

1R - 426-317

REPORTS

DATE:

3-4-13

1R426-317

RECEIVED

APR 2 2013

Oil Conservation Division
1220 S. St. Francis Drive
Santa Fe, NM 87503

BD H-36-2 vent
2012

DISCLOSURE

RECEIVED

RICE OPERATING COMPANY JUNCTION BOX DISCLOSURE* REPORT

APR 2 2013

BOX LOCATION

Oil Conservation Division

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIMENSIONS	STREET DRIVE
Blinebry-Drinkard (BD)	H-36-2 vent	H	36	22S	37E	Lea	Length 5'2" Width 6'4" Moved 48' East	IM 36th St

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 10/12/2011 Date Completed 4/30/2012 OCD Witness No

Soil Excavated 177.8 cubic yards Excavation Length 20 Width 20 Depth 12 feet

Soil Disposed 236 cubic yards Offsite Facility Sundance Services, Inc. Location Eunice, NM

FINAL ANALYTICAL RESULTS: Sample Date 4/26/2012 Sample Depth 12'

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	Chloride mg/kg
4-WALL COMP.	3.1	<10.0	<10.0	2720
BOTTOM COMP.	4.7	<10.0	<10.0	2120
BLENDED BACKFILL	2.0	<10.0	<10.0	848

CHLORIDE FIELD TESTS		
LOCATION	DEPTH	mg/kg
background	6"	29
4-WALL Comp	n/a	2356
Bottom Comp	12'	962
Blended Backfill	n/a	1319
Vertical delineation trench at the former junction (source)	2'	3522
	3'	1898
	4'	3460
	5'	1702
	6'	2764
	7'	720
	8'	891
	9'	3293
	10'	3184
	11'	2979
	12'	2556

General Description of Remedial Action:

An investigation was conducted using a backhoe to collect soil samples at regular intervals, producing a 20x20x12 ft deep excavation. Chloride field tests were performed on soil samples which yielded elevated concentrations. 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. Sample analysis showed elevated chloride concentrations. A total of 236 yards of excavated soil from was the shelf was properly disposed of at a NMOCD approved disposal facility. A 6 ft. deep shelf was excavated, extending 5 ft. out from the East, West and South walls, making the excavation dimensions 30x25x6 ft deep. The excavated soil was used to backfill the

the excavation to a depth of 6 ft. below ground surface (BGS). On 4/27/2012, a 20-mil reinforced

plastic liner was installed at 6 ft. BGS. The remaining excavation was backfilled with clean imported soil to ground surface and contoured to the surrounding area. On 4/30/2012, the site was seeded with a blend of native vegetation and is expected to return to a productive capacity at a normal rate. A new water tight junction box was built 48 ft. east. NMOCD was notified of potential groundwater impact on 9/25/2012.

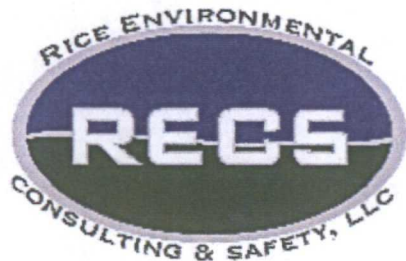
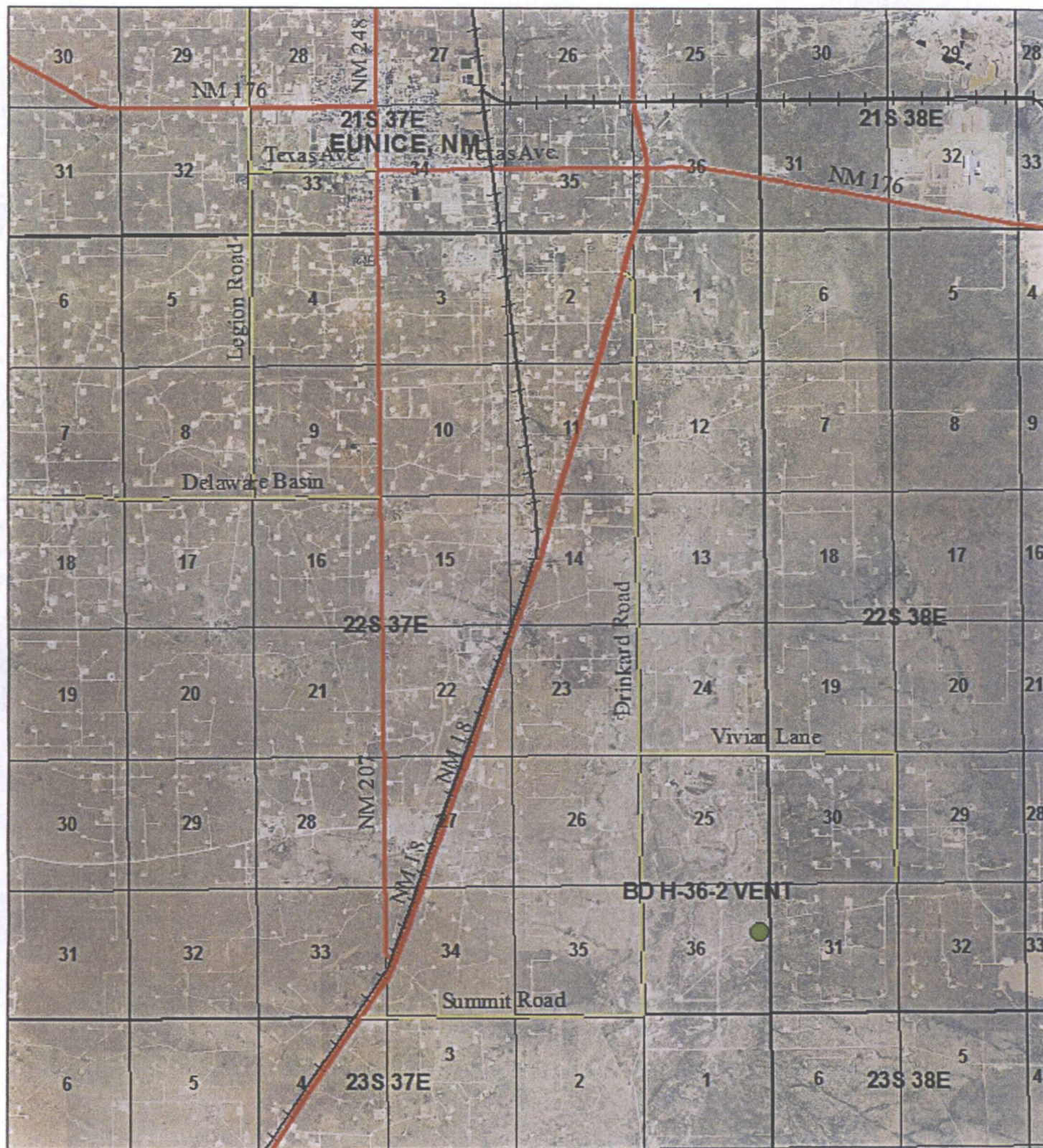
ADDITIONAL EVALUATION IS HIGH PRIORITY

Enclosures: site map, photos, laboratory analysis, PID (field) screenings, cross-section diagram, chloride graph, revegetation form

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

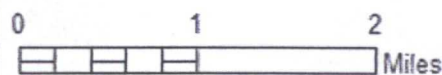
REPORT ASSEMBLED BY Laura Peña SIGNATURE *Laura Peña* COMPANY Rice Operating
SITE SUPERVISOR Oscar Frayre SIGNATURE Not Available COMPANY Rice Environmental Consulting & Safety
PROJECT LEADER Zach Conder SIGNATURE *Zach Conder* DATE 3-4-13

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



BD H-36-2 VENT

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



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

BD H-36-2 vent

UL/H Sec.36 (T22S-R37E)



Digging vertical, facing south 10/13/2011



Collecting sample, facing south 4/26/2012



Excavating shelf, facing northwest 4/27/2012



Installing liner, facing southeast 4/27/2012



Backfilling site with imported soil, facing southeast 4/27/2012



Seeding site, facing south 4/30/2012



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

April 30, 2012

ZACH CONDER

Rice Operating Company

112 W. Taylor

Hobbs, NM 88240

RE: BD H-36-2 VENT 22/37

Enclosed are the results of analyses for samples received by the laboratory on 04/26/12 16:45.

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/qa/lab_accrad_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: 04/26/2012
 Reported: 04/30/2012
 Project Name: BD H-36-2 VENT 22/37
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 04/26/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: 5 PT. BOTTOM (H200963-01)

Chloride, SM4500CI-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2120	16.0	04/27/2012	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	04/27/2012	ND	180	90.1	200	0.230	
DRO >C10-C28	<10.0	10.0	04/27/2012	ND	184	91.9	200	1.50	
Surrogate: 1-Chlorooctane	102 %	55.5-154							
Surrogate: 1-Chlorooctadecane	101 %	57.6-158							

Sample ID: 4 WALL (H200963-02)

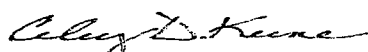
Chloride, SM4500CI-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2720	16.0	04/27/2012	ND	416	104	400	0.00	
TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/27/2012	ND	180	90.1	200	0.230	
DRO >C10-C28	<10.0	10.0	04/27/2012	ND	184	91.9	200	1.50	
Surrogate: 1-Chlorooctane	101 %	55.5-154							
Surrogate: 1-Chlorooctadecane	104 %	57.6-158							

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Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	04/26/2012	Sampling Date:	04/26/2012
Reported:	04/30/2012	Sampling Type:	Soil
Project Name:	BD H-36-2 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 (H200963-03)

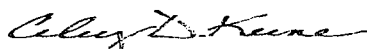
Chloride, SM4500Cl-B			mg/kg							Analyzed By: HM
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	848	16.0	04/27/2012	ND	416	104	400	0.00		
TPH 8015M			mg/kg							Analyzed By: MS
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/27/2012	ND	180	90.1	200	0.230		
DRO >C10-C28	<10.0	10.0	04/27/2012	ND	184	91.9	200	1.50		
Surrogate: 1-Chlorooctane	104 %	55.5-154								
Surrogate: 1-Chlorooctadecane	108 %	57.6-158								

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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

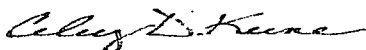
Samples reported on an as received basis (wet) unless otherwise noted on report

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*=Accredited Analyte

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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: <u>Rice Operating</u>				BILL TO												ANALYSIS REQUEST											
Project Manager: <u>Zack Conder</u>				P.O. #:																							
Address: <u>1322 W. Taylor</u>				Company:																							
City: <u>Hobbs</u> State: <u>N.M.</u> Zip: <u>88240</u>				Attn:																							
Phone #: Fax #:				Address:																							
Project #: Project Owner:				City:																							
Project Name:				State: Zip:																							
Project Location: <u>BD H-36-2 Vent 22.37</u>				Phone #:																							
Sampler Name: <u>Oscar Frayre</u>				Fax #:																							
FOR LAB USE ONLY																											
Lab I.D.	Sample I.D.	GRAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.			SAMPLING															
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME													
H200963																											
1	Spt Bottom	C	1							X			4-26-12	11:00	X	X											
2	4 WALL	C	1							X			4-26-12	11:15	X	X											
3	Spt Blended Backfill	C	1							X			4-26-12	11:30	X	X											

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: <u>[Signature]</u>	Date: <u>4-26-12</u>	Received By: <u>[Signature]</u>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By: <u>[Signature]</u>	Time: <u>4:45</u>	Received By: <u>[Signature]</u>	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Sample Condition: Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>		CHECKED BY: <u>[Signature]</u>	
REMARKS: <u>HAK, Zach, Bruce, Katie, Laron, Oscar,</u> <u>Emil Enger Plan</u>				

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 checked="" type="checkbox"/>	MODEL: PGM 7300	SERIAL NO: 590-902124
MODEL	<input type="checkbox"/>	MODEL: PGM 7300	SERIAL NO: 590-000504
NO.	<input 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: 07-01-15
METER READING ACCURACY:100.00	

ACCURACY : +/- 2%

COMPANY
RICE OPERATING

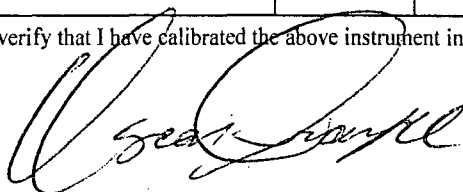
SITE	UNIT	SECTION	TOWN SHIP	RANGE
BD 4-36-2 Vent	H	36	225	37E

SAMPLE ID	PID	SAMPLE ID	PID
5pt Bottom Comp	4.7		
4 WALL Comp	3.1		
8pt Blended Comp.	2		

COPY

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

SIGNATURE:



DATE:

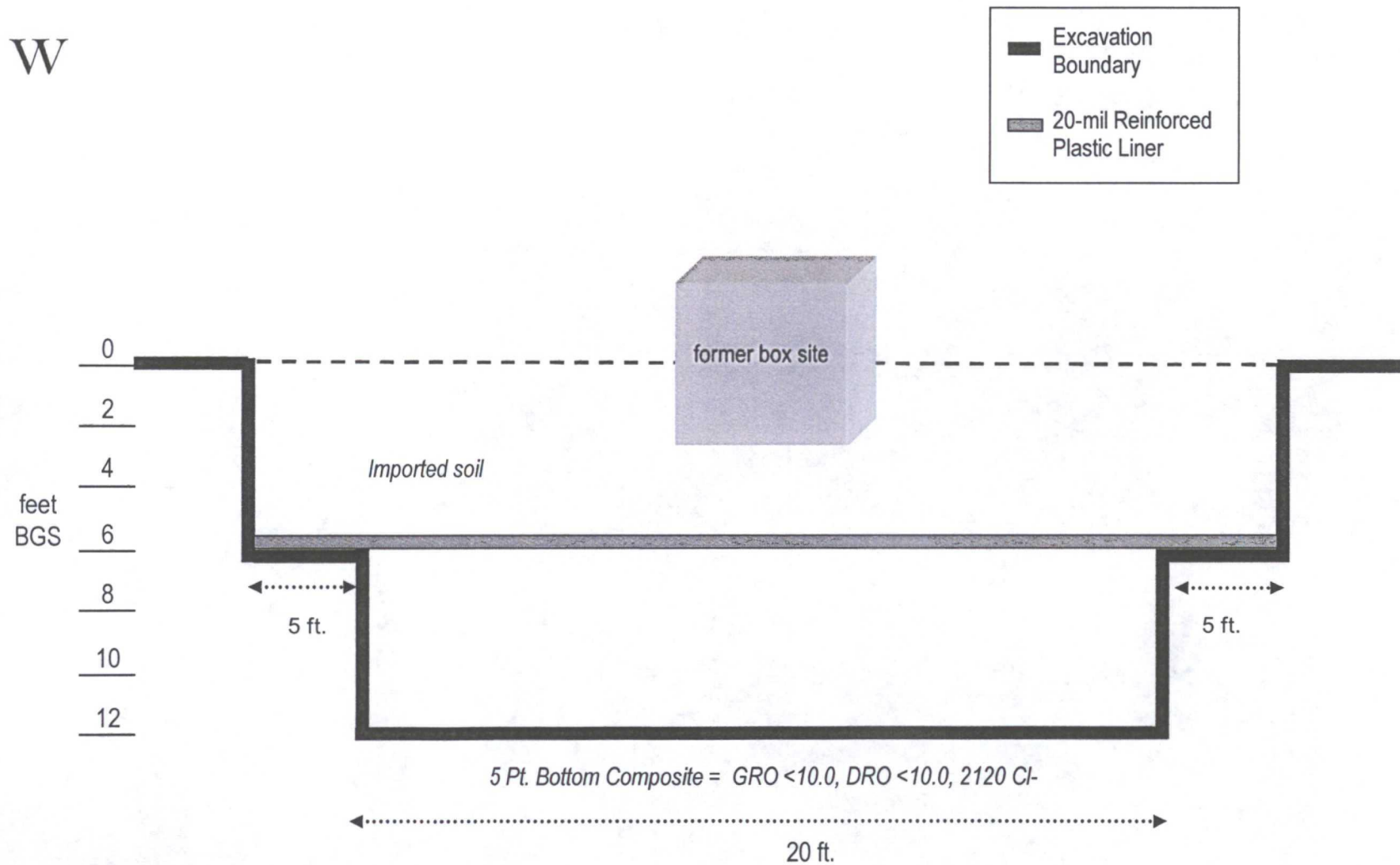
4-26-12

BD H-36-2 vent
Unit 'H', Sec. 36, T22S, R37E

Excavation Cross-Section

W

E



CHLORIDE CONCENTRATION CURVE

RICE Operating Company

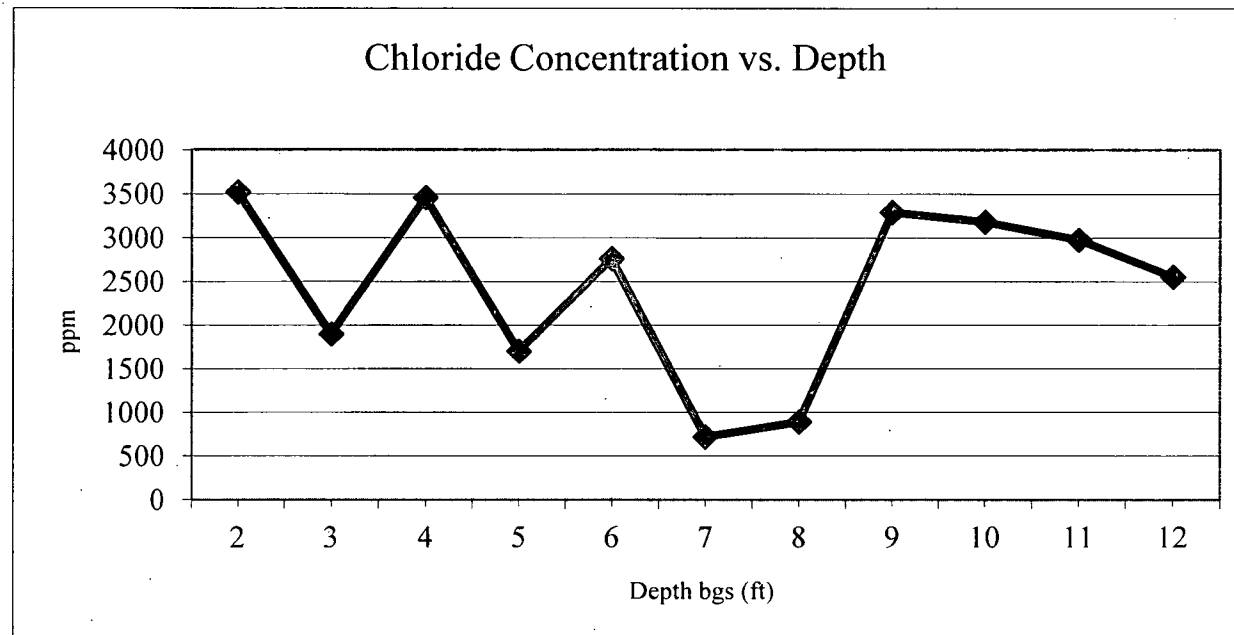
BD H-36-2 vent

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

Backhoe samples at junction (source)

Depth bgs (ft)	[Cl ⁻] ppm
2	3522
3	1898
4	3460
5	1702
6	2764
7	720
8	891
9	3293
10	3184
11	2979
12	2556

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-36-2 vent						
U/L H	Section 36	Township 22S	Range 37E	County Lea	Latitude 32° 20' 59.8" N	Longitude 103° 6' 33.2" W
Contact Name: Zack Conder						
Email: zconder@rice-ecs.com						
Site size: 4,000		square feet	Map detail of site attached <input type="checkbox"/>			
Additional information:						

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 checked="" 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: 4/30/2012					

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: 4 lbs. blue grama	Seeding date: 4/30/2012
Broadcast <input checked="" type="checkbox"/>			
Method: Hand Broadcast			
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: 4/30/2012
Signature: Not Available		

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