM JCT C-31 Project Location: VACCUM JCT C-31 Sampling Date: 05/05/09 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: ML Analyzed By: ZL

LAB NUMBEF SAMPLE ID	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)
ANALYSIS DATE	05/11/09	05/11/09	05/11/09	05/11/09
H17368-C COMPOSITE OF NORTH, SOUTH, EAST, AND WEST WALLS	<0.050	< 0.050	0.379	1.48
Quality Control	0.053	0.053	0.048	0.152
True Value QC	0.050	0.050	0.050	0.150
% Recovery	106	106	96.0	101
Relative Percent Difference	7.5	12.0	11.1	9.2

METHOD: EPA SW-846 80215

TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES.

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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RDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 月

Company Num: EUCID 303-2456 (325) 673-7001 FAX (325) 673-7001 Frongert Manager: Zet C (7) (7) (7) (7) (7) (7) (7) (7) (7) (7)	001 FAX (325)673-7020 ANALYSIS REQUEST P.O. #: ANALYSIS REQUEST P.O. #: ANALYSIS REQUEST P.O. #: Company: Company: Company: Company: Company: P.O. #: Autores: Autores: Anth: P.O. #: Autores: Autores: Anth: P.O. #: Autores: Autores: Anth: P.D. #: P.D. # P.D. #: P.D. # P.D. # P.D. #	S REQUEST
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ANALYTICAL RESULTS FOR RICE OPERATING COMPANY ATTN: JORDAN WOODFIN 122 W. TAYLOR HOBBS, NM 88240

Receiving Date: 05/11/09 Reporting Date: 05/12/09 Project Number: NOT GIVEN Project Name: VACUUM JCT C-31 Project Location: VACUUM JCT C-31 Sampling Date: 05/11/09 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: ML Analyzed By: AB/HM

	DRO	GRO
Cf*	>C ₁₀ -C ₂₈)	(C ₆ -C ₁₀) (
(mg/kg)	(mg/kg)	(mg/kg)

LAB NUMBER SAMPLE ID

ANALYSIS DATE	05/12/09	05/12/09	05/12/09
H17403-1 BLENDED BACKFILL	10.4	1, 1 30	1,200
Quality Control	518	436	500
True Value QC	500	500	500
% Recovery	104	87.2	100
Relative Percent Difference	1.2	1.0	< 0.1

METHODS: TPH GRO & DRO: EPA SW-843 8015 M; CIT: Sid. Methods 4500-CITB *Analysis performed on a 1:4 w:v aqueous extract.

Chemist

Date

H17403 TOL RICE

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(575) 393-2326 Fax (575) 393-2476		Page of
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RICE OPERATING COMPANY



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



Model: PGM 7300 Ser Model: PGM 7300 Ser Model: PGM 7300 Ser

Serial No: 590-000183 Serial No: 590-000508 Serial No: 590-000504

Check Model Number: 000183 000508 000504

Model: PGM 7600 [Model: PGM 7600 [Model: PGM 7600 Serial No: 110-023920 Serial No: 110-013744 Serial No: 110-013676

GAS COMPOSITION, ISOBUTYLENE 100PPM / AIR: BALANCE

LOT NO: 08-3425	EXPIRATION DATE: 8-29-09
FILL DATE: 2-29-08	METER READING ACCURACY: 98.4

ACCURACY : +/- 2%

SYSTEM	JUNCTION	UNIT	SECTION	TOWN SHIP	RANGE
Vac	C-31	C	31	17	35

SAMPLE ID	PID	SAMPLE ID	PD
pt 1	250	North	94
pt 2	22.5	South	414
pt3	575	EAST	97
pt 4	75	WEST	203
ot 5	55	4 Wall Comp	205
Spt Btu Comp	490		
V d		Blended Backfill	111
	-		

I verify that I have calibrated the above instrument in accordance to the manufacture operation manual.

Indan Weed SIGNATUE

DATE 5-5-09



ANALYTICAL RESULTS FOR RICE OPERATING COMPANY ATTN: JORDAN WOODFIN 122 W. TAYLOR HOBBS, NM 88240

Receiving Date: 06/02/09 Reporting Date: 06/05/09 Project Number: NOT GIVEN Project Name: VACUUM JCT C-31 Project Location: VACUUM JCT C-31

Sampling Date: 06/02/09 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: ML Analyzed By: AB

GRO DRO

(C₆-C₁₀) (>C₁₀-C₂₈) CI* (mg/kg) (mg/kg) (mg/kg)

LAB NUMBER SAMPLE ID

ANALYSIS DATE	06/04/09	06/04/09	06/03/09
H17539-1 BLENDED BACKFILL II	<10.0	3:12	400
Quality Control	486	453	490
True Value QC	500	500	500
% Recovery	97.2	90.6	98.0
Relative Percent Difference	2.5	0.6	2.0

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

Chemist

Date

H17539 TCL RICE

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ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240 (575) 393-2326 Fax (575) 393-2476	Company Name: C.C.E. OPERATING	Project Manager: Surver (USA) 75/11	Address: 122 Cui TrA V. Cit	P5 State////	Phone #: 30な シルブイ Fax #:	-	Project Name: Voic Luci Art C		 Lab I.D. Sample I.D.	· · · · · ·	HTCH Blade Texted T			PLEASE NOLE: Livibility and Usinsiges. Cardinal's litibility and clicul's exclusive remedy for any chain arising whicher based i analyses. All claims including those for negligratice and any other cause whatsoever shall be deemed waived unloss made in service. In no event shall Cardinal be liable for incidental or consequental damagas, including without limitation, business rine service.	arithmes u successors ansure out or or related to the performance of services inserunder by Cardinal, regardless Samiptler Reliniguished: Date:	Relinquished By: Date: 1.45	Time:	. Delivered Bv: (Ĉircle Õne)	

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Model: PGM 7300 Model: PGM 7300 Model: PGM 7300 Serial No: 590-000183 Serial No: 590-000508 Serial No: 590-000504

Model: PGM 7600 Model: PGM 7600 Model: PGM 7600

0 Serial No: 110-023920 0 Serial No: 110-013744 0 Serial No: 110-013676

GAS COMPOSITION: ISOBUTYLENE 100PPM / AIR: BALANCE

LOT NO: 053425	EXPIRATION DATE: 2-29-09						
FILL DATE: Z-Z4-08	METER READING ACCURACY: (CO						

ACCURACY : +/- 2%

SYSTEM	JUNCTION	UNIT	SECTION	TOWN SHIP	RANGE
Vacuum	C-31	С	31	175	35 E

SAMPLE ID	PID	SAMPLE ID	PID
SAMPLE ID Blended Backfill I	55		
	\bigcirc	OPY	
	9		
		· · · · · · · · · · · · · · · · · · ·	

I verify that I have calibrated the above instrument in accordance to the manufacture operation manual.

SIGNATURE Jordon Woord

DATE: 12 - 2 - 09

Vacuum Jct C-31 Unit 'C', Sec. 31, T17S, R35E

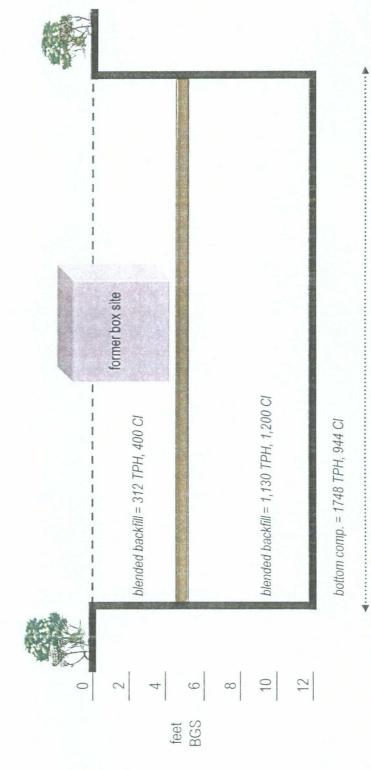
Excavation Cross-Section



5

Excavation Boundary

GCL



2009 BTEX Study

Revised Junction Box Upgrade Plan (2003)

5/5/2009	Jordan Woodfin
Date:	Sampler:
Vacuum	Jct. C-31
System:	Site:

Cardinal Laboratories

Laboratory:

	factoria	PID reading	LL.	FIELD COMPOSITE	TE (mg/kg)	(
		(mdd)	Benzene	Toluene	Ethyl Benzene Total Xylenes	Total Xylenes
11	North Wall	94				
4-Wall	South Wall	414			0.000	C V
	East Wall	67	000.0~	000.02	0.00C	1.40
	West Wall	203				
				LAB COMPOSITE	E (mg/kg)	
						<u>а де разран</u> ет
			<0.050	<0.050	0.379	1.48

Field PID tests <100 ppm are considered final for BTEX. If PID is >100 ppm, the components of the BTEX composite sample will be collected individually and will be composited under laboratory conditions to prevent excessive volatilization. A 15-box, 30-sample study will be made to compare field-compositing with lab-compositing BTEX samples. Composite components are Revised Junction Box Upgrade Work Plan (July 16, 2003) collected in a skewed 'W' pattern.

2009 BTEX Study

Revised Junction Box Upgrade Plan (2003)

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Cardinal	Laboratories	,
Laboratory:		
5/5/2009	Jordan Woodfin	FIFLD COMPOSITE
Date:	Sampler:	
		DID readi
Vacuum	Jct. C-31	
System:	Site:	

LAB COMPOSITE (mg/kg)	<0.0
	<0.050 <0.050
	250 22.5 575 75 66
- -	57 4 00 07
	bottom composite at 12 ft BGS

Field PID tests <100 ppm are considered final for BTEX. If PID is >100 ppm, the components of the BTEX composite sample will be collected individually and will be composited under laboratory conditions to prevent excessive volatilization. A 15-box, 30-sample study will be made to compare field-compositing with lab-compositing BTEX samples. Composite components are collected in a skewed 'W' pattern.

CHLORIDE CONCENTRATION CURVE

RICE Operating Company

Vacuum Jct C-31 Unit 'C', Sec. 31, T17S, R35E

Backhoe samples at 5 ft west of the junction (source)

[<u>C</u> l] ppm	570	840	504	346	359	360	258	231	227	266	303	331
Depth bgs (ft)	1	2	3	4	5	9	7	8	6	10	11	12

