

1R - 426-306

REPORTS

DATE:

1-17-12

1R426-306

RECEIVED OCD

2012 MAY -1 P 1:49

BD O-29-2 vent
2011

DISCLOSURE

**RICE OPERATING COMPANY
JUNCTION BOX DISCLOSURE* REPORT**

BOX LOCATION

| SWD SYSTEM | JUNCTION | UNIT | SECTION | TOWNSHIP | RANGE | COUNTY | BOX DIMENSIONS - FEET | | |
|------------------------|-------------|------|---------|----------|-------|--------|-----------------------|----------|----------|
| | | | | | | | Length 5' | Width 5' | Depth 4' |
| Blinebry-Drinkard (BD) | O-29-2 vent | O | 29 | 22S | 38E | Lea | Eliminated | | |

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

Depth to Groundwater 124 feet NMOCD SITE ASSESSMENT RANKING SCORE: 0

Date Started 6/18/2011 Date Completed 8/4/2011 OCD Witness No

Soil Excavated 400.0 cubic yards Excavation Length 30 Width 30 Depth 12 feet

Soil Disposed 312 cubic yards Offsite Facility Sundance Services, Inc. Location Eunice, NM

FINAL ANALYTICAL RESULTS: Sample Date 7/15/2011, 8/1/2011 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.

CHLORIDE FIELD TESTS

| Sample Location | PID (field) ppm | GRO mg/kg | DRO mg/kg | Chloride mg/kg |
|------------------|-----------------|-----------|-----------|----------------|
| 4-WALL COMP. | 0.4 | <10.0 | <10.0 | 1,880 |
| BOTTOM COMP. | 0.8 | <10.0 | <10.0 | 3,520 |
| BLENDED BACKFILL | 0.0 | <10.0 | 146 | 1,840 |
| IMPORTED SOIL | 0.8 | | | <16.0 |

| LOCATION | DEPTH | mg/kg |
|---|-------|-------|
| 4-wall comp. | N/A | 4,001 |
| bottom comp. | 12' | 1,880 |
| blended backfill | N/A | 1,218 |
| background | 6" | 116 |
| vertical delineation trench at 10' east of source | 2' | 175 |
| | 4' | 848 |
| | 6' | 767 |
| | 8' | 997 |
| | 10' | 2,403 |
| | 12' | 3,680 |

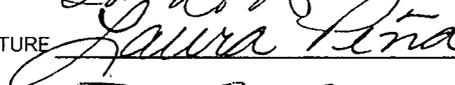
General Description of Remedial Action: This junction was eliminated during the pipeline replacement/upgrade program. After the former junction box was removed, an investigation was conducted using a backhoe to collect soil samples at regular intervals producing a 30x30x12-ft excavation. Chloride field tests performed on each sample yielded elevated concentrations that did not relent 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. The blended backfill was returned to the excavation to a depth of 4-ft BGS. On 7/27/2011, a 20-mil reinforced liner was installed at 4-ft BGS and the excavation was backfilled with the clean imported soil to ground surface and contoured to the surrounding area. The remaining excavated soil was properly disposed of at an NMOCD approved facility. On 11/10/2011, 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 12/22/2011.

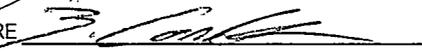
ADDITIONAL EVALUATION IS LOW PRIORITY

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

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

SITE SUPERVISOR Oscar Frayre SIGNATURE 

REPORT ASSEMBLED BY Laura Peña SIGNATURE  COMPANY RICE OPERATING COMPANY

PROJECT LEADER Zach Conder SIGNATURE  DATE 1-17-2012

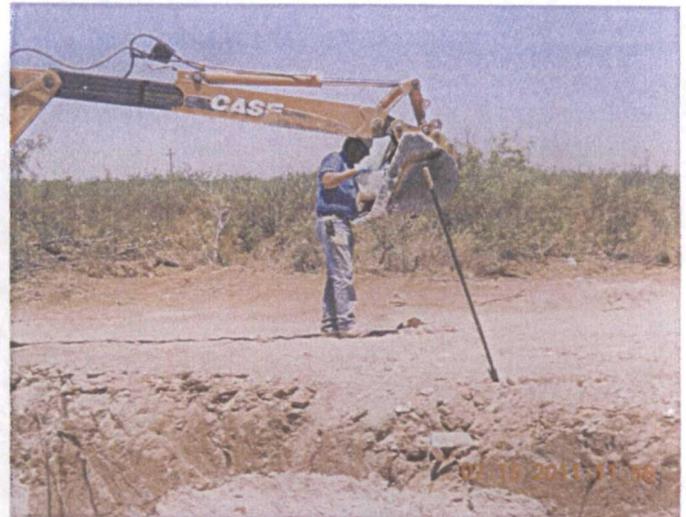
*This site is a "DISCLOSURE." It will be placed on a prioritized list of similar sites for further consideration.

BD O-29-2 vent

Unit O, Section 29, T22S, R38E



Excavating initial, facing south 6/18/2011



Collecting a soil sample, facing northwest 7/15/2011



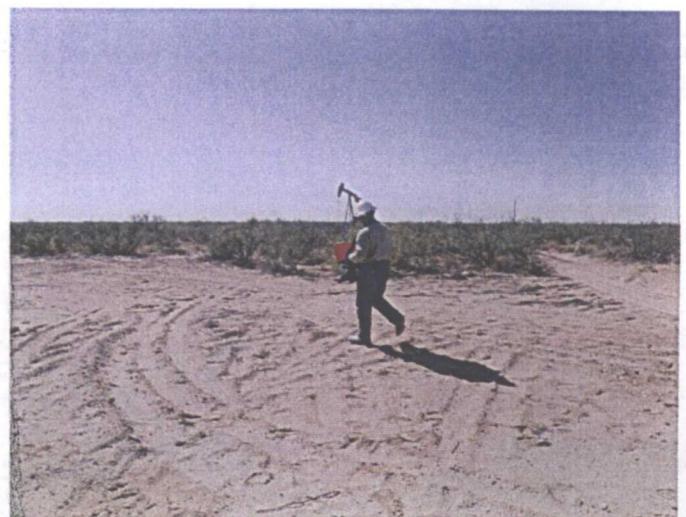
30 x 30-ft excavation being backfilled up to 4-ft BGS, facing east 7/25/2011



Backfilling above liner with imported soil, facing north 8/2/2011



Exporting soil, facing southwest 8/3/11



Seeding site, facing south 11/10/11



July 19, 2011

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

RE: BD O-29-2 VENT (22/38)

Enclosed are the results of analyses for samples received by the laboratory on 07/15/11 14:25.

Cardinal Laboratories is accredited through Texas NELAP for:

| | |
|--------------------|--|
| Method SW-846 8021 | Benzene, Toluene, Ethyl Benzene, and Total Xylenes |
| Method SW-846 8260 | Benzene, Toluene, Ethyl Benzene, and Total Xylenes |
| Method TX 1005 | Total Petroleum Hydrocarbons |

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

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 (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,

Celey D. Keene
Lab Director/Quality Manager

COPY

Analytical Results For:

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

| | | | |
|-------------------|------------------------|---------------------|---------------|
| Received: | 07/15/2011 | Sampling Date: | 07/15/2011 |
| Reported: | 07/19/2011 | Sampling Type: | Soil |
| Project Name: | BD O-29-2 VENT (22/38) | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | NOT GIVEN | | |

Sample ID: 5 PT BOTTOM COMP (H101472-01)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: HM | | | | | | |
|--------------------------------------|--------------|-----------------|------------|-----------------|-----|------------|---------------|--------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 3520 | 16.0 | 07/18/2011 | ND | 416 | 104 | 400 | 7.41 | | |
| TPH 8015M | | mg/kg | | Analyzed By: ab | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| GRO C6-C10 | <10.0 | 10.0 | 07/18/2011 | ND | 201 | 101 | 200 | 3.59 | | |
| DRO >C10-C28 | <10.0 | 10.0 | 07/18/2011 | ND | 170 | 85.1 | 200 | 0.0329 | | |
| <i>Surrogate: 1-Chlorooctane</i> | <i>105 %</i> | <i>70-130</i> | | | | | | | | |
| <i>Surrogate: 1-Chlorooctadecane</i> | <i>112 %</i> | <i>70-130</i> | | | | | | | | |

Sample ID: 4 WALL COMP (H101472-02)

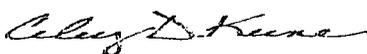
| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: HM | | | | | | |
|--------------------------------------|--------------|-----------------|------------|-----------------|-----|------------|---------------|--------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 1880 | 16.0 | 07/18/2011 | ND | 416 | 104 | 400 | 7.41 | | |
| TPH 8015M | | mg/kg | | Analyzed By: ab | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| GRO C6-C10 | <10.0 | 10.0 | 07/18/2011 | ND | 201 | 101 | 200 | 3.59 | | |
| DRO >C10-C28 | <10.0 | 10.0 | 07/18/2011 | ND | 170 | 85.1 | 200 | 0.0329 | | |
| <i>Surrogate: 1-Chlorooctane</i> | <i>106 %</i> | <i>70-130</i> | | | | | | | | |
| <i>Surrogate: 1-Chlorooctadecane</i> | <i>113 %</i> | <i>70-130</i> | | | | | | | | |

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*=Accredited Analyte

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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: | 07/15/2011 | Sampling Date: | 07/15/2011 |
| Reported: | 07/19/2011 | Sampling Type: | Soil |
| Project Name: | BD O-29-2 VENT (22/38) | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | NOT GIVEN | | |

Sample ID: BLENDED BACKFILL (H101472-03)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: HM | | | | | | |
|------------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|--------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 1840 | 16.0 | 07/18/2011 | ND | 416 | 104 | 400 | 7.41 | | |
| TPH 8015M | | mg/kg | | Analyzed By: ab | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| GRO C6-C10 | <10.0 | 10.0 | 07/18/2011 | ND | 201 | 101 | 200 | 3.59 | | |
| DRO >C10-C28 | 146 | 10.0 | 07/18/2011 | ND | 170 | 85.1 | 200 | 0.0329 | | |

Surrogate: 1-Chlorooctane 105 % 70-130

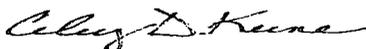
Surrogate: 1-Chlorooctadecane 113 % 70-130

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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 SM4500C-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

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>Price</u> | | BILL TO | | ANALYSIS REQUEST | | | | | | | | | | | | |
| Project Manager: <u>Helen Cavalli</u> | | P.O. #: | | | | | | | | | | | | | | |
| Address: <u>1322 W. Taylor</u> | | Company: | | | | | | | | | | | | | | |
| City: <u>Hobbs</u> | State: <u>NM</u> | Zip: <u>88240</u> | Attn: | | | | | | | | | | | | | |
| Phone #: | Fax #: | Address: | | | | | | | | | | | | | | |
| Project #: | Project Owner: | | City: | | | | | | | | | | | | | |
| Project Name: | | State: | Zip: | | | | | | | | | | | | | |
| Project Location: <u>BD 0-27-2 Vent 22.38</u> | | Phone #: | | | | | | | | | | | | | | |
| Sampler Name: <u>DEAN FRAYNE</u> | | 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 | | |
| <u>H1D1472</u> | | | | | | | | | | | | | | | | |
| | <u>- 1 Spt Bottom Comp</u> | <u>C</u> | | | | <u>X</u> | | | | <u>/</u> | | | <u>7-15-11</u> | <u>10:10</u> | <u>+</u> | <u>CL</u> |
| | <u>- 2 H Wall Comp</u> | <u>C</u> | | | | <u>X</u> | | | | <u>/</u> | | | <u>7-15-11</u> | <u>12:15</u> | <u>+</u> | <u>TPH 8015 m</u> |
| | <u>- 3 Blended Backfill</u> | <u>C</u> | | | | <u>X</u> | | | | <u>/</u> | | | <u>7-15-11</u> | <u>12:20</u> | <u>+</u> | <u>TPH 8015 m</u> |

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| | | | | |
|-------------------------------------|---|---------------------------------|--|----------------|
| Relinquished By: <u>[Signature]</u> | Date: <u>7-15-11</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>4:25</u> | Received By: <u>[Signature]</u> | Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No | Add'l Fax #: |
| Relinquished By: <u>[Signature]</u> | Date: | Received By: | REMARKS: | |
| | Time: | | <u>H - London @ price-ecs.com; B - Baker @ price-ecs.com;</u> | |
| | | | <u>Z - London @ price-ecs.com; L - Weinkammer @ price-ecs.com;</u> | |
| | | | <u>K - Jones @ price-ecs.com; O - Frayne @ price-ecs.com</u> | |
| Delivered By: (Circle One) | Sample Condition | CHECKED BY: | | |
| Sampler - UPS - Bus - Other: | Cool <input type="checkbox"/> Intact <input type="checkbox"/> | (Initials) | | |
| | Yes <input type="checkbox"/> No <input type="checkbox"/> | <u>[Signature]</u> | | |

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

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. | | MODEL: PGM 7300 | SERIAL NO: 590-000508 |
| MODEL | | MODEL: PGM 7300 | SERIAL NO: 590-000504 |
| NO. | | MODEL: PGM 7320 | SERIAL NO: 592-903318 |
| | x | MODEL: PGM 7600 | SERIAL NO: 110-023920 |

GAS COMPOSITION: ISOBUTYLENE 100PPM / AIR: BALANCE

| | |
|--------------------------------|--------------------------|
| LOT NO : 930360 | EXPIRATION DATE: 5/24/13 |
| METER READING ACCURACY: 100.00 | |

ACCURACY : +/- 2%

| |
|----------------|
| COMPANY |
| RICE |

| SYSTEM | JUNCTION | UNIT | SECTION | TOWN SHIP | RANGE |
|--------|-------------|------|---------|-----------|-------|
| BD | O-29-2 VENT | O | 29 | 22S | 38E |

| SAMPLE ID | PID | SAMPLE ID | PID |
|-----------------------|-----|-----------|-----|
| 5 Pt. Bottom Comp | 0.8 | | |
| 4 Wall Comp | 0.4 | | |
| Blended Backfill Comp | 0 | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
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| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

COPY

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

SIGNATURE:

DATE: 7/15/2011



August 03, 2011

Bruce Baker
Rice Operating Company
112 W. Taylor
Hobbs, NM 88240

RE: BD O-29-2 VENT

Enclosed are the results of analyses for samples received by the laboratory on 08/01/11 16:25.

Cardinal Laboratories is accredited through Texas NELAP for:

| | |
|--------------------|--|
| Method SW-846 8021 | Benzene, Toluene, Ethyl Benzene, and Total Xylenes |
| Method SW-846 8260 | Benzene, Toluene, Ethyl Benzene, and Total Xylenes |
| Method TX 1005 | Total Petroleum Hydrocarbons |

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

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 (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,

Celey D. Keene
Lab Director/Quality Manager

COPY

Analytical Results For:

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

| | | | |
|-------------------|----------------|---------------------|---------------|
| Received: | 08/01/2011 | Sampling Date: | 08/01/2011 |
| Reported: | 08/03/2011 | Sampling Type: | Soil |
| Project Name: | BD O-29-2 VENT | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | NOT GIVEN | | |

Sample ID: IMPORTED SOIL (H101593-01)

Chloride, SM4500CI-B

mg/kg

Analyzed By: HM

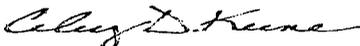
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|----------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Chloride | <16.0 | 16.0 | 08/02/2011 | ND | 432 | 108 | 400 | 0.00 | |

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

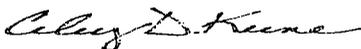
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on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

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Cardinal Laboratories

*=Accredited Analyte

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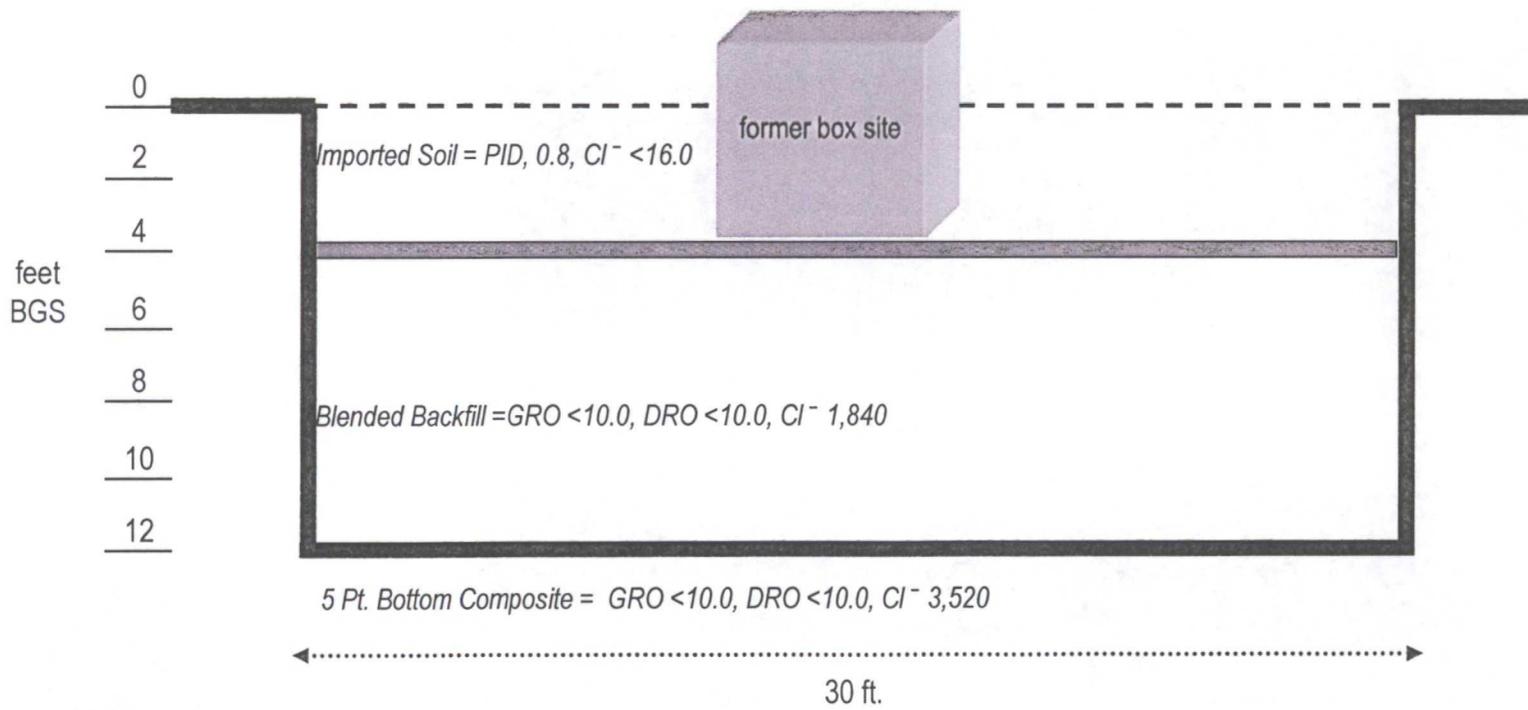
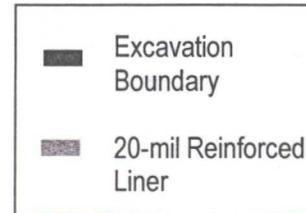
Celey D. Keene, Lab Director/Quality Manager

BD O-29-2 vent
Unit 'O', Sec. 29, T22S, R38E

Excavation Cross-Section

N

S

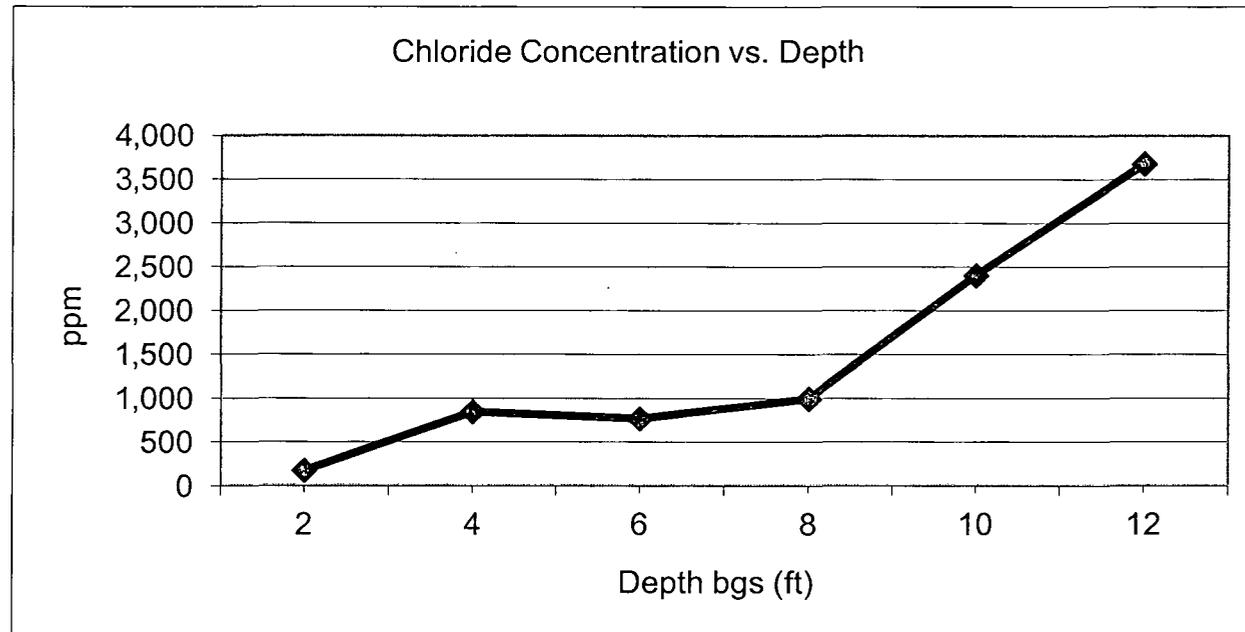


BD O-29-2 vent

Unit 'O', Sec. 29, T22S, R38E

Backhoe samples at 10 ft East of the junction (source)

| Depth bgs (ft) | [Cl] ppm |
|----------------|----------|
| 2 | 175 |
| 4 | 848 |
| 6 | 767 |
| 8 | 997 |
| 10 | 2,403 |
| 12 | 3,680 |



Groundwater = 124 ft



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

VEGETATION FORM

I. General Information

| | | | | | | |
|---|---------------|-----------------|--------------|--|----------------------------|------------------------------|
| Site name: BD | | | | | | |
| O-29-2 VENT | | | | | | |
| U/L 0 | Section 29 | Township 22S | Range 38E | County Lea | Latitude N-32*21'29.437 | Longitude W-103*4'45.644" |
| Contact Name: Bruce Baker | | | | | | |
| Email: bbaker@rice-ecs.com | | | | | | |
| Site size: 13,530 | | 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 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: | | | | | |

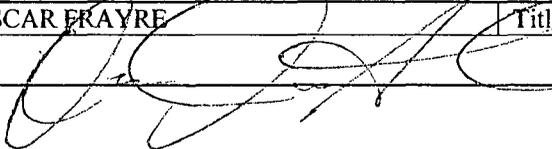
3. Bioremediation

| | | |
|-------------------------------------|------------------------------|--------------------------------|
| Fertilizer <input type="checkbox"/> | Hay <input type="checkbox"/> | Other <input type="checkbox"/> |
| Type: | Describe: BioNance | |
| 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: Pecos District Mix | Seeding date: 11/10/2011 |
| Broadcast <input checked="" type="checkbox"/> 13.5 LBS OF BOYD JOHNSTON MIX | | | |
| Method: Portable seeder | | | |
| Soil conditions during seeding: Dry <input checked="" type="checkbox"/> Damp <input type="checkbox"/> Wet <input type="checkbox"/> | | | |
| Photos attached <input checked="" 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 PRAYRE | Title: Environmental Tech. | Date: 11/10/11 |
| Signature:  | | |

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