

1R - 426-316

## REPORTS

DATE:

3-13-13

1R426-316

RECEIVED

APR 2 2013

Oil Conservation Division  
1220 S. St. Francis Drive  
Santa Fe, NM 87505

BD H-36 vent  
2012

DISCLOSURE

# RECEIVED

## RICE OPERATING COMPANY JUNCTION BOX DISCLOSURE\* REPORT

APR 2 2013

Oil Conservation Division

BOX LOCATION							BOX DIMENSIONS - FEET		
SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	Length	Width	Depth
Blinebry-Drinkard (BD)	H-36 vent	H	36	22S	37E	Lea	4'	5'	3'
Eliminated									

LAND TYPE: BLM STATE FEE LANDOWNER D.K.Boyd Oil and Gas Co. OTHER

Depth to Groundwater 41 feet NMOCD SITE ASSESSMENT RANKING SCORE: 20

Date Started 10/11/2011 Date Completed 4/25/2012 OCD Witness no

Soil Excavated 267 cubic yards Excavation Length 30 Width 20 Depth 12 feet

Soil Disposed 344 cubic yards Offsite Facility Sundance Services Location Eunice, NM

FIELD SOURCE RESULTS: Sample Date 4/16/2012 Sample Depth 12 ft.

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

Sample Location	PID (field) ppm	GRO mg/kg	DRO mg/kg	Chlorides mg/kg
4-WALL COMP.	1.1	<10	76.8	4,400
BOTTOM COMP.	2.1	<10	113	10,600
BLENDED BACKFILL	0.9	<10	49.9	5,760

### CHLORIDE FIELD TESTS

LOCATION	DEPTH	mg/kg
4 wall comp.	n/a	2,407
bottom comp.	12'	5,102
backfill comp.	n/a	3,080
background	6"	60
vertical delineation trench at junction (source)	2'	5,041
	3'	2,411
	4'	2,970
	5'	2,390
	6'	2,433
	7'	1,607
	8'	2,885
	9'	2,366
	10'	3,537
	11'	5,881
	12'	4,378

**General Description of Remedial Action:** This junction box was eliminated during the pipeline replacement/upgrade program. After the former junction box was removed, an investigation was conducted using a backhoe to collect soil samples at regular intervals producing a 30x20x12 ft deep excavation. Chloride field tests performed on soil samples did not decrease with depth. Organic vapors were measured using a PID which yielded low concentrations. The excavated soil was blended on site and representative composite samples of the excavation bottom, the excavation walls, and the blended backfill were sent to a commercial laboratory for analysis of chloride and TPH. A total of 344 yards of blended backfill was transported to a NMOCD approved disposal facility. The excavation was backfilled to 6 ft. below ground surface (BGS). On 4/23/2012, a 30x20 ft. 20-mil reinforced liner was installed at 6 ft. BGS and the remainder of the excavation was backfilled with clean imported soil to ground surface and contoured to the surrounding area. On 4/25/2012, the site was seeded with a blend of native vegetation and is expected to return to a productive capacity at a normal rate. NMOCD was notified of potential groundwater impact on 2/20/2013.

Additional evaluation is **HIGH** priority.

Enclosures: site location map, photos, lab results, PID (field) screenings, cross-section diagram, chloride curve, revegetation form

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

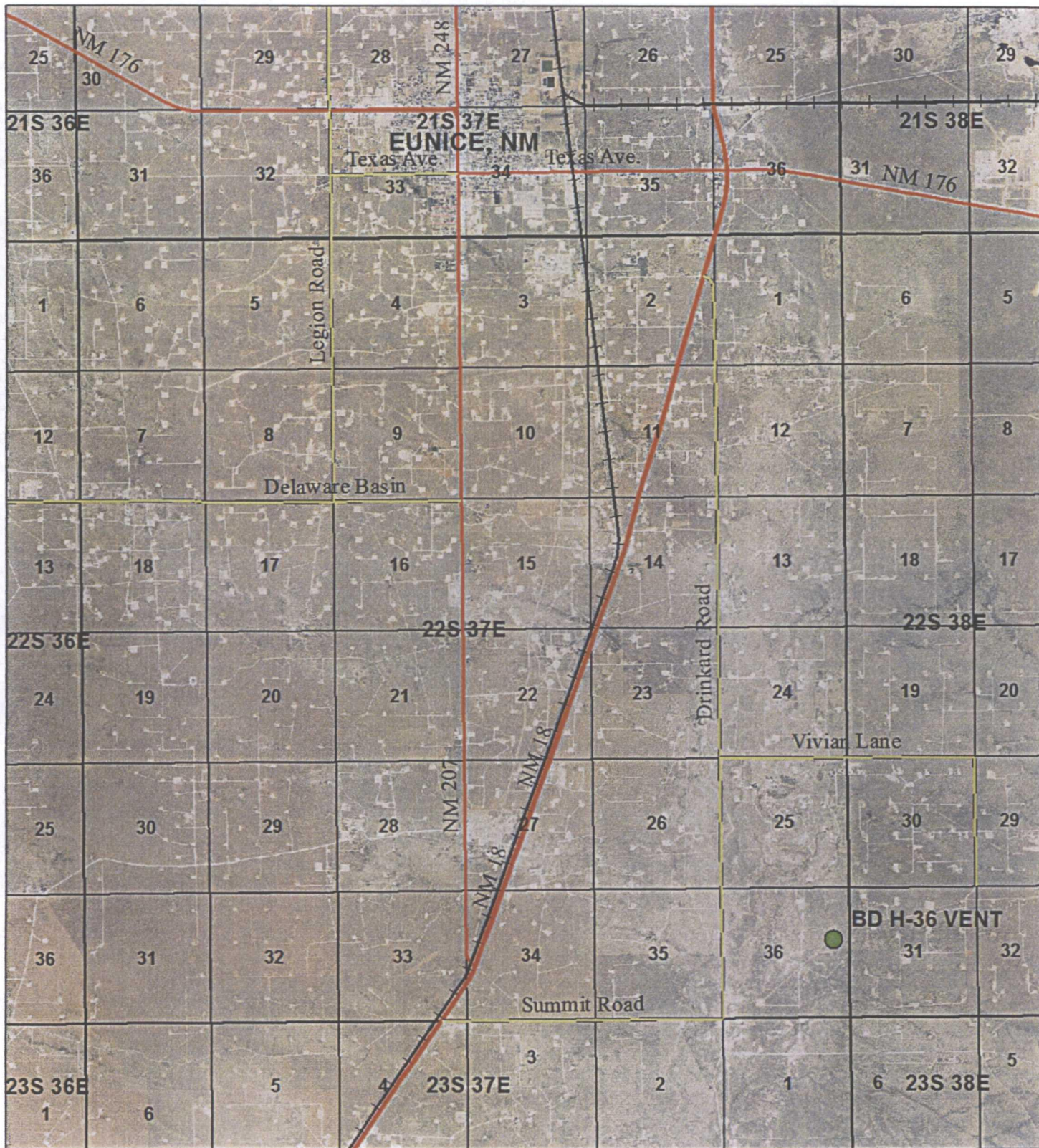
REPORT ASSEMBLED BY Laura Peña SIGNATURE *Laura Peña* COMPANY Rice Operating

SITE SUPERVISOR Oscar Frayre SIGNATURE Not Available COMPANY Rice Environmental Consulting & Safety

PROJECT LEADER Zach Conder SIGNATURE *Zach Conder* DATE 3-13-13

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





## BD H-36 VENT

UL/H SECTION 36  
T-22-S R-37-E  
LEA COUNTY, NM



0 1 2  
Miles

Drawing date: 11/7/12  
Drafted by: Tony Grieco



# BD H-36 Vent

UL/H Sec.36 (T22S-R37E)



Site prior, facing north

10/3/2011



Excavating site, facing east

4/16/2012



Collecting sample, facing east

4/16/2012



Exporting soil, facing southeast

4/20/2012



Installing 30x20, 20 mil reinforced liner @  
6' bgs, facing east

4/23/2012



Site complete, facing south

4/25/2012



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

April 18, 2012

ZACH CONDER

Rice Operating Company

112 W. Taylor

Hobbs, NM 88240

RE: BD H-36 VENT (22/37)

Enclosed are the results of analyses for samples received by the laboratory on 04/16/12 16:15.

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 [www.tceq.texas.gov/field/ca/lab/accred/certif.html](http://www.tceq.texas.gov/field/ca/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

COPY

**Analytical Results For:**

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

 Received: 04/16/2012  
 Reported: 04/18/2012  
 Project Name: BD H-36 VENT (22/37)  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 04/16/2012  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: 5 PT BOTTOM (H200871-01)**

Chloride, SM4500CI-B			mg/kg		Analyzed By: HM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10600	16.0	04/18/2012	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	<10.0	10.0	04/17/2012	ND	183	91.5	200	0.212	
DRO >C10-C28	113	10.0	04/17/2012	ND	194	97.0	200	0.820	

Surrogate: 1-Chlorooctane 93.8 % 55.5-154

Surrogate: 1-Chlorooctadecane 102 % 57.6-158

**Sample ID: 4 WALL (H200871-02)**

Chloride, SM4500CI-B			mg/kg		Analyzed By: HM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4400	16.0	04/18/2012	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	<10.0	10.0	04/17/2012	ND	183	91.5	200	0.212	
DRO >C10-C28	76.8	10.0	04/17/2012	ND	194	97.0	200	0.820	

Surrogate: 1-Chlorooctane 86.0 % 55.5-154

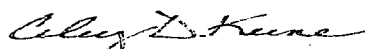
Surrogate: 1-Chlorooctadecane 86.5 % 57.6-158

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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

**Analytical Results For:**

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

Received:	04/16/2012	Sampling Date:	04/16/2012
Reported:	04/18/2012	Sampling Type:	Soil
Project Name:	BD H-36 VENT (22/37)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: 8 PT BLENDED BACKFILL (H200871-03)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5760	16.0	04/18/2012	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	<10.0	10.0	04/18/2012	ND	183	91.5	200	0.212	
DRO >C10-C28	49.9	10.0	04/18/2012	ND	194	97.0	200	0.820	
Surrogate: 1-Chlorooctane									
	79.5 %	55.5-154							
Surrogate: 1-Chlorooctadecane									
	77.4 %	57.6-158							

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*Celestine D. Keene*

Celestine D. Keene, Lab Director/Quality Manager



**Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

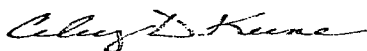
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Celey D. Keene, Lab Director/Quality Manager



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

Company Name: <i>Rein Operating</i>		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>																						
Project Manager: <i>Zach Corral</i>		P.O. #:		<div style="text-align: center; font-size: 2em; transform: rotate(-90deg);">CLC Tp 4 8015 m</div>																						
Address: <i>1323 West Taylor</i>		Company:																								
City: <i>Hobbs</i> State: <i>NM</i> Zip: <i>88240</i>		Attn:																								
Phone #: Fax #:		Address:																								
Project #: Project Owner:		City:																								
Project Name:		State: Zip:																								
Project Location: <i>BD H-34 Vent 22.37</i>		Phone #: Fax #:																								
Sampler Name: <i>Oscar Enrique</i>		Fax #:																								
FOR LAB USE ONLY																										
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX				PRESERV.	SAMPLING																	
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME												
<i>H200871</i>																										
	<i>5pt Bottom</i>	<i>C</i>				<i>X</i>				<i>X</i>			<i>4-16-12</i>	<i>3:20</i>	<i>X</i>	<i>X</i>										
	<i>4 WALL</i>	<i>C</i>				<i>X</i>				<i>X</i>			<i>4-16-12</i>	<i>3:30</i>	<i>X</i>	<i>X</i>										
	<i>8pt Blended Backfill</i>	<i>C</i>				<i>X</i>				<i>X</i>			<i>4-16-12</i>	<i>3:40</i>	<i>X</i>	<i>X</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 in relation 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>4-16-12</i> Time: <i>4:15</i>	Received By: <i>Jodi Benson</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
Relinquished By: <i>[Signature]</i>	Date: _____ Time: _____	Received By: _____	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:			Sample Condition Cool/Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No
CHECKED BY: <i>[Signature]</i>			REMARKS: <i>Hack, Zach, Katie, Laura, Oscar, Bruce</i> <i>Email Eugene please</i>

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

#26

# RICE ENVIRONMENTAL CONSULTING & SAFETY

122 West Taylor Hobbs, NM 88240  
PHONE: (505) 393-9174 FAX: (505) 397-1471  
PID METER CALIBRATION & FIELD REPORT FORM

CK.	<input type="checkbox"/>	MODEL: PGM 7300	SERIAL NO: 590-000508
MODEL	<input type="checkbox"/>	MODEL: PGM 7300	SERIAL NO: 590-000504
NO.	<input checked="" type="checkbox"/>	MODEL: PGM 7320	SERIAL NO: 592-903318
	<input type="checkbox"/>	MODEL: PGM 7300	SERIAL NO: 590-000183

GAS COMPOSITION: ISOBUTYLENE 100PPM / AIR: BALANCE

LOT NO: HAL-248-100-1	EXPIRATION DATE: 7/1/2015
METER READING ACCURACY: 100	

ACCURACY : +/- 2%

<b>COMPANY</b>
RICE OPERATING

SYSTEM	JUNCTION	UNIT	SECTION	TOWN SHIP	RANGE
BD	H-36 vent	H	36	22S	37E

SAMPLE ID	PID	SAMPLE ID	PID
4-WALL COMPOSITE	1.1		
BOTTOM COMPOSITE	2.1		
BLENDED BACKFILL	0.9		

COPY

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

SIGNATURE: \_\_\_\_\_ Not Available \_\_\_\_\_ DATE: 4/16/2012

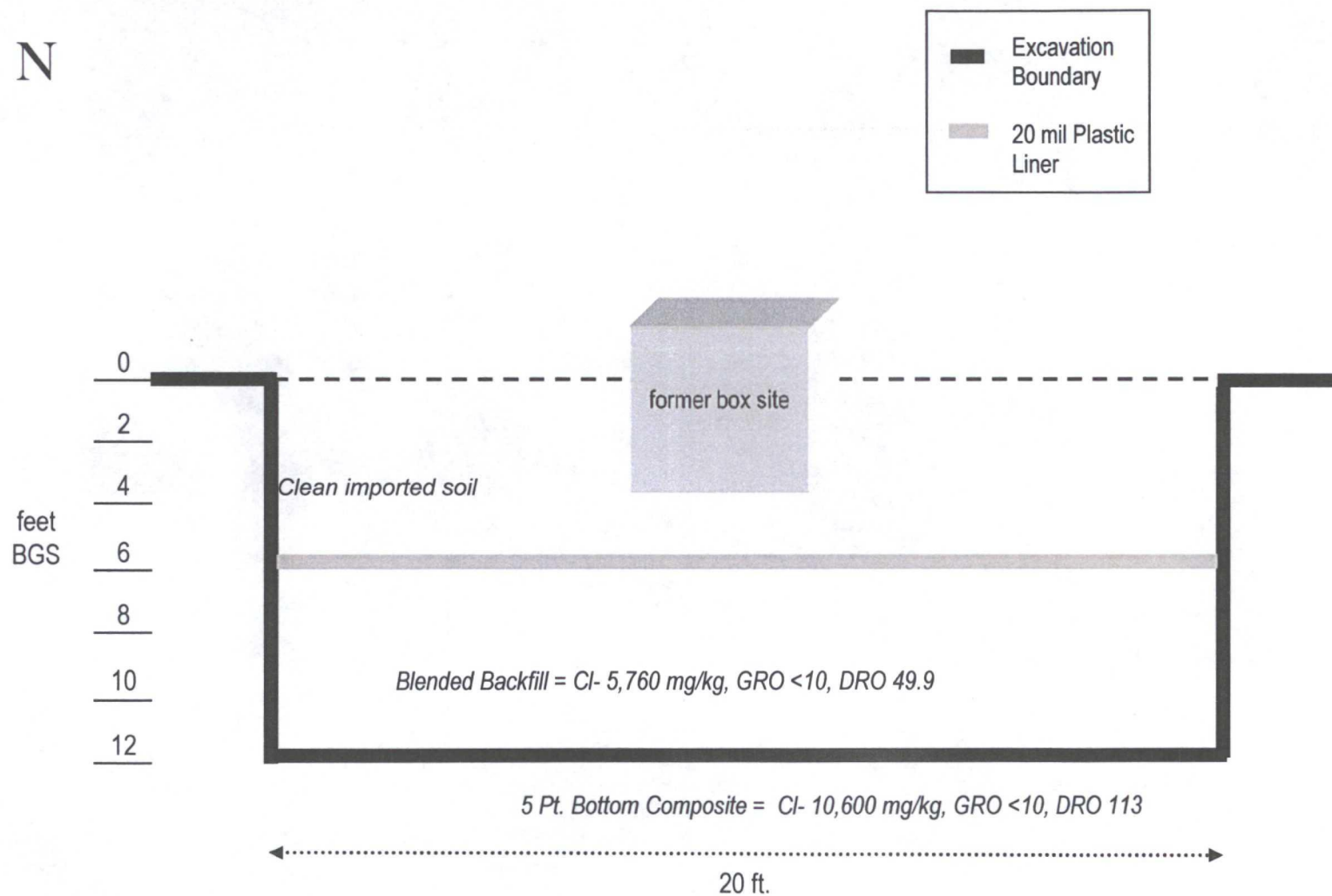


BD H-36 vent  
Unit 'H', Sec. 36, T22S, R37E

## Excavation Cross-Section

N

S

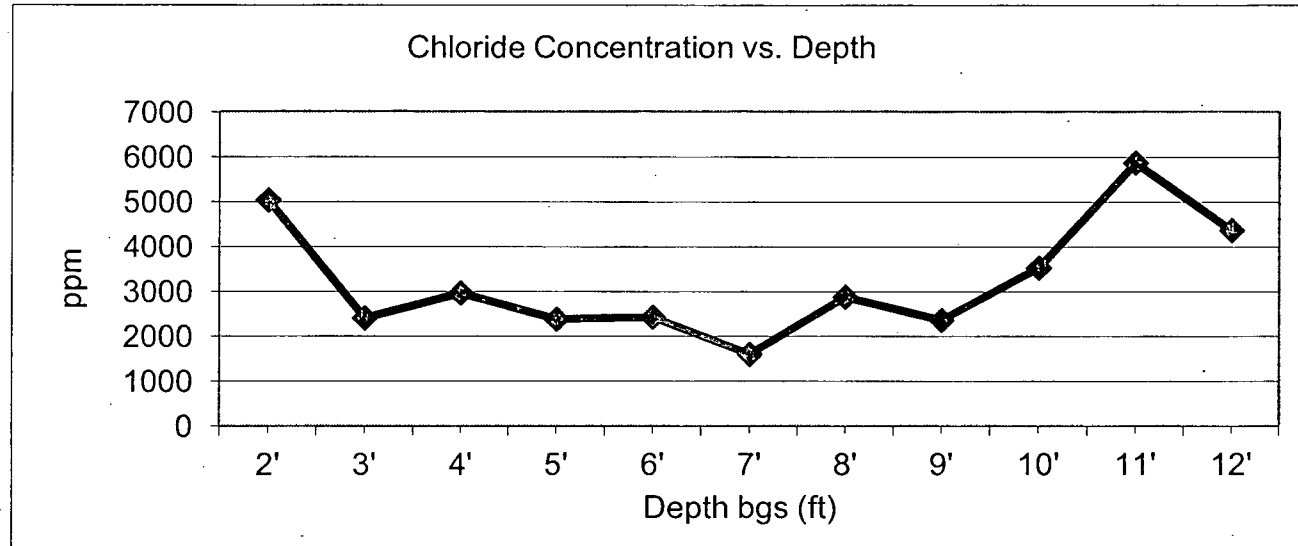


**BD H-36 vent**

Unit 'H', Sec. 36, T22S, R37E

*Backhoe samples at the junction (source)*

Depth bgs (ft)	[Cl] ppm
2'	5041
3'	2411
4'	2970
5'	2390
6'	2433
7'	1607
8'	2885
9'	2366
10'	3537
11'	5881
12'	4378



Groundwater = 41 ft



PO Box 5630  
Hobbs, NM 88241  
Phone: (575) 393-4411  
Fax: (575) 393-0293

## VEGETATION FORM

### 1. General Information

Site name: BD H-36 VENT						
U/L H	Section 36	Township 22S	Range 37E	County Lea	Latitude 32° 20' 52.6" N	Longitude 103° 7' 2.3" W
Contact Name: Zack Conder						
Email: <a href="mailto:zconder@rice-ecs.com">zconder@rice-ecs.com</a>						
Site size: 8,364		square feet		Map detail of site attached <input type="checkbox"/>		
Additional information: The excavation is backfilled with salvaged and imported soil.						

### 2. Soils

*\*Do not rip caliche subsoils; caliche rocks brought to the surface by ripping shall be removed.*

Salvaged from site <input checked="" type="checkbox"/>	Bioremediated <input type="checkbox"/>	Imported <input checked="" type="checkbox"/>	Blended <input type="checkbox"/>	Depth (in):
Texture: Sandy		Describe soil & subsoil: Blow sand and subsoil caliche		
Soil prep methods:	Rip <input type="checkbox"/>	Depth(in):	Disc <input type="checkbox"/>	Depth (in):
Rollerpack <input type="checkbox"/>				
Date completed: 4-25-12				

### 3. Bioremediation

Fertilizer <input type="checkbox"/>	Hay <input type="checkbox"/>	Other <input type="checkbox"/>
Type:		Describe:
Lbs/acre:		

### 4. Seeding

*\*Attach seed bag tags to this form. Seed bag tags shall contain the site name and S-T-R.*

Custom seed mix <input checked="" type="checkbox"/>	Prescribed mix <input type="checkbox"/>	Seed mix name: LEA COUNTY MIX	Seeding date: 4/25/2012
Broadcast <input checked="" type="checkbox"/>			
Method: Portable seeder			
Soil conditions during seeding: Dry <input checked="" type="checkbox"/> Damp <input type="checkbox"/> Wet <input type="checkbox"/>			
Photos attached <input type="checkbox"/>	Observations:		
Number of photos:			

### 5. Certification

I hereby certify that the information in this form and attachments is true and complete to the best of my knowledge and belief.

Name: OSCAR FRAYRE	Title: Environmental Tech.	Date: 4-25-12
Signature: Not Available		

COPY