

1R - 425-86

WORKPLANS

Date:

4-16-12

L. Peter Galusky, Jr., Ph.D., P.G.
Texerra LLC

RECEIVED OCD

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20055 Laredo Lane Monument, Colorado 80132
Tel: 719-339-6791 E-mail: lpg@texerra.com

April 16th, 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: Corrective Action Plan

Rice Operating Company – Vacuum SWD System
Vacuum N-28-2 vent (Formerly Vacuum K-28-2 vent)
NMOCD Case Number: 1R425-86. UL/N, Sec. 28, T17S, R35E

Sent via Certified U.S. Mail w/ Return Receipt No. 7011 0110 0001 5863 4875

Mr. Hansen:

RICE Operating Company (ROC) has retained Texerra to address potential environmental concerns at the above-referenced site in the abandoned Vacuum Salt Water Disposal (SWD) system. This report summarizes work to date completed according to the Investigation and Characterization Plan of May 3rd, 2011, and OCD approved on June 9th, 2011, for this site and presents a Corrective Action Plan (CAP) to ensure the protection of groundwater resources.

The location of the Vacuum N-28-2 vent site is given in Figure 1. A summary of soil boring analyses from samples taken to date is given in Figures 2a&b. Copies of laboratory analyses are given in the Appendix.

The depth to groundwater is estimated to be approximately 68 ft bgs. High levels of residual soil chlorides were found in all of the ten soil borings taken. Field PID readings indicated residual soil petroleum hydrocarbons in several locations, but these tended to diminish with depth.

It should be noted that site is located within the immediate vicinity of oil field facilities having a long history with apparent surface spillage (Figures 3 to 8) and that the elevated levels of residual soil chlorides are likely due to activities not directly caused by ROC operations. Nevertheless, in order to protect groundwater quality from the potential migration of residual soil chlorides ROC proposes the following actions to serve as a Corrective Action Plan (CAP) for this project. *These measures will provide protection beyond the impacts directly caused by past operation of the Vacuum N-28-2 vent.*

Vacuum N-28-2 vent

ROC will:

Install a 20-mil Reinforced Sub-surface Infiltration Barrier and Restore the Ground Surface

- Excavate the area encompassed by the soil borings (55 by 61 ft as shown in Figures 2a&b) to a depth of approximately 3 ft bgs (limited by the presence of hard rock).
- Install a 20-mil, reinforced poly liner over a 6 inch layer of clean blow sand and pad this with another 6 inch layer of the same.
- The excavation will then be backfilled with soil that chlorides measure less than 500 mg/kg and PID hydrocarbons measure less than 100 ppm. Excavated soil will be evaluated for use as backfill, and any soil requiring disposal will be properly disposed of at a NMOCD approved facility.
- Restore the ground surface to natural contours and seed with a blend of native vegetation mix.

Report the Course and Results of Work to NMOCD

- Provide a brief report to NMOCD with photographs summarizing the course of these corrective actions and a request for remediation termination. Please note that we do not anticipate the need for, nor propose to, install any monitor wells as our proposed liner system will provide effective protection of groundwater from residual chlorides at this former ROC junction box. It is likely that any chlorides in groundwater above natural baseline levels are caused by historical sources up-gradient of and surrounding this former junction box. Figures 3 through 8 historical aerial photos show historic, non-ROC facilities surrounding the location of this former box. This is particularly clear in the 1966 and 1949 historical aerial photos.

ROC is the service provider (agent) for the Vacuum 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.

We appreciate your consideration of this ICP report. Please do not hesitate to contact either Hack Conder of Rice Operating Company or myself if you have any questions or need additional information.

Sincerely,



L. Peter Galusky, Jr. Ph.D.

Copy: Rice Operating Company

Vacuum N-28-2 vent

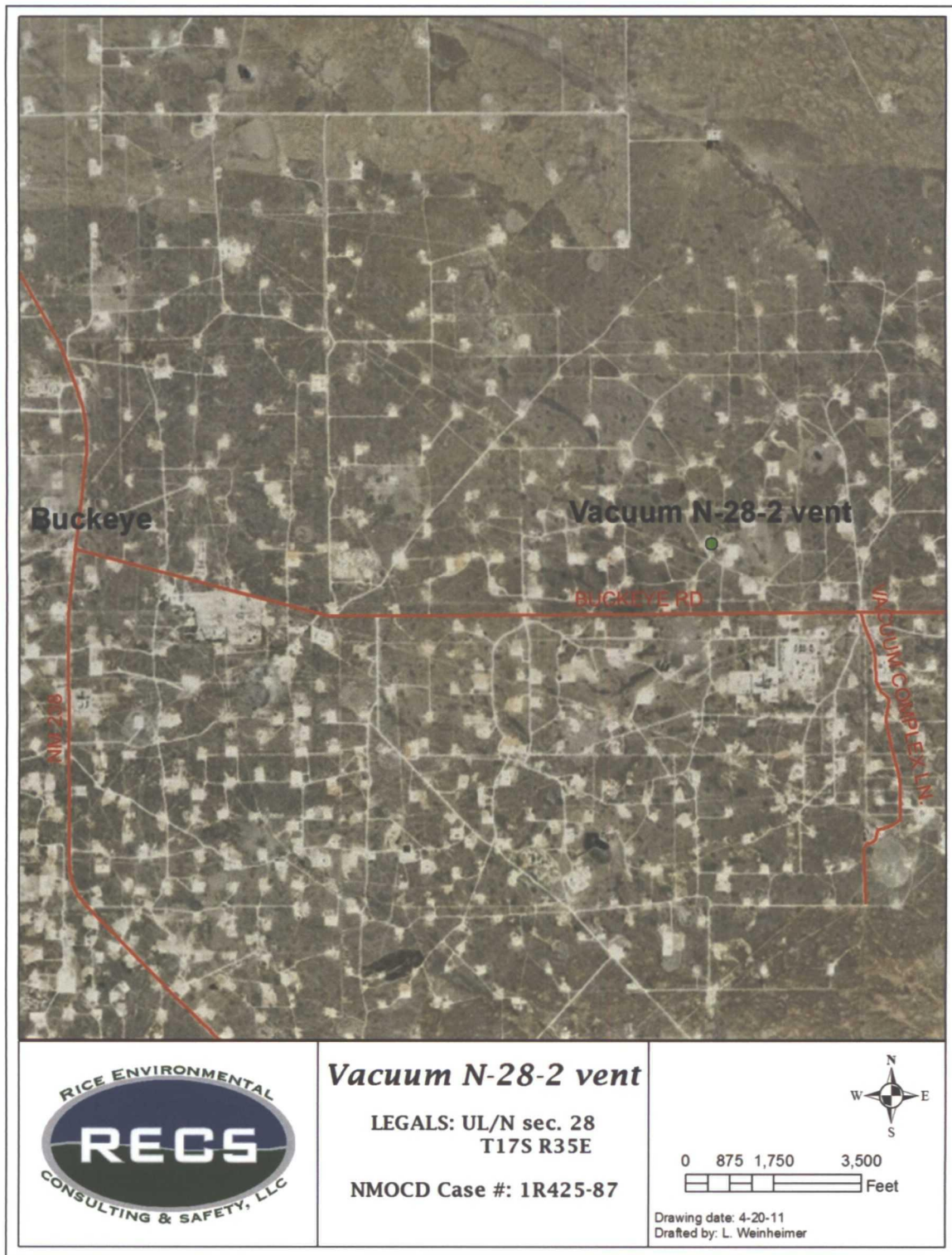


Figure 1 – Vacuum N-28-2 vent location.

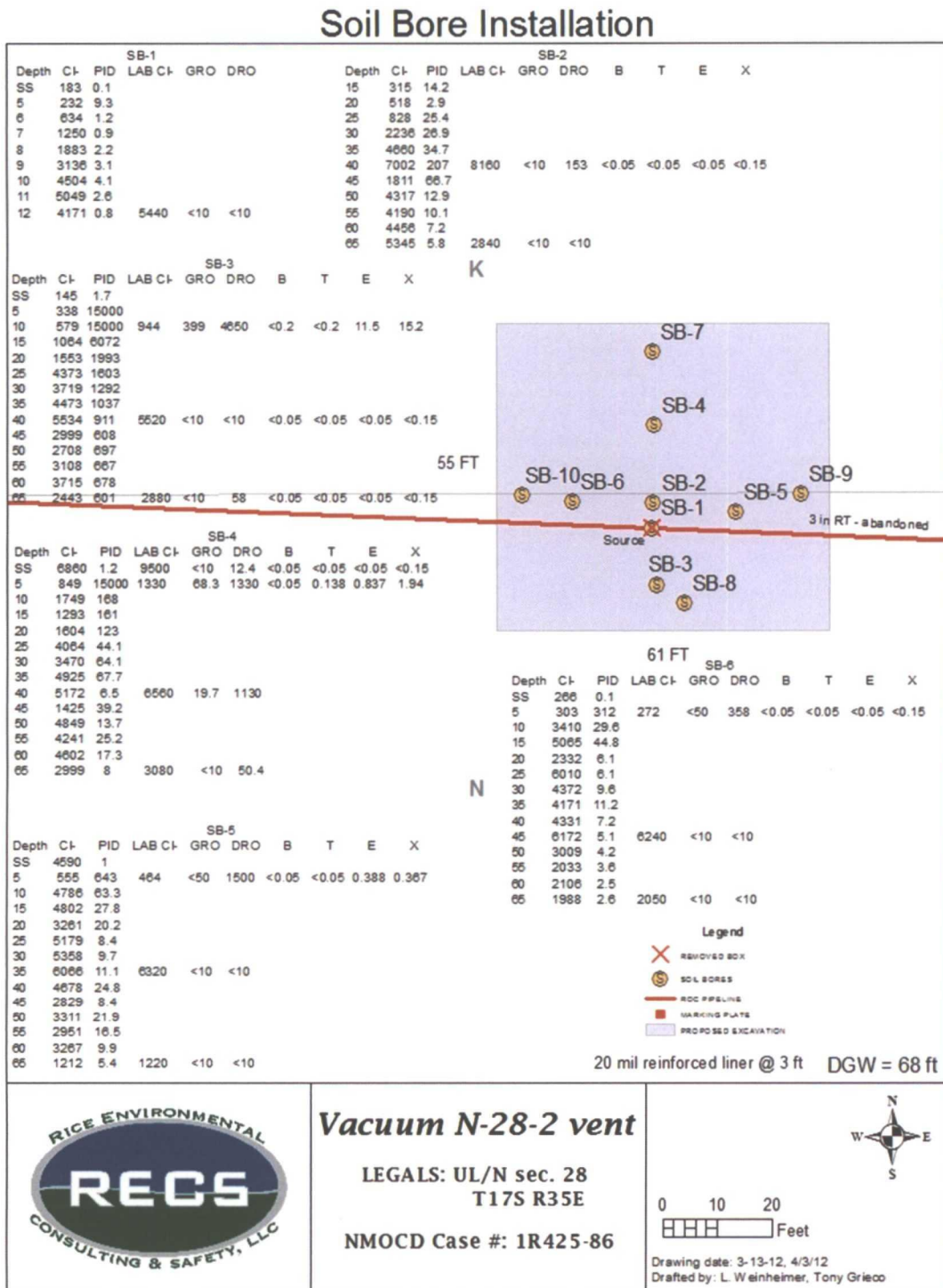


Figure 2a – Summary of soil chloride and petroleum hydrocarbon concentrations from samples taken in June 2011.

Soil Bore Installation

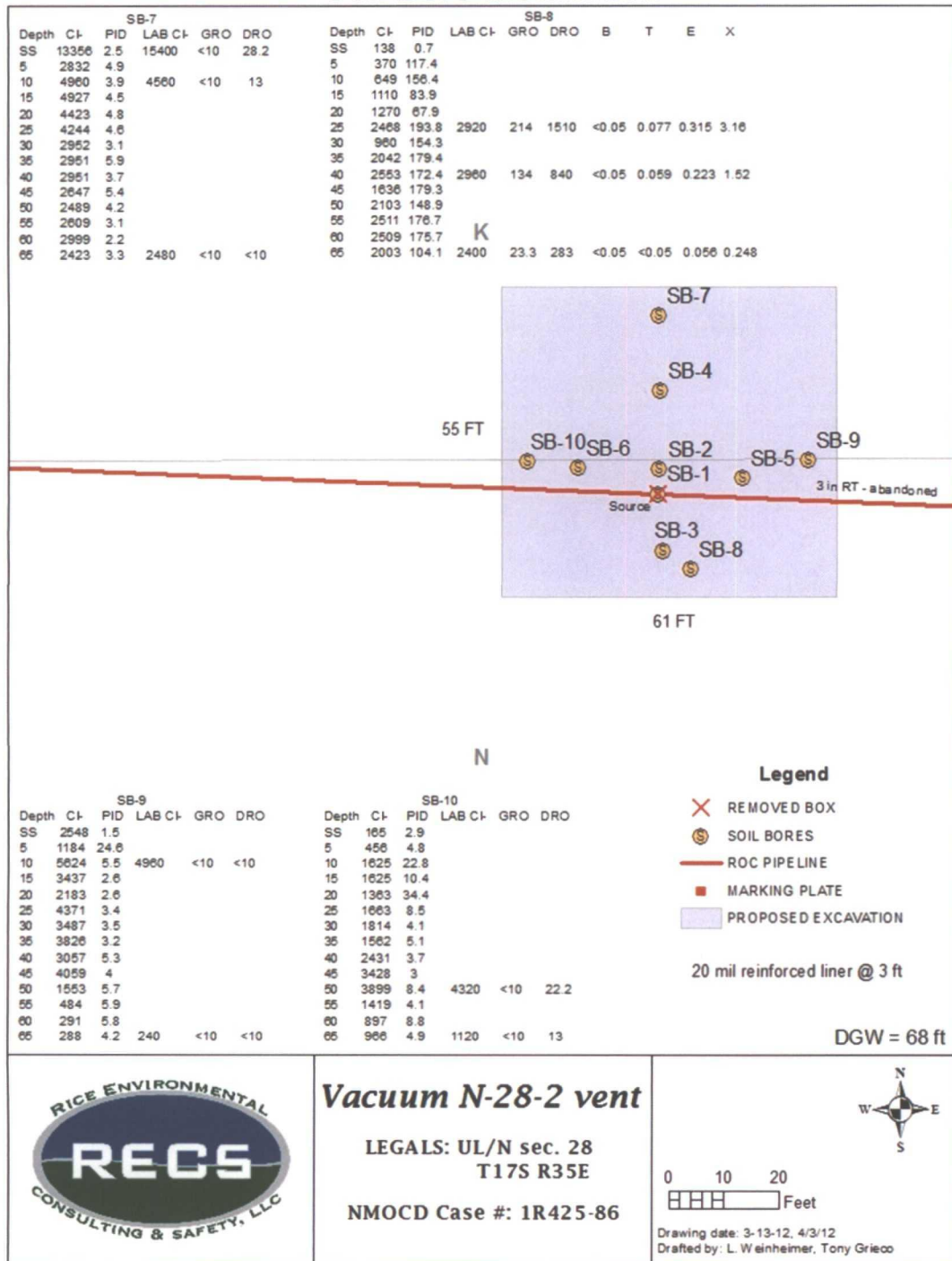


Figure 2b – Summary of soil chloride and petroleum hydrocarbon concentrations from samples taken in March 2012.

2011

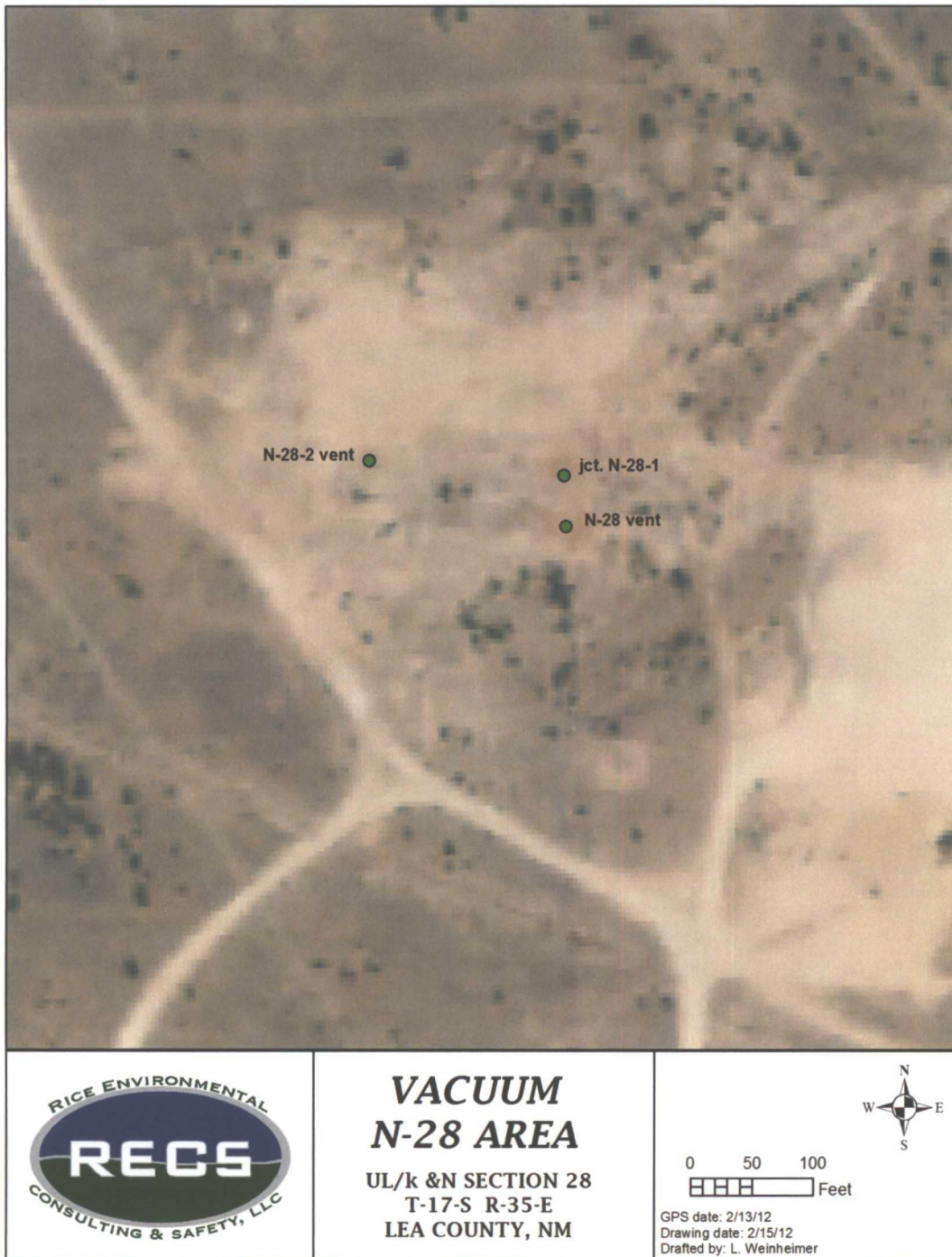


Figure 3 – Aerial of Vacuum N-28-2 vent location in 2011.

2009

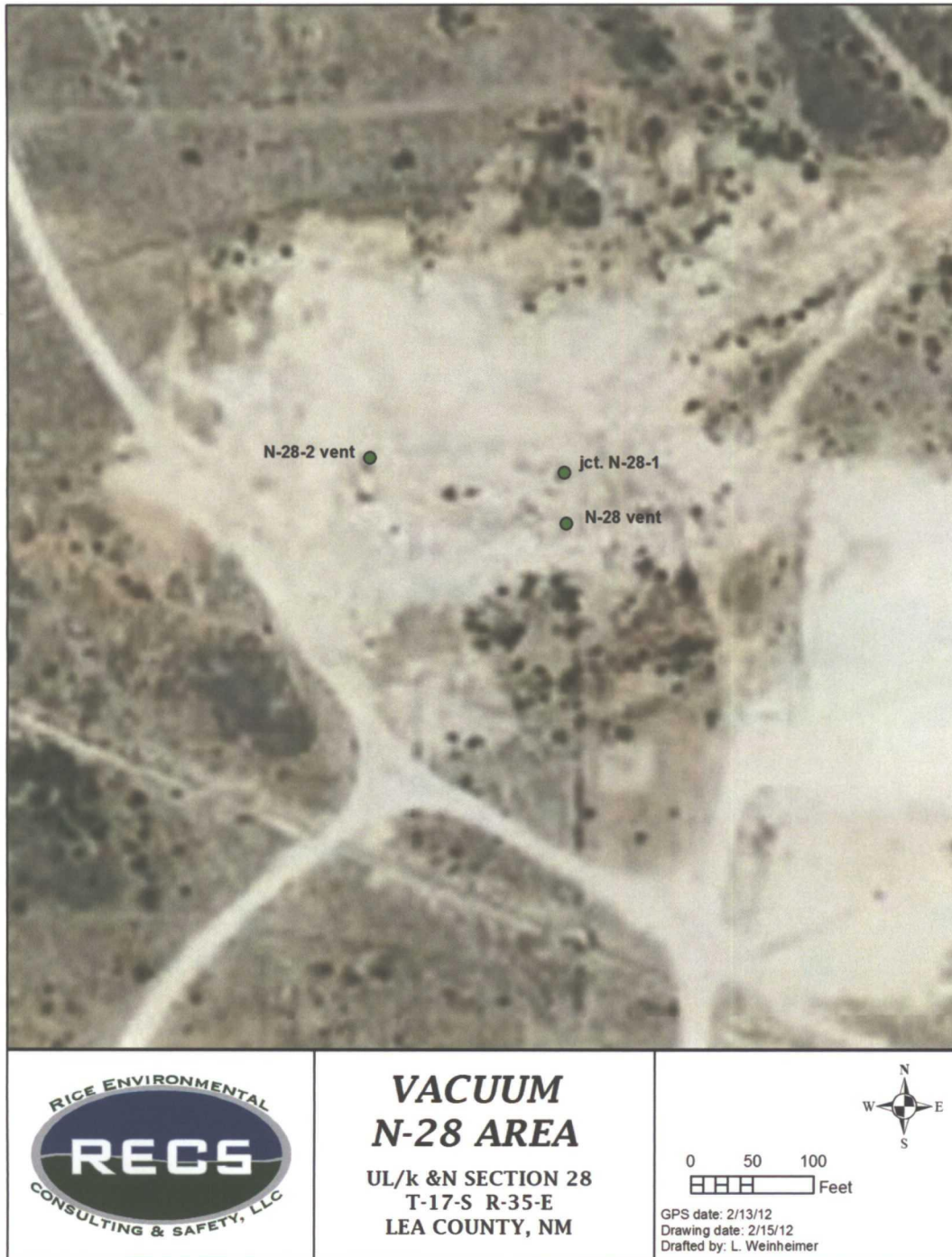


Figure 4 – Aerial of Vacuum N-28-2 vent location in 2009.

2005



Figure 5 – Aerial of Vacuum N-28-2 vent location in 2005.

1978

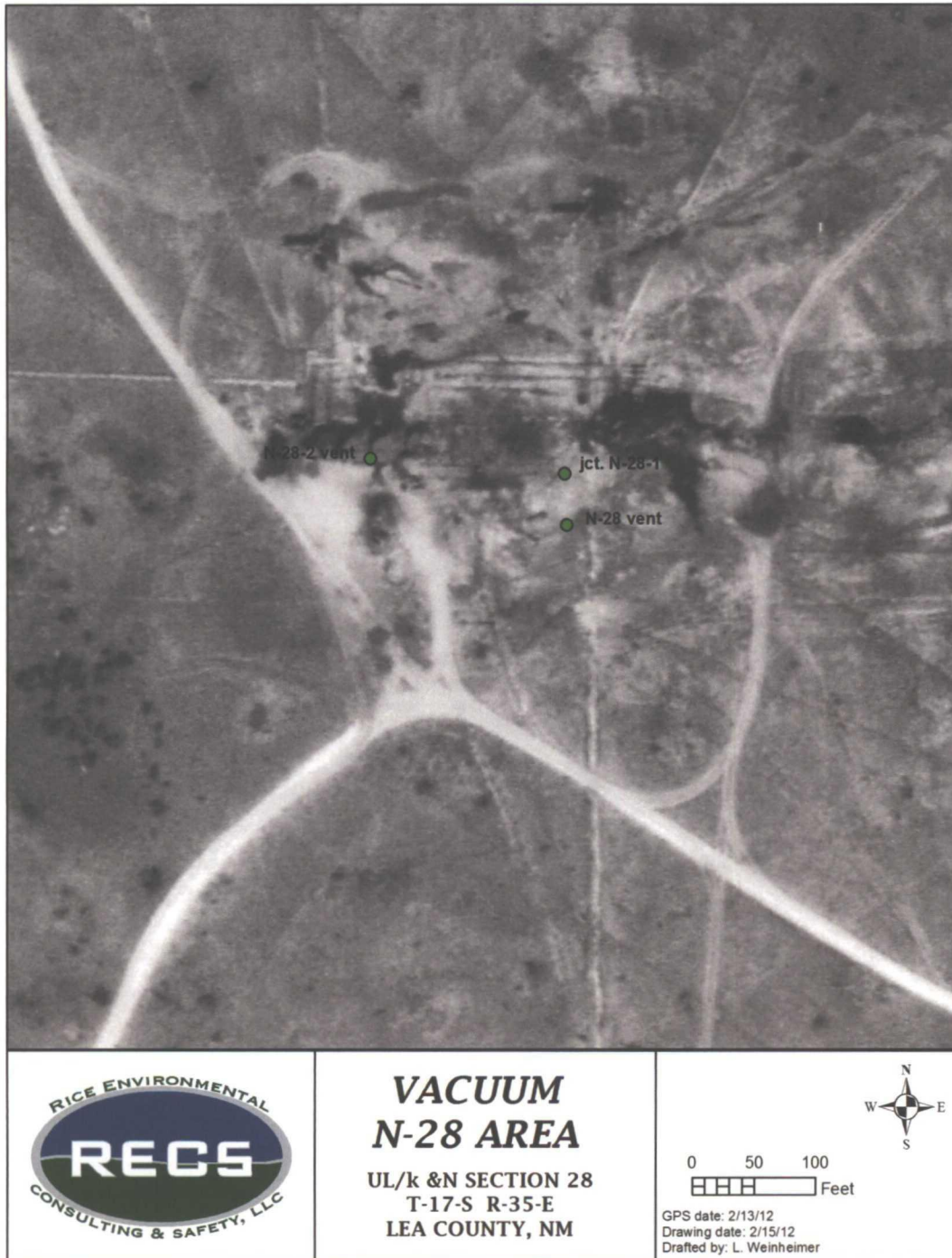


Figure 6 – Aerial of Vacuum N-28-2 vent location in 1978.

1966

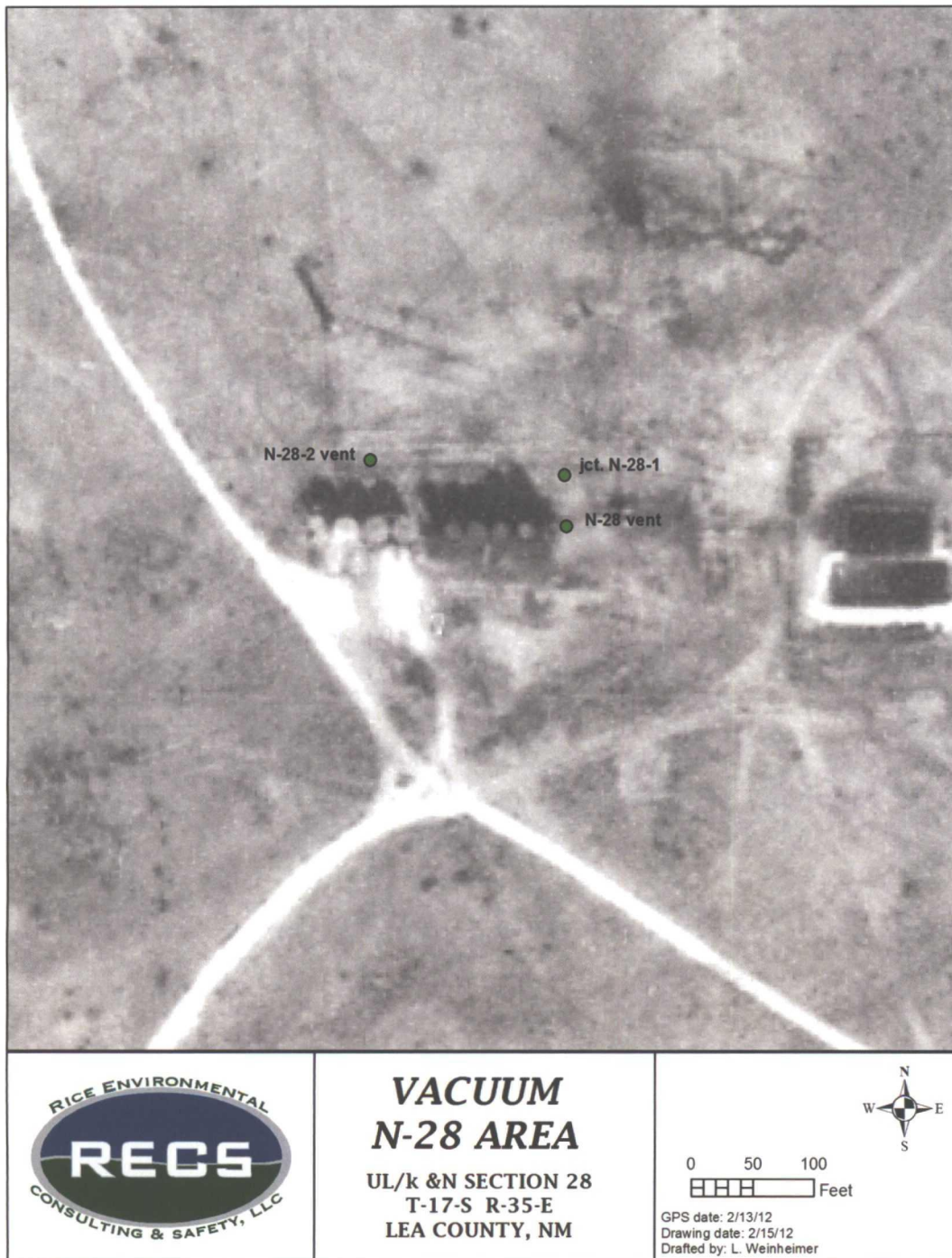


Figure 7 – Aerial of Vacuum N-28-2 vent location in 1966.

1949

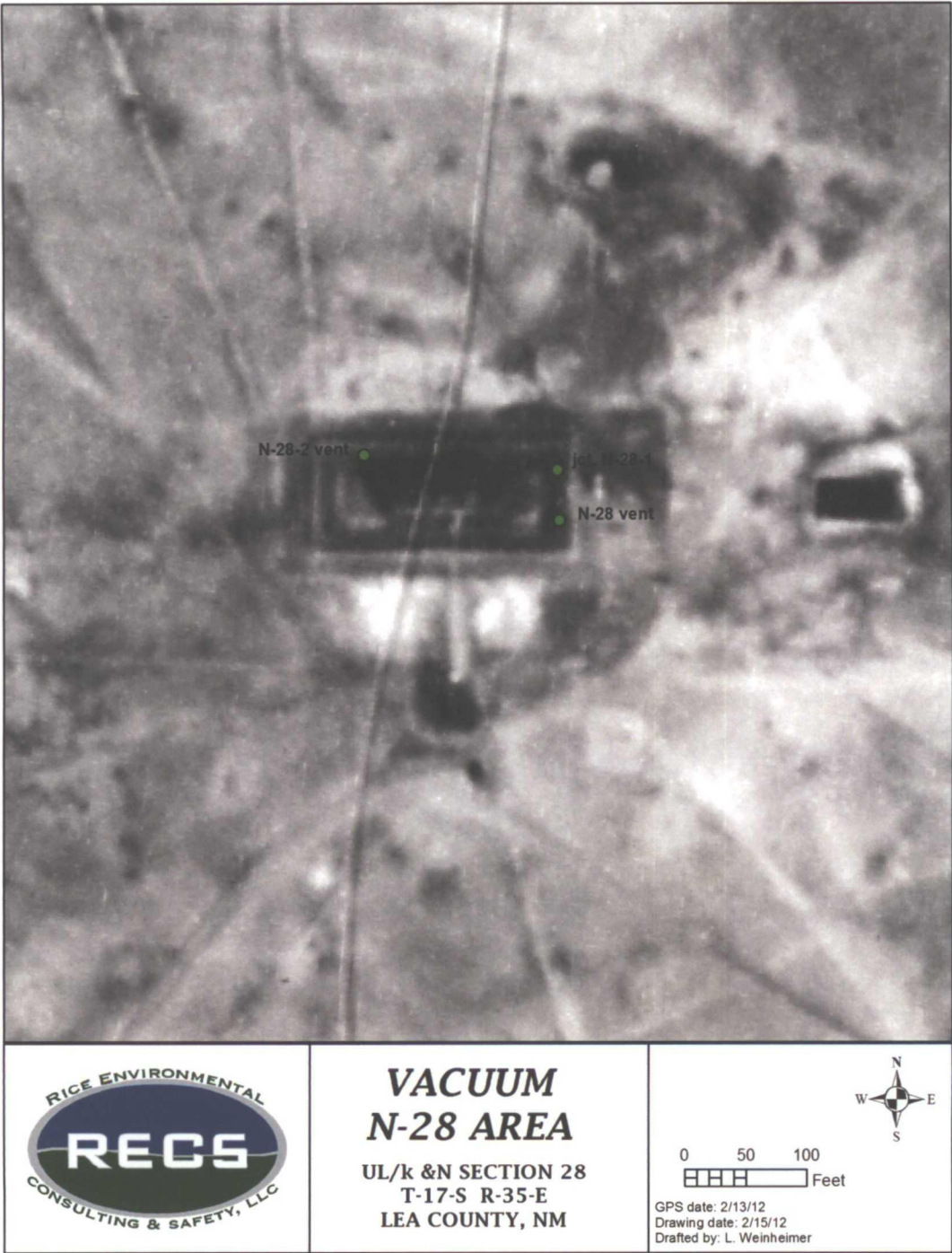


Figure 8 – Aerial of Vacuum N-28-2 vent location in 1949.

Vacuum N-28-2 Vent

Appendix – Soil Analysis Laboratory Reports



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

June 20, 2011

Hack Conder

Rice Operating Company

112 W. Taylor

Hobbs, NM 88240

RE: VACUUM N-28-2 VENT

Enclosed are the results of analyses for samples received by the laboratory on 06/09/11 10:10.

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,

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

Vacuum N-28-2 Vent



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

Analytical Results For:

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

| | | | |
|-------------------|--------------------|---------------------|---------------|
| Received: | 06/09/2011 | Sampling Date: | 06/08/2011 |
| Reported: | 06/20/2011 | Sampling Type: | Soil |
| Project Name: | VACUUM N-28-2 VENT | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | NOT GIVEN | | |

Sample ID: SB 2 @ 40' (H101194-01)

| BTX 8260B | | mg/kg | | Analyzed By: CMS | | | | | |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 06/13/2011 | ND | 2.21 | 111 | 2.00 | 7.93 | |
| Toluene* | <0.050 | 0.050 | 06/13/2011 | ND | 2.24 | 112 | 2.00 | 7.82 | |
| Ethylbenzene* | <0.050 | 0.050 | 06/13/2011 | ND | 2.32 | 116 | 2.00 | 8.13 | |
| Total Xylenes* | <0.150 | 0.150 | 06/13/2011 | ND | 6.54 | 109 | 6.00 | 8.53 | |

Surrogate: Dibromofluoromethane 100 % 80-120

Surrogate: Toluene-d8 104 % 80-120

Surrogate: 4-Bromofluorobenzene 114 % 80-120

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: HM | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 8160 | 16.0 | 06/11/2011 | ND | 432 | 108 | 400 | 3.77 | |

| 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 | 06/14/2011 | ND | 216 | 108 | 200 | 1.49 | |
| DRO >C10-C28 | 153 | 10.0 | 06/14/2011 | ND | 203 | 102 | 200 | 7.13 | |

Surrogate: 1-Chlorooctane 123 % 70-130

Surrogate: 1-Chlorooctadecane 139 % 70-130

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

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Vacuum N-28-2 Vent



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

Analytical Results For:

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

Received: 06/09/2011
Reported: 06/20/2011
Project Name: VACUUM N-28-2 VENT
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 06/08/2011
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SB 2 @ 65' (H101194-02)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: HM | | | | | |
|-------------------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 2840 | 16.0 | 06/11/2011 | ND | 432 | 108 | 400 | 3.77 | |
| 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 | 06/14/2011 | ND | 216 | 108 | 200 | 1.49 | |
| DRO >C10-C28 | <10.0 | 10.0 | 06/14/2011 | ND | 203 | 102 | 200 | 7.13 | |
| | | | | | | | | | |
| Surrogate: 1-Chlorooctane | 111 % | 70-130 | | | | | | | |
| Surrogate: 1-Chlorooctadecane | 131 % | 70-130 | | | | | | | |

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Celey D. Keene, Lab Director/Quality Manager

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Vacuum N-28-2 Vent



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

Analytical Results For:

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

| | | | |
|-------------------|--------------------|---------------------|---------------|
| Received: | 06/09/2011 | Sampling Date: | 06/08/2011 |
| Reported: | 06/20/2011 | Sampling Type: | Soil |
| Project Name: | VACUUM N-28-2 VENT | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | NOT GIVEN | | |

Sample ID: SB 3 @ 10' (H101194-03)

| BTEX 8260B | | mg/kg | | Analyzed By: CMS | | | | | |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.200 | 0.200 | 06/13/2011 | ND | 2.21 | 111 | 2.00 | 7.93 | |
| Toluene* | <0.200 | 0.200 | 06/13/2011 | ND | 2.24 | 112 | 2.00 | 7.82 | |
| Ethylbenzene* | 11.5 | 0.200 | 06/13/2011 | ND | 2.32 | 116 | 2.00 | 8.13 | |
| Total Xylenes* | 15.2 | 0.600 | 06/13/2011 | ND | 6.54 | 109 | 6.00 | 8.53 | |

Surrogate: Dibromofluoromethane 96.5 % 80-120
Surrogate: Toluene-d8 101 % 80-120
Surrogate: 4-Bromofluorobenzene 111 % 80-120

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: HM | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 944 | 16.0 | 06/11/2011 | ND | 432 | 108 | 400 | 3.77 | |

| TPH 8015M | | mg/kg | | Analyzed By: AB | | | | | |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | 399 | 50.0 | 06/14/2011 | ND | 216 | 108 | 200 | 1.49 | |
| DRO >C10-C28 | 4650 | 50.0 | 06/14/2011 | ND | 203 | 102 | 200 | 7.13 | |

Surrogate: 1-Chlorooctane 123 % 70-130
Surrogate: 1-Chlorooctadecane 130 % 70-130

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Ceiley D. Keene

Ceiley D. Keene, Lab Director/Quality Manager

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Vacuum N-28-2 Vent



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Analytical Results For:

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

Received: 06/09/2011
Reported: 06/20/2011
Project Name: VACUUM N-28-2 VENT
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 06/08/2011
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SB 3 @ 40' (H101194-04)

| BTX 82608 | | mg/kg | | Analyzed By: CMS | | | | | |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 06/13/2011 | ND | 2.21 | 111 | 2.00 | 7.93 | |
| Toluene* | <0.050 | 0.050 | 06/13/2011 | ND | 2.24 | 112 | 2.00 | 7.82 | |
| Ethylbenzene* | <0.050 | 0.050 | 06/13/2011 | ND | 2.32 | 116 | 2.00 | 8.13 | |
| Total Xylenes* | <0.150 | 0.150 | 06/13/2011 | ND | 6.54 | 109 | 6.00 | 8.53 | |

Surrogate: Dibromofluoromethane 107 % 80-120
Surrogate: Toluene-d8 108 % 80-120
Surrogate: 4-Bromofluorobenzene 117 % 80-120

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: HM | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 5520 | 16.0 | 06/11/2011 | ND | 432 | 108 | 400 | 3.77 | |

| 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 | 06/14/2011 | ND | 216 | 108 | 200 | 1.49 | |
| DRO >C10-C28 | <10.0 | 10.0 | 06/14/2011 | ND | 203 | 102 | 200 | 7.13 | |

Surrogate: 1-Chlorooctane 123 % 70-130
Surrogate: 1-Chlorooctadecane 143 % 70-130

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Vacuum N-28-2 Vent



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Analytical Results For:

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

Received: 06/09/2011
Reported: 06/20/2011
Project Name: VACUUM N-28-2 VENT
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 06/08/2011
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SB 3 @ 65' (H101194-05)

| BTX 82608 | | mg/kg | | Analyzed By: CMS | | | | | |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 06/13/2011 | ND | 2.21 | 111 | 2.00 | 7.93 | |
| Toluene* | <0.050 | 0.050 | 06/13/2011 | ND | 2.24 | 112 | 2.00 | 7.82 | |
| Ethylbenzene* | <0.050 | 0.050 | 06/13/2011 | ND | 2.32 | 116 | 2.00 | 8.13 | |
| Total Xylenes* | <0.150 | 0.150 | 06/13/2011 | ND | 6.54 | 109 | 6.00 | 8.53 | |

Surrogate: Dibromofluoromethane 94.1 % 80-120
Surrogate: Toluene-d8 95.1 % 80-120
Surrogate: 4-Bromofluorobenzene 104 % 80-120

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: HM | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 2880 | 16.0 | 06/11/2011 | ND | 432 | 108 | 400 | 3.77 | |

| 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 | 06/14/2011 | ND | 216 | 108 | 200 | 1.49 | |
| DRO >C10-C28 | 58.0 | 10.0 | 06/14/2011 | ND | 203 | 102 | 200 | 7.13 | |

Surrogate: 1-Chlorooctane 111 % 70-130
Surrogate: 1-Chlorooctadecane 127 % 70-130

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Ceiley D. Keene

Ceiley D. Keene, Lab Director/Quality Manager

Vacuum N-28-2 Vent



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

Analytical Results For:

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

Received: 06/09/2011
Reported: 06/20/2011
Project Name: VACUUM N-28-2 VENT
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 06/08/2011
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SB 4 @ SURFACE SAMPLE (H101194-06)

| BTEX 8260B | | mg/kg | | Analyzed By: CMS | | | | | |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 06/14/2011 | ND | 2.21 | 111 | 2.00 | 7.93 | |
| Toluene* | <0.050 | 0.050 | 06/14/2011 | ND | 2.24 | 112 | 2.00 | 7.82 | |
| Ethylbenzene* | <0.050 | 0.050 | 06/14/2011 | ND | 2.32 | 116 | 2.00 | 8.13 | |
| Total Xylenes* | <0.150 | 0.150 | 06/14/2011 | ND | 6.54 | 109 | 6.00 | 8.53 | |

Surrogate: Dibromofluoromethane 97.4 % 80-120
Surrogate: Toluene-d8 102 % 80-120
Surrogate: 4-Bromofluorobenzene 110 % 80-120

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: HM | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 9500 | 16.0 | 06/11/2011 | ND | 432 | 108 | 400 | 3.77 | |

| 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 | 06/13/2011 | ND | 224 | 112 | 200 | 12.3 | |
| DRO >C10-C28 | 12.4 | 10.0 | 06/13/2011 | ND | 206 | 103 | 200 | 13.9 | |

Surrogate: 1-Chlorooctane 104 % 70-130
Surrogate: 1-Chlorooctadecane 110 % 70-130

Cardinal Laboratories

*=Accredited Analyte

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Ceiley D. Keene

Ceiley D. Keene, Lab Director/Quality Manager

Vacuum N-28-2 Vent



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

Analytical Results For:

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

Received: 06/09/2011
Reported: 06/20/2011
Project Name: VACUUM N-28-2 VENT
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 06/08/2011
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SB 4 @ 5' (H101194-07)

| BTX 8021B | | | mg/kg | | | | | | | |
|----------------|--------|-----------------|------------------|--------------|------|------------|---------------|------|-----------|--|
| | | | Analyzed By: CMS | | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 06/20/2011 | ND | 1.89 | 94.5 | 2.00 | 3.65 | | |
| Toluene* | 0.138 | 0.050 | 06/20/2011 | ND | 2.00 | 100 | 2.00 | 4.10 | | |
| Ethylbenzene* | 0.837 | 0.050 | 06/20/2011 | ND | 2.02 | 101 | 2.00 | 3.90 | | |
| Total Xylenes* | 1.94 | 0.150 | 06/20/2011 | ND | 6.00 | 100 | 6.00 | 4.06 | | |

Surrogate: 4-Bromofluorobenzene (PIL) 106 % 70-130

| Chloride, SM4500Cl-B | | | mg/kg | | | | | | | |
|----------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|--|
| | | | Analyzed By: HM | | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 1330 | 16.0 | 06/11/2011 | ND | 432 | 108 | 400 | 3.77 | | |

| TPH 8015M | | | mg/kg | | | | | | | |
|--------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|--|
| | | | Analyzed By: AB | | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| GRO C6-C10 | 68.3 | 50.0 | 06/13/2011 | ND | 142 | 70.9 | 200 | 1.47 | | |
| DRO >C10-C28 | 1330 | 50.0 | 06/13/2011 | ND | 148 | 73.9 | 200 | 3.69 | | |

Surrogate: 1-Chlorooctane 87.0 % 70-130

Surrogate: 1-Chlorooctadecane 78.5 % 70-130

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Vacuum N-28-2 Vent



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

Analytical Results For:

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

Received: 06/09/2011
Reported: 06/20/2011
Project Name: VACUUM N-28-2 VENT
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 06/08/2011
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SB 4 @ 65' (H101194-08)

| Chloride, SM4500Cl-B | | | mg/kg Analyzed By: HM | | | | | | |
|-------------------------------|--------|-----------------|-----------------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 3080 | 16.0 | 06/11/2011 | ND | 432 | 108 | 400 | 3.77 | |
| 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 | 06/13/2011 | ND | 142 | 70.9 | 200 | 1.47 | |
| DRO >C10-C28 | 50.4 | 10.0 | 06/13/2011 | ND | 148 | 73.9 | 200 | 3.69 | |
| | | | | | | | | | |
| Surrogate: 1-Chlorooctane | 81.5 % | 70-130 | | | | | | | |
| Surrogate: 1-Chlorooctadecane | 92.3 % | 70-130 | | | | | | | |

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Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

| | |
|------|--|
| Z-01 | One or more surrogates above historical limits. |
| 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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A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

Texerra

Vacuum N-28-2 Vent



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

June 17, 2011

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

RE: VACUUM N-28-2 VENT

Enclosed are the results of analyses for samples received by the laboratory on 06/09/11 10:10.

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,

A handwritten signature in black ink, reading "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" being more prominent.

Celey D. Keene
Lab Director/Quality Manager

Page 1 of 4

Vacuum N-28-2 Vent



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

Analytical Results For:

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

| | | | |
|-------------------|--------------------|---------------------|---------------|
| Received: | 06/09/2011 | Sampling Date: | 06/08/2011 |
| Reported: | 06/17/2011 | Sampling Type: | Soil |
| Project Name: | VACUUM N-28-2 VENT | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | NOT GIVEN | | |

Sample ID: SB 4 @ 40' (H101195-01)

| Chloride, SM4500Cl-B | | | mg/kg | | Analyzed By: HM | | | | | |
|-------------------------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 6560 | 16.0 | 06/11/2011 | ND | 416 | 104 | 400 | 0.00 | | |
| TPH 8015M | | | mg/kg | | Analyzed By: AB | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| GRO C6-C10 | 19.7 | 10.0 | 06/14/2011 | ND | 216 | 108 | 200 | 1.49 | | |
| DRO >C10-C28 | 1130 | 10.0 | 06/14/2011 | ND | 203 | 102 | 200 | 7.13 | | |
| Surrogate: 1-Chlorooctane | | 128 % | 70-130 | | | | | | | |
| Surrogate: 1-Chlorooctadecane | | 139 % | 70-130 | | | | | | | |

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Page 2 of 4



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Notes and Definitions

Z-01 One or more surrogates above historical limits.
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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A handwritten signature in cursive script, reading "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

Page 3 of 4



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

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† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2976

#26

Vacuum N-28-2 Vent



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

June 17, 2011

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

RE: VACUUM N-28-2 VENT

Enclosed are the results of analyses for samples received by the laboratory on 06/10/11 16:20.

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,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene
Lab Director/Quality Manager

Vacuum N-28-2 Vent



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

Analytical Results For:

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

| | | | |
|-------------------|--------------------|---------------------|---------------|
| Received: | 06/10/2011 | Sampling Date: | 06/09/2011 |
| Reported: | 06/17/2011 | Sampling Type: | Soil |
| Project Name: | VACUUM N-28-2 VENT | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | NOT GIVEN | | |

Sample ID: SB 5 @ 5' (H101214-01)

| BTX 8260B | | mg/kg | | Analyzed By: CMS | | | | | | |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 06/14/2011 | ND | 2.21 | 111 | 2.00 | 7.93 | | |
| Toluene* | <0.050 | 0.050 | 06/14/2011 | ND | 2.24 | 112 | 2.00 | 7.82 | | |
| Ethylbenzene* | 0.388 | 0.050 | 06/14/2011 | ND | 2.32 | 116 | 2.00 | 8.13 | | |
| Total Xylenes* | 0.367 | 0.150 | 06/14/2011 | ND | 6.54 | 109 | 6.00 | 8.53 | | |

Surrogate: Dibromofluoromethane 97.6 % 80-120
Surrogate: Toluene-d8 104 % 80-120
Surrogate: 4-Bromofluorobenzene 115 % 80-120

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: HM | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 464 | 16.0 | 06/15/2011 | ND | 448 | 112 | 400 | 0.00 | | |

| TPH 8015M | | mg/kg | | Analyzed By: AB | | | | | | |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| GRO C6-C10 | <50.0 | 50.0 | 06/16/2011 | ND | 206 | 103 | 200 | 5.32 | | |
| DRO >C10-C28 | 1500 | 50.0 | 06/16/2011 | ND | 187 | 93.3 | 200 | 5.61 | | |

Surrogate: 1-Chlorooctane 91.3 % 70-130
Surrogate: 1-Chlorooctadecane 98.8 % 70-130

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Page 2 of 7

Vacuum N-28-2 Vent



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

Analytical Results For:

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

| | | | |
|-------------------|--------------------|---------------------|---------------|
| Received: | 06/10/2011 | Sampling Date: | 06/09/2011 |
| Reported: | 06/17/2011 | Sampling Type: | Soil |
| Project Name: | VACUUM N-28-2 VENT | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | NOT GIVEN | | |

Sample ID: SB 5 @ 35' (H101214-02)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: HM | | | | | |
|-------------------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 6320 | 16.0 | 06/15/2011 | ND | 448 | 112 | 400 | 0.00 | |
| 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 | 06/16/2011 | ND | 206 | 103 | 200 | 5.32 | |
| DRO >C10-C28 | <10.0 | 10.0 | 06/16/2011 | ND | 187 | 93.3 | 200 | 5.61 | |
| Surrogate: 1-Chlorooctane | | 82.5 % | 70-130 | | | | | | |
| Surrogate: 1-Chlorooctadecane | | 102 % | 70-130 | | | | | | |

Sample ID: SB 5 @ 65' (H101214-03)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: HM | | | | | | |
|-------------------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 1220 | 16.0 | 06/15/2011 | ND | 448 | 112 | 400 | 0.00 | | |
| 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 | 06/16/2011 | ND | 206 | 103 | 200 | 5.32 | | |
| DRO >C10-C28 | <10.0 | 10.0 | 06/16/2011 | ND | 187 | 93.3 | 200 | 5.61 | | |
| Surrogate: 1-Chlorooctane | | 78.0 % | 70-130 | | | | | | | |
| Surrogate: 1-Chlorooctadecane | | 92.2 % | 70-130 | | | | | | | |

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Page 3 of 7

Vacuum N-28-2 Vent



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

Analytical Results For:

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

| | | | |
|-------------------|--------------------|---------------------|---------------|
| Received: | 06/10/2011 | Sampling Date: | 06/09/2011 |
| Reported: | 06/17/2011 | Sampling Type: | Soil |
| Project Name: | VACUUM N-28-2 VENT | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | NOT GIVEN | | |

Sample ID: SB 6 @ 5' (H101214-04)

| BTEX 8260B | | mg/kg | | Analyzed By: CMS | | | | | |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 06/14/2011 | ND | 2.21 | 111 | 2.00 | 7.93 | |
| Toluene* | <0.050 | 0.050 | 06/14/2011 | ND | 2.24 | 112 | 2.00 | 7.82 | |
| Ethylbenzene* | <0.050 | 0.050 | 06/14/2011 | ND | 2.32 | 116 | 2.00 | 8.13 | |
| Total Xylenes* | <0.150 | 0.150 | 06/14/2011 | ND | 6.54 | 109 | 6.00 | 8.53 | |

Surrogate: Dibromofluoromethane 101 % 80-120
Surrogate: Toluene-d8 105 % 80-120
Surrogate: 4-Bromofluorobenzene 112 % 80-120

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: HM | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 272 | 16.0 | 06/15/2011 | ND | 448 | 112 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: AB | | | | | |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <50.0 | 50.0 | 06/16/2011 | ND | 206 | 103 | 200 | 5.32 | |
| DRO >C10-C28 | 358 | 50.0 | 06/16/2011 | ND | 187 | 93.3 | 200 | 5.61 | |

Surrogate: 1-Chlorooctane 79.1 % 70-130
Surrogate: 1-Chlorooctadecane 76.8 % 70-130

Cardinal Laboratories

*=Accredited Analyte

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Celestine D. Keene

Celestine D. Keene, Lab Director/Quality Manager

Page 4 of 7

Vacuum N-28-2 Vent



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

Analytical Results For:

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

| | | | |
|-------------------|--------------------|---------------------|---------------|
| Received: | 06/10/2011 | Sampling Date: | 06/09/2011 |
| Reported: | 06/17/2011 | Sampling Type: | Soil |
| Project Name: | VACUUM N-28-2 VENT | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | NOT GIVEN | | |

Sample ID: SB 6 @ 45' (H101214-05)

| Chloride, SM4500Cl-B | | mg/kg | Analyzed By: HM | | | | | | |
|-------------------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 6240 | 16.0 | 06/15/2011 | ND | 448 | 112 | 400 | 0.00 | |
| 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 | 06/16/2011 | ND | 206 | 103 | 200 | 5.32 | |
| DRO >C10-C28 | <10.0 | 10.0 | 06/16/2011 | ND | 187 | 93.3 | 200 | 5.61 | |
| Surrogate: 1-Chlorooctane | 76.2 % | 70-130 | | | | | | | |
| Surrogate: 1-Chlorooctadecane | 92.5 % | 70-130 | | | | | | | |

Sample ID: SB 6 @ 65' (H101214-06)

| Chloride, SM4500Cl-B | | mg/kg | Analyzed By: HM | | | | | | |
|-------------------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 2050 | 16.0 | 06/15/2011 | ND | 448 | 112 | 400 | 0.00 | |
| 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 | 06/16/2011 | ND | 206 | 103 | 200 | 5.32 | |
| DRO >C10-C28 | <10.0 | 10.0 | 06/16/2011 | ND | 187 | 93.3 | 200 | 5.61 | |
| Surrogate: 1-Chlorooctane | 80.6 % | 70-130 | | | | | | | |
| Surrogate: 1-Chlorooctadecane | 100 % | 70-130 | | | | | | | |

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*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Page 5 of 7



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

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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

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

| BILL TO | | | | | | | | | | ANALYSIS REQUEST | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------|------------|--------|-----|-------|---------|----------|------------|-------|---|-------|--|--|--|--|--|--|--|--|--------------|-------------|------------|--------|--|-------|---------|----------|------------|-------|----------|--|------|-----|------|------|---|---|---|---|---|---|---|---|---|---|--------|-------|---|---|---|---|---|---|---|---|---|---|--|-------|---|---|---|---|---|---|---|---|---|---|--|-------|---|---|---|---|---|---|---|---|---|---|--|-------|---|---|---|---|---|---|---|---|---|---|--|-------|---|---|---|---|---|---|---|---|---|---|--|-------|
| Company Name: Rice Operating Company Project Manager: Hack Conder | | | | | | | | | | P.O. #: Company: Attn: Address: City: State: Zip: Phone #: Fax #: Fax #: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Address: 122 West Taylor City: Hobbs State: NM Zip: 88240 Phone #: 575-393-9174 Fax #: 575-397-1471 Project #: Project Owner: Project Name: Vacuum N-28-2 Vent Project Location: Vacuum N-28-2 Vent Sampler Name: Jordan Woodfin | | | | | | | | | | Chlorides TPH 8015 M BTEX Texas TPH Complete Cations/Anions TPH 8015 M Extended Thru C40 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FOR LAB USE ONLY Lab I.D. Sample I.D. H1D1214 | | | | | | | | | | <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2"># CONTAINERS</th> <th rowspan="2">GROUNDWATER</th> <th rowspan="2">WASTEWATER</th> <th colspan="2">MATRIX</th> <th rowspan="2">OTHER</th> <th rowspan="2">PRESERV</th> <th rowspan="2">ACIDBASE</th> <th rowspan="2">ICE / COOL</th> <th rowspan="2">OTHER</th> <th colspan="2">SAMPLING</th> </tr> <tr> <th>SOIL</th> <th>OIL</th> <th>DATE</th> <th>TIME</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>6/9/11</td> <td>08:00</td> </tr> <tr> <td>1</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td></td> <td>08:30</td> </tr> <tr> <td>1</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td></td> <td>09:00</td> </tr> <tr> <td>1</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td></td> <td>10:00</td> </tr> <tr> <td>1</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td></td> <td>10:30</td> </tr> <tr> <td>1</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td></td> <td>11:00</td> </tr> </tbody> </table> | | | | | | | | | | # CONTAINERS | GROUNDWATER | WASTEWATER | MATRIX | | OTHER | PRESERV | ACIDBASE | ICE / COOL | OTHER | SAMPLING | | SOIL | OIL | DATE | TIME | 1 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 6/9/11 | 08:00 | 1 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | 08:30 | 1 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | 09:00 | 1 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | 10:00 | 1 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | 10:30 | 1 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | 11:00 |
| # CONTAINERS | GROUNDWATER | WASTEWATER | MATRIX | | OTHER | PRESERV | ACIDBASE | ICE / COOL | OTHER | SAMPLING | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | SOIL | OIL | | | | | | DATE | TIME | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 6/9/11 | 08:00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | 08:30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | 09:00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | 10:00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | 10:30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | 11:00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Relinquished By: Jordan Woodfin Date: 6/9/11 Time: 4:20 | | | | | | | | | | Received By: Gordon Newson Date: 6/9/11 Time: 4:20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Relinquished By: Date: Time: | | | | | | | | | | Received By: Date: Time: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Delivered By: (Circle One) Sampler - UPS - Bus - Other: | | | | | | | | | | Sample Condition Cool - Intact <input type="checkbox"/> Yes <input type="checkbox"/> No | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CHECKED BY: (Initials) | | | | | | | | | | Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #: Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Fax #: REMARKS: email results | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hconder@riceswd.com; jwoodfin@rice-ecs.com; Lweinheimer@rice-ecs.com kjones@riceswd.com | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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NEED SAMPLES BACK, PLEASE

Vacuum N-28-2 Vent



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

March 06, 2012

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

RE: VACUUM N-28-2 VENT

Enclosed are the results of analyses for samples received by the laboratory on 03/01/12 13:20.

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_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,

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/01/2012
Reported: 03/06/2012
Project Name: VACUUM N-28-2 VENT
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 03/01/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SB 7 @ SURFACE (H200548-01)

| Chloride, SM4500Cl-B | | mg/kg | Analyzed By: HM | | | | | | |
|-------------------------------|--------------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 15400 | 16.0 | 03/02/2012 | ND | 432 | 108 | 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 | 03/03/2012 | ND | 192 | 96.2 | 200 | 3.12 | |
| DRO >C10-C28 | 28.2 | 10.0 | 03/03/2012 | ND | 157 | 78.5 | 200 | 2.75 | |
| Surrogate: 1-Chlorooctane | 97.0 % | 55.5-154 | | | | | | | |
| Surrogate: 1-Chlorooctadecane | 98.2 % | 57.6-158 | | | | | | | |

Sample ID: SB 7 @ 10' (H200548-02)

| Chloride, SM4500Cl-B | | mg/kg | Analyzed By: HM | | | | | | |
|-------------------------------|-------------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 4560 | 16.0 | 03/02/2012 | 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 | 03/05/2012 | ND | 206 | 103 | 200 | 15.5 | |
| DRO >C10-C28 | 13.0 | 10.0 | 03/05/2012 | ND | 195 | 97.3 | 200 | 8.29 | |
| Surrogate: 1-Chlorooctane | 92.6 % | 55.5-154 | | | | | | | |
| Surrogate: 1-Chlorooctadecane | 95.6 % | 57.6-158 | | | | | | | |

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Vacuum N-28-2 Vent



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

Analytical Results For:

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

Received: 03/01/2012
Reported: 03/06/2012
Project Name: VACUUM N-28-2 VENT
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 03/01/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SB 7 @ 65' (H200548-03)

| Chloride, SM4500Cl-B | | mg/kg | Analyzed By: HM | | | | | | | |
|-------------------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 2480 | 16.0 | 03/02/2012 | ND | 432 | 108 | 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 | 03/05/2012 | ND | 206 | 103 | 200 | 15.5 | | |
| DRO >C10-C28 | <10.0 | 10.0 | 03/05/2012 | ND | 195 | 97.3 | 200 | 8.29 | | |
| Surrogate: 1-Chlorooctane | | 107 % | 55.5-154 | | | | | | | |
| Surrogate: 1-Chlorooctadecane | | 117 % | 57.6-158 | | | | | | | |

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Coley D. Keene

Coley D. Keene, Lab Director/Quality Manager

Page 3 of 5

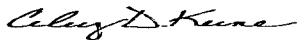
Notes and Definitions

| | |
|------|--|
| S-HI | High surrogate recovery was confirmed as a matrix effect by a second analysis. |
| 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

✦ ARDINAL LABORATORIES

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

[illegible]

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#26

Vacuum N-28-2 Vent



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

March 09, 2012

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

RE: VACUUM N-28-2 VENT

Enclosed are the results of analyses for samples received by the laboratory on 03/02/12 12:20.

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_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".

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/02/2012
Reported: 03/09/2012
Project Name: VACUUM N-28-2 VENT
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 03/02/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SB 8 @ 25' (H200561-01)

| BTX 8021B | | | mg/kg | | Analyzed By: AP | | | S-04 | |
|----------------|--------------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 03/07/2012 | ND | 1.88 | 93.8 | 2.00 | 4.76 | |
| Toluene* | 0.077 | 0.050 | 03/07/2012 | ND | 2.04 | 102 | 2.00 | 4.10 | |
| Ethylbenzene* | 0.315 | 0.050 | 03/07/2012 | ND | 2.09 | 104 | 2.00 | 3.65 | |
| Total Xylenes* | 3.16 | 0.150 | 03/07/2012 | ND | 6.54 | 109 | 6.00 | 3.57 | |

Surrogate: 4-Bromofluorobenzene (PIL) 159 % 64.4-134

| Chloride, SM4500Cl-B | | | mg/kg | | Analyzed By: AP | | | | |
|----------------------|-------------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 2920 | 16.0 | 03/05/2012 | ND | 432 | 108 | 400 | 3.77 | |

| TPH 8015M | | | mg/kg | | Analyzed By: MS | | | | |
|--------------|-------------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | 214 | 50.0 | 03/06/2012 | ND | 195 | 97.4 | 200 | 24.4 | |
| DRO >C10-C28 | 1510 | 50.0 | 03/06/2012 | ND | 196 | 98.2 | 200 | 16.7 | |

Surrogate: 1-Chlorooctane 124 % 55.5-154

Surrogate: 1-Chlorooctadecane 157 % 57.6-158

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/02/2012
Reported: 03/09/2012
Project Name: VACUUM N-28-2 VENT
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 03/02/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SB 8 @ 40' (H200561-02)

| BTX 8021B | | | mg/kg | | Analyzed By: AP | | | S-04 | |
|----------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 03/07/2012 | ND | 1.88 | 93.8 | 2.00 | 4.76 | |
| Toluene* | 0.059 | 0.050 | 03/07/2012 | ND | 2.04 | 102 | 2.00 | 4.10 | |
| Ethylbenzene* | 0.223 | 0.050 | 03/07/2012 | ND | 2.09 | 104 | 2.00 | 3.65 | |
| Total Xylenes* | 1.52 | 0.150 | 03/07/2012 | ND | 6.54 | 109 | 6.00 | 3.57 | |

Surrogate: 4-Bromofluorobenzene (PIL) 139 % 64.4-134

| Chloride, SM4500Cl-B | | | mg/kg | | Analyzed By: AP | | | | |
|----------------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 2960 | 16.0 | 03/05/2012 | ND | 432 | 108 | 400 | 3.77 | |

| TPH 8015M | | | mg/kg | | Analyzed By: MS | | | | |
|--------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | 134 | 50.0 | 03/06/2012 | ND | 195 | 97.4 | 200 | 24.4 | |
| DRO >C10-C28 | 840 | 50.0 | 03/06/2012 | ND | 196 | 98.2 | 200 | 16.7 | |

Surrogate: 1-Chlorooctane 114 % 55.5-154

Surrogate: 1-Chlorooctadecane 133 % 57.6-158

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Celest D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/02/2012
Reported: 03/09/2012
Project Name: VACUUM N-28-2 VENT
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 03/02/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SB 8 @ 65' (H200561-03)

| BTEX 8021B | | | mg/kg | | Analyzed By: AP | | | | |
|----------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 03/07/2012 | ND | 1.85 | 92.4 | 2.00 | 13.7 | |
| Toluene* | <0.050 | 0.050 | 03/07/2012 | ND | 2.02 | 101 | 2.00 | 13.5 | |
| Ethylbenzene* | 0.056 | 0.050 | 03/07/2012 | ND | 2.07 | 103 | 2.00 | 13.1 | |
| Total Xylenes* | 0.248 | 0.150 | 03/07/2012 | ND | 6.52 | 109 | 6.00 | 12.4 | |

Surrogate: 4-Bromofluorobenzene (PIL) 127 % 64.4-134

| Chloride, SM4500Cl-B | | | mg/kg | | Analyzed By: AP | | | | |
|----------------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 2400 | 16.0 | 03/05/2012 | ND | 432 | 108 | 400 | 3.77 | |

| TPH 8015M | | | mg/kg | | Analyzed By: MS | | | | |
|--------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | 23.3 | 10.0 | 03/06/2012 | ND | 195 | 97.4 | 200 | 24.4 | |
| DRO >C10-C28 | 283 | 10.0 | 03/06/2012 | ND | 196 | 98.2 | 200 | 16.7 | |

Surrogate: 1-Chlorooctane 103 % 55.5-154

Surrogate: 1-Chlorooctadecane 110 % 57.6-158

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Vacuum N-28-2 Vent



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Analytical Results For:

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

| | | | |
|-------------------|--------------------|---------------------|---------------|
| Received: | 03/02/2012 | Sampling Date: | 03/02/2012 |
| Reported: | 03/09/2012 | Sampling Type: | Soil |
| Project Name: | VACUUM N-28-2 VENT | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | NOT GIVEN | | |

Sample ID: SB 9 @ 10' (H200561-04)

| Chloride, SM4500Cl-B | | | mg/kg | | Analyzed By: AP | | | | | |
|-------------------------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 4960 | 16.0 | 03/05/2012 | ND | 432 | 108 | 400 | 3.77 | | |
| 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 | 03/07/2012 | ND | 164 | 82.1 | 200 | 5.85 | | |
| DRO >C10-C28 | <10.0 | 10.0 | 03/07/2012 | ND | 219 | 110 | 200 | 5.58 | | |
| | | | | | | | | | | |
| Surrogate: 1-Chlorooctane | 91.6 % | 55.5-154 | | | | | | | | |
| Surrogate: 1-Chlorooctadecane | 104 % | 57.6-158 | | | | | | | | |

Sample ID: SB 9 @ 65' (H200561-05)

| Chloride, SM4500Cl-B | | | mg/kg | | Analyzed By: AP | | | | | |
|-------------------------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 240 | 16.0 | 03/05/2012 | ND | 432 | 108 | 400 | 3.77 | | |
| 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 | 03/07/2012 | ND | 164 | 82.1 | 200 | 5.85 | | |
| DRO >C10-C28 | <10.0 | 10.0 | 03/07/2012 | ND | 219 | 110 | 200 | 5.58 | | |
| <hr/> | | | | | | | | | | |
| Surrogate: 1-Chlorooctane | 98.3 % | 55.5-154 | | | | | | | | |
| Surrogate: 1-Chlorooctadecane | 107 % | 57.6-158 | | | | | | | | |

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Celestine D. Keene

Celestine D. Keene, Lab Director/Quality Manager

Page 5 of 8

Vacuum N-28-2 Vent



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Analytical Results For:

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

| | | | |
|-------------------|--------------------|---------------------|---------------|
| Received: | 03/02/2012 | Sampling Date: | 03/02/2012 |
| Reported: | 03/09/2012 | Sampling Type: | Soil |
| Project Name: | VACUUM N-28-2 VENT | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | NOT GIVEN | | |

Sample ID: SB 10 @ 50' (H200561-06)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AP | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 4320 | 16.0 | 03/05/2012 | ND | 432 | 108 | 400 | 3.77 | |
| 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 | 03/08/2012 | ND | 224 | 112 | 200 | 6.30 | |
| DRO >C10-C28 | 22.2 | 10.0 | 03/08/2012 | ND | 184 | 91.8 | 200 | 2.48 | |

Surrogate: 1-Chlorooctane 105 % 55.5-154

Surrogate: 1-Chlorooctadecane 110 % 57.6-158

Sample ID: SB 10 @ 65' (H200561-07)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AP | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1120 | 16.0 | 03/05/2012 | ND | 432 | 108 | 400 | 3.77 | |
| 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 | 03/08/2012 | ND | 224 | 112 | 200 | 6.30 | |
| DRO >C10-C28 | 13.0 | 10.0 | 03/08/2012 | ND | 184 | 91.8 | 200 | 2.48 | |

Surrogate: 1-Chlorooctane 116 % 55.5-154

Surrogate: 1-Chlorooctadecane 114 % 57.6-158

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Page 6 of 8



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Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- 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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A handwritten signature in black ink, reading "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

Page 7 of 8

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

| Company Name: Rice | | | | | | BILL TO | | | | | | | | ANALYSIS REQUEST | | | | | | |
|--|-------------|----------------------------------|---------------------------|-------------|-----------------|------------------------------------|--|--|--------|----------|---|----------|---|-------------------------|--|--|--|--|--|--|
| Project Manager: Hack Conder | | | | | | P.O. #: | | | | | | | | | | | | | | |
| Address: | | | | | | Company: | | | | | | | | | | | | | | |
| City: Hobbs | | | State: NM | | Zip: 88240 | Attn: | | | | | | | | | | | | | | |
| Phone #: | | | Fax #: | | | Address: | | | | | | | | | | | | | | |
| Project #: | | | Project Owner: | | | City: | | | | | | | | | | | | | | |
| Project Name: | | | | | | State: Zip: | | | | | | | | | | | | | | |
| Project Location: VALUUM N-28-2 Unit 17S-396 | | | | | | Phone #: | | | | | | | | | | | | | | |
| Sampler Name: Kyle Norman | | | | | | Fax #: | | | | | | | | | | | | | | |
| FOR LAB USE ONLY | | | | | | MATRIX | | | | PRESERV. | | SAMPLING | | | | | | | | |
| Lab I.D. | Sample I.D. | (GRAB OR C/OMP.) # CONTAINERS | GROUNDWATER WASTEWATER | SOIL OIL | SUDGE OTHER: | ACID/BASE: ICE / COOL OTHER: | | | DATE | TIME | | | | | | | | | | |
| H200561 | | | | | | | | | | | | | | | | | | | | |
| 1 | SB 8 @ 25' | G | / | / | / | / | | | 3-2-12 | 8:30 | / | / | / | | | | | | | |
| 2 | SB 8 @ 40' | G | / | / | / | / | | | 3-2-12 | 8:45 | / | / | / | | | | | | | |
| 3 | SB 8 @ 65' | G | / | / | / | / | | | 3-2-12 | 9:00 | / | / | / | | | | | | | |
| 4 | SB 9 @ 10' | G | / | / | / | / | | | 3-2-12 | 9:45 | / | / | | | | | | | | |
| 5 | SB 9 @ 65' | G | / | / | / | / | | | 3-2-12 | 10:45 | / | / | | | | | | | | |
| 6 | SB 10 @ 50' | G | / | / | / | / | | | 3-2-12 | 11:00 | / | / | | | | | | | | |
| 7 | SB 10 @ 65' | G | / | / | / | / | | | 3-2-12 | 11:30 | / | / | | | | | | | | |

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| | | | | | |
|-------------------------------------|--|---|---------------------------------|---|----------------|
| Relinquished By: <i>[Signature]</i> | | Date: <i>3-7-02</i> | Received By: <i>[Signature]</i> | Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Add'l Phone #: |
| Time: <i>12:30</i> | | | | Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Add'l Fax #: |
| Relinquished By: | | Date: | Received By: | REMARKS: | |
| Time: | | | | email results: zconder@rice-ecs.com | |
| Delivered By: (Circle One) | | Sample Condition | | Knorman@rice-ecs.com; lpena@riceswd.com | |
| Sampler - UPS - Bus - Other: | | Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> | | Kjones@riceswd.com; Bbaker@rice-ecs.com; | |
| | | Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> | | hconder@rice-ecs.com; Lweinheimer@rice-ecs.com | |
| | | Checked By: <i>[Signature]</i> | | | |

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

#26

Hansen, Edward J., EMNRD

From: Laura Pena <lpena@riceswd.com>
Sent: Wednesday, May 09, 2012 11:41 AM
To: Hansen, Edward J., EMNRD
Cc: Hack Conder; Katie Jones; L Peter Galusky Jr
Subject: Vacuum N-28 vent, jct. N-28-1, and N-28-2 vent Plats
Attachments: Vacuum N-28 vent and N-28-1 ALL SB data and Proposed Liner 5-9-12.jpg; Vacuum N-28 vent, N-28-2 vent and N-28-1 OUTSIDE SB DATA 5-9-12.jpg

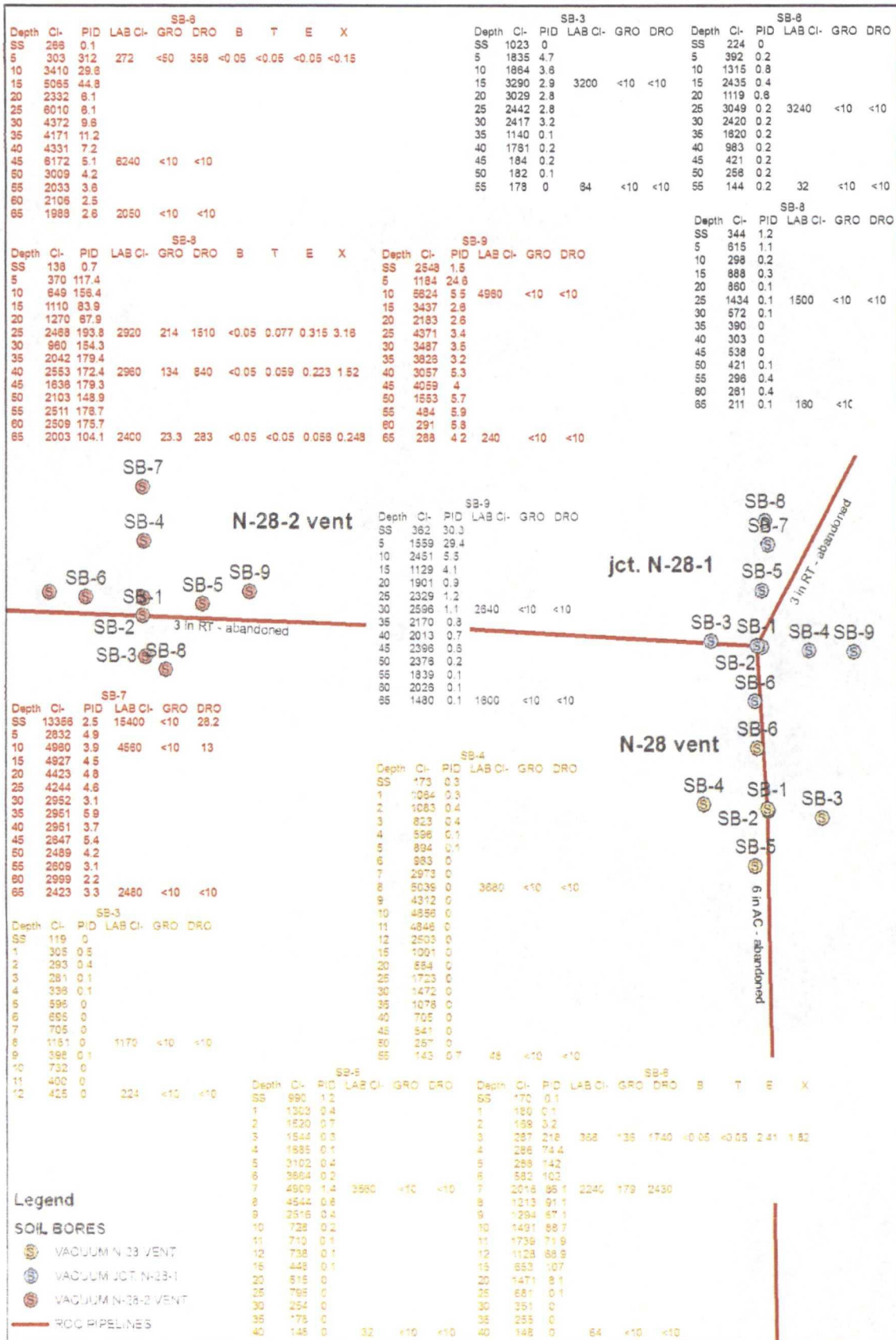
Mr. Hansen,

Attach are the plats for Vacuum N-28 vent (1R425-85), Jct. N-28-1 (1R425-87), and N-28-2 vent (1R425-86) as discussed during the May 1, 2012 meeting between NMOCD and Rice Operating Company.

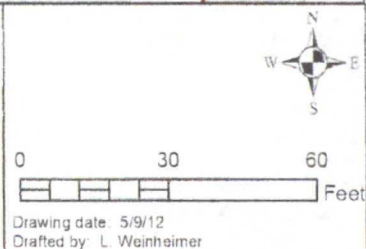
- One plat depicts the relationship of N-28 vent and jct. N-28-1 to each other with soil data and the proposed liner.
- The other plat depicts all 3 sites and the relationships between them with all outside soil data.

If you have any questions or require more information, please do not hesitate to contact Hack Conder at (575) 631-6432.

Thank you,
Laura Peña



VACUUM N-28 VENT
 NMOCD Case #: 1R425-85
VACUUM JCT. N-28-1
 NMOCD Case #: 1R425-87
VACUUM N-28-2 VENT
 NMOCD Case #: 1R425-86
 LEGALS: UL/N&K sec. 28
 T-17-S R-35-E



| SB-1 | | | | | | SB-2 | | | | | | SB-3 | | | | | | SB-4 | | | | | |
|-------|------|-------|---------|-----|-----|-------|------|------|---------|-----|-----|-------|------|-----|---------|-----|-----|-------|------|-----|---------|-----|-----|
| Depth | CI- | PID | LAB CI- | GRO | DRO | Depth | CI- | PID | LAB CI- | GRO | DRO | Depth | CI- | PID | LAB CI- | GRO | DRO | Depth | CI- | PID | LAB CI- | GRO | DRO |
| SS | 183 | 0.1 | | | | 15 | 4900 | 11.9 | 4800 | <10 | <10 | 5 | 1023 | 0 | | | | 5 | 345 | 0.1 | | | |
| 3 | 581 | 120.8 | | | | 20 | 1573 | 2.4 | | | | 5 | 1835 | 4.7 | | | | 5 | 385 | 5.7 | | | |
| 4 | 688 | 53.7 | | | | 25 | 3822 | 4.2 | | | | 10 | 1884 | 3.8 | | | | 10 | 803 | 7.7 | | | |
| 5 | 1908 | 12.5 | | | | 30 | 3458 | 2.8 | | | | 15 | 3290 | 2.9 | 3200 | <10 | <10 | 15 | 1388 | 8.1 | | | |
| 6 | 5498 | 3.7 | | | | 35 | 3483 | 2.1 | | | | 20 | 3029 | 2.8 | | | | 20 | 1749 | 3.1 | | | |
| 7 | 5828 | 2.9 | | | | 40 | 2622 | 4.7 | | | | 25 | 2442 | 2.8 | | | | 25 | 3726 | 2.7 | 4000 | <10 | <10 |
| 8 | 8249 | 8.1 | | | | 45 | 1872 | 3.9 | | | | 30 | 2417 | 3.2 | | | | 30 | 3504 | 2.1 | | | |
| 9 | 8224 | 1.5 | | | | 50 | 924 | 4.1 | | | | 35 | 1140 | 0.1 | | | | 35 | 3019 | 2 | | | |
| 10 | 8182 | 1.2 | | | | 55 | 770 | 0.7 | | | | 40 | 1781 | 0.2 | | | | 40 | 2259 | 1.1 | | | |
| 11 | 7835 | 0.5 | | | | 60 | 895 | 1.3 | | | | 45 | 184 | 0.2 | | | | 45 | 914 | 2.4 | | | |
| 12 | 6958 | 0.7 | 7400 | <10 | <10 | 65 | 852 | 1.2 | 928 | <10 | <10 | 50 | 182 | 0.1 | | | | 50 | 897 | 4.2 | | | |
| | | | | | | | | | | | | 55 | 178 | 0 | 84 | <10 | <10 | 55 | 535 | 0.9 | | | |
| | | | | | | | | | | | | | | | | | | 60 | 521 | 1.3 | | | |
| | | | | | | | | | | | | | | | | | | 65 | 452 | 1 | 432 | <10 | <10 |

| SB-5 | | | | | | SB-6 | | | | | | SB-7 | | | | | | SB-8 | | | | | |
|-------|------|-----|---------|-----|-----|-------|------|-----|---------|-----|-----|-------|------|-----|---------|-----|------|-------|------|-----|---------|-----|-----|
| Depth | CI- | PID | LAB CI- | GRO | DRO | Depth | CI- | PID | LAB CI- | GRO | DRO | Depth | CI- | PID | LAB CI- | GRO | DRO | Depth | CI- | PID | LAB CI- | GRO | DRO |
| SS | 3295 | 0.2 | | | | SS | 224 | 0 | | | | SS | 1298 | 0.4 | | | | SS | 344 | 1.2 | | | |
| 5 | 4157 | 1.2 | 4580 | <10 | <10 | 5 | 392 | 0.2 | | | | 5 | 2473 | 0.3 | 2200 | <10 | 12.3 | 5 | 815 | 1.1 | | | |
| 10 | 1569 | 2.2 | | | | 10 | 1315 | 0.8 | | | | 10 | 1828 | 0.3 | | | | 10 | 298 | 0.2 | | | |
| 15 | 1384 | 3.2 | | | | 15 | 2435 | 0.4 | | | | 15 | 1535 | 0.2 | | | | 15 | 688 | 0.3 | | | |
| 20 | 1515 | 4.9 | | | | 20 | 1119 | 0.6 | | | | 20 | 1418 | 0.1 | | | | 20 | 880 | 0.1 | | | |
| 25 | 2083 | 8.7 | | | | 25 | 3049 | 0.2 | 3240 | <10 | <10 | 25 | 1216 | 0 | | | | 25 | 1434 | 0.1 | 1500 | <10 | <10 |
| 30 | 1559 | 1.3 | | | | 30 | 2420 | 0.2 | | | | 30 | 909 | 0 | | | | 30 | 572 | 0.1 | | | |
| 35 | 1251 | 1.2 | | | | 35 | 1820 | 0.2 | | | | 35 | 839 | 0 | | | | 35 | 390 | 0 | | | |
| 40 | 1165 | 1.1 | | | | 40 | 983 | 0.2 | | | | 40 | 824 | 0.7 | | | | 40 | 303 | 0 | | | |
| 45 | 857 | 1.1 | | | | 45 | 421 | 0.2 | | | | 45 | 681 | 0.9 | | | | 45 | 538 | 0 | | | |
| 50 | 728 | 1 | | | | 50 | 256 | 0.2 | | | | 50 | 533 | 1.4 | | | | 50 | 421 | 0.1 | | | |
| 55 | 608 | 0.9 | | | | 55 | 144 | 0.2 | 32 | <10 | <10 | 55 | 454 | 1.4 | | | | 55 | 296 | 0.4 | | | |
| 60 | 517 | 0.2 | | | | | | | | | | 60 | 400 | 0.4 | | | | 60 | 261 | 0.4 | | | |
| 65 | 528 | 0.1 | 480 | <10 | <10 | | | | | | | 65 | 401 | 0.8 | 480 | <10 | <10 | 65 | 211 | 0.1 | 180 | <10 | <10 |

| SB-9 | | | | | | SB-10 | | | | | | SB-11 | | | | | | SB-12 | | | | | |
|-------|------|------|---------|-----|-----|-------|------|------|---------|-----|-----|-------|------|-----|---------|-----|-----|-------|------|-----|---------|-----|-----|
| Depth | CI- | PID | LAB CI- | GRO | DRO | Depth | CI- | PID | LAB CI- | GRO | DRO | Depth | CI- | PID | LAB CI- | GRO | DRO | Depth | CI- | PID | LAB CI- | GRO | DRO |
| SS | 362 | 30.3 | | | | SS | 149 | 0.4 | | | | SS | 173 | 0.3 | | | | SS | 173 | 0.3 | | | |
| 5 | 1559 | 29.4 | | | | 5 | 1559 | 29.4 | | | | 5 | 1064 | 0.3 | | | | 5 | 1064 | 0.3 | | | |
| 10 | 2451 | 5.5 | | | | 10 | 2451 | 5.5 | | | | 10 | 1083 | 0.4 | | | | 10 | 1083 | 0.4 | | | |
| 15 | 1129 | 4.1 | | | | 15 | 1129 | 4.1 | | | | 15 | 823 | 0.4 | | | | 15 | 823 | 0.4 | | | |
| 20 | 1901 | 0.9 | | | | 20 | 1901 | 0.9 | | | | 20 | 568 | 0.1 | | | | 20 | 568 | 0.1 | | | |
| 25 | 2329 | 1.2 | | | | 25 | 2329 | 1.2 | | | | 25 | 894 | 0.1 | | | | 25 | 894 | 0.1 | | | |
| 30 | 2596 | 1.1 | 2640 | <10 | <10 | 30 | 2596 | 1.1 | 2640 | <10 | <10 | 30 | 983 | 0 | | | | 30 | 983 | 0 | | | |
| 35 | 2170 | 0.8 | | | | 35 | 2170 | 0.8 | | | | 35 | 2873 | 0 | | | | 35 | 2873 | 0 | | | |
| 40 | 2013 | 0.7 | | | | 40 | 2013 | 0.7 | | | | 40 | 5039 | 0 | 3680 | <10 | <10 | 40 | 5039 | 0 | 3680 | <10 | <10 |
| 45 | 2398 | 0.6 | | | | 45 | 2398 | 0.6 | | | | 45 | 4312 | 0 | | | | 45 | 4312 | 0 | | | |
| 50 | 2373 | 0.2 | | | | 50 | 2373 | 0.2 | | | | 50 | 4856 | 0 | | | | 50 | 4856 | 0 | | | |
| 55 | 1839 | 0.1 | | | | 55 | 1839 | 0.1 | | | | 55 | 4848 | 0 | | | | 55 | 4848 | 0 | | | |
| 60 | 2026 | 0.1 | | | | 60 | 2026 | 0.1 | | | | 60 | 2503 | 0 | | | | 60 | 2503 | 0 | | | |
| 65 | 1480 | 0.1 | 1800 | <10 | <10 | 65 | 1480 | 0.1 | 1800 | <10 | <10 | 65 | 1001 | 0 | | | | 65 | 1001 | 0 | | | |

| SB-1 | | | | | | SB-2 | | | | | | SB-3 | | | | | | SB-4 | | | | | |
|-------|------|------|---------|-----|------|-------|------|------|---------|-----|------|-------|-----|-----|---------|-----|-----|-------|------|-----|---------|-----|-----|
| Depth | CI- | PID | LAB CI- | GRO | DRO | Depth | CI- | PID | LAB CI- | GRO | DRO | Depth | CI- | PID | LAB CI- | GRO | DRO | Depth | CI- | PID | LAB CI- | GRO | DRO |
| SS | 149 | 0.4 | | | | SS | 565 | 12.9 | | | | SS | 119 | 0 | | | | SS | 960 | 1.2 | | | |
| 3 | 656 | 176 | | | | 3 | 656 | 176 | | | | 3 | 305 | 0.5 | | | | 3 | 1302 | 0.4 | | | |
| 4 | 1294 | 178 | | | | 4 | 1294 | 178 | | | | 4 | 293 | 0.4 | | | | 4 | 1520 | 0.7 | | | |
| 5 | 2875 | 216 | | | | 5 | 2875 | 216 | | | | 5 | 281 | 0.1 | | | | 5 | 1544 | 0.3 | | | |
| 6 | 4013 | 162 | | | | 6 | 4013 | 162 | | | | 6 | 336 | 0.1 | | | | 6 | 1685 | 0.1 | | | |
| 7 | 6920 | 52 | | | | 7 | 6920 | 52 | | | | 7 | 596 | 0 | | | | 7 | 3102 | 0.4 | | | |
| 8 | 7662 | 5.5 | | | | 8 | 7662 | 5.5 | | | | 8 | 695 | 0 | | | | 8 | 3684 | 0.2 | | | |
| 9 | 8714 | 10.9 | | | | 9 | 8714 | 10.9 | | | | 9 | 705 | 0 | | | | 9 | 4929 | 1.4 | 3580 | <10 | <10 |
| 10 | 2905 | 11.2 | | | | 10 | 2905 | 11.2 | | | | 10 | 705 | 0 | | | | 10 | 4544 | 0.6 | | | |
| 11 | 2098 | 12.6 | | | | 11 | 2098 | 12.6 | | | | 11 | 705 | 0 | | | | 11 | 2616 | 0.4 | | | |
| 12 | 2117 | 15 | 2560 | <10 | 80.3 | 12 | 2117 | 15 | 2560 | <10 | 80.3 | 12 | 728 | 0.2 | | | | 12 | 728 | 0.2 | | | |

| SB-5 | | | | | | SB-6 | | | | | | SB-7 | | | | | | SB-8 | | | | | | | | | |
|-------|-----|------|---------|-----|-----|-------|------|------|---------|-----|------|-------|-------|------|---------|-----|------|-------|------|------|---------|-----|------|-------|-------|-----|------|
| Depth | CI- | PID | LAB CI- | GRO | DRO | Depth | CI- | PID | LAB CI- | GRO | DRO | Depth | CI- | PID | LAB CI- | GRO | DRO | Depth | CI- | PID | LAB CI- | GRO | DRO | | | | |
| SS | 565 | 12.9 | | | | SS | 170 | 0.1 | | | | SS | 170 | 0.1 | | | | SS | 170 | 0.1 | | | | | | | |
| 15 | 867 | 4.8 | 980 | <10 | <10 | 1 | 180 | 0.1 | | | | 1 | 180 | 0.1 | | | | 1 | 180 | 0.1 | | | | | | | |
| 20 | 395 | 6.2 | | | | 2 | 169 | 0.2 | | | | 2 | 169 | 0.2 | | | | 2 | 169 | 0.2 | | | | | | | |
| 25 | 300 | 2.9 | | | | 3 | 287 | 218 | 368 | 136 | 1740 | <0.05 | <0.05 | 241 | 1.82 | | | 3 | 287 | 218 | 368 | 136 | 1740 | <0.05 | <0.05 | 241 | 1.82 |
| 35 | 265 | 2.1 | | | | 4 | 286 | 74.4 | | | | 4 | 286 | 74.4 | | | | 4 | 286 | 74.4 | | | | | | | |
| 40 | 170 | 2 | 32 | <10 | <10 | 5 | 288 | 142 | | | | 5 | 288 | 142 | | | | 5 | 288 | 142 | | | | | | | |
| | | | | | | 6 | 562 | 102 | | | | 6 | 562 | 102 | | | | 6 | 562 | 102 | | | | | | | |
| | | | | | | 7 | 2016 | 86.1 | 2240 | 179 | 2450 | 7 | 2016 | 86.1 | 2240 | 179 | 2450 | 7 | 2016 | 86.1 | 2240 | 179 | 2450 | | | | |
| | | | | | | 8 | 1213 | 91.3 | | | | 8 | 1213 | 91.3 | | | | 8 | 1213 | 91.3 | | | | | | | |
| | | | | | | 9 | 1394 | 67.1 | | | | 9 | 1394 | 67.1 | | | | 9 | 1394 | 67.1 | | | | | | | |
| | | | | | | 10 | 1491 | 55.7 | | | | 10 | 1491 | 55.7 | | | | 10 | 1491 | 55.7 | | | | | | | |
| | | | | | | 11 | 1726 | 71.9 | | | | 11 | 1726 | 71.9 | | | | 11 | 1726 | 71.9 | | | | | | | |
| | | | | | | 12 | 1128 | 68.9 | | | | 12 | 1128 | 68.9 | | | | 12 | 1128 | 68.9 | | | | | | | |
| | | | | | | 15 | 653 | 107 | | | | 15 | 653 | 107 | | | | 15 | 653 | 107 | | | | | | | |
| | | | | | | 20 | 1471 | 8.1 | | | | 20 | 1471 | 8.1 | | | | 20 | 1471 | 8.1 | | | | | | | |
| | | | | | | 25 | 661 | 0.1 | | | | 25 | 661 | 0.1 | | | | 25 | 661 | 0.1 | | | | | | | |
| | | | | | | 30 | 351 | 0 | | | | 30 | 351 | 0 | | | | 30 | 351 | 0 | | | | | | | |
| | | | | | | 35 | 255 | 0 | | | | 35 | 255 | 0 | | | | 35 | 255 | 0 | | | | | | | |
| | | | | | | 40 | 148 | 0 | | | | 40 | 148 | 0 | 64 | <10 | <10 | 40 | 148 | 0 | 64 | <10 | <10 | | | | |

VACUUM N-23 VENT

VACUUM JCT. N-23-1

ROG PIPE LINES

PROPOSED 20-mil REINFORCED LINER @ 3'

Legend

SOIL BORES

The figure is a map showing the layout of a project area. A large green rectangle represents the 'PROPOSED 20-mil REINFORCED LINER @ 3\''. To the left of this rectangle, there are two circular symbols representing 'VACUUM N-23 VENT' and 'VACUUM JCT. N-23-1'. Above the green rectangle, there are several red lines representing 'ROG PIPE LINES'. The map also shows a network of roads and other infrastructure. The legend on the left side of the map defines the symbols used. The map is titled 'Legend' and 'SOIL BORES'.

VACUUM N-28 VENT

NMOCD Case #: 1R425-85

VACUUM JCT. N-28-1

NMOCD Case #: 1R425-87

LEGALS: UL/N&K sec. 28
T-17-S R-35-E

0 25 50 Feet

Drawing date: 5/9/12
Drafted by: L. Weinheimer