#### State of New Mexico Energy Minerals and Natural Resources

**Oil Conservation Division** 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-141 Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

#### **Release Notification and Corrective Action OPERATOR** Initial Report Final Report Name of Company Linn Energy Contact Gary Wink 2130 W. Bender Blvd., Hobbs, NM Telephone No. (575) 738-1739 ext. 1218 Address Caprock Maljamar Unit #98 Injection Well Facility Name Facility Type State of NM Lease No. 30-025-01525 Surface Owner State Lease Angell Mineral Owner LOCATION OF RELEASE Feet from the North/South Line Feet from the East/West Line Unit Letter Range County Section Township M 28 17S 33E 709 FSL 926 FWL Lea Latitude 32°48'0.745"N Longitude 103°40'25.7"W NATURE OF RELEASE Type of Release Produced Water Volume of Release Unknown Volume Recovered Unknown Source of Release **Fiberglass** Line Date and Hour of Occurrence Date and Hour of Discovery 5/1/2012 5/1/2012 If YES, To Whom? Was Immediate Notice Given? Yes No Not Required Geoffrey Leking Gary Wink Date and Hour By Whom? Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. Yes X No If a Watercourse was Impacted, Describe Fully.\* Describe Cause of Problem and Remedial Action Taken.\* Fiberglass line ruptured. The line was excavated out and repaired with a flange. The flange failed, and the damaged line was replaced with a new joint. Describe Area Affected and Cleanup Action Taken.\* The leak affected approximately 6,700 square feet of pasture land. The impacted area was delineated and representative soil samples were sent to a commercial laboratory for chloride and TPH confirmation. Impacted soils were excavated into the root zone and removed to a NMOCD approved disposal facility. A 20 mil reinforced liner was placed in the excavation bottom. The excavation was backfilled with clean imported soil and contoured to the surrounding area. The site will be seeded with a natural vegetative blend. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. **OIL CONSERVATION DIVISION** Signature: ENV SPECIALIST Approved by District Supervisor. Gary Wink Printed Name: Approval Date: 9/21/12 Title: **Production Foreman** Expiration Date: • Conditions of Approval: E-mail Address: gawink@linnenergy.com Attached IRP-9-12-2848

Attach Additional Sheets If Necessary

Date

Phone: (575) 738-1739 ext. 1218

District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

#### State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

|   |   |   | Rele  | ease Notifi  | catio   | n and Co  | orrective A   | ction  |   |  |  |  |
|---|---|---|---|--|---|---|---|--|---|--|--|--|
|   |   |   |   |  |   | <b>OPERA</b>  | FOR   | 🛛 Init   | ial Report 🔲 Final Report   |  |  |  |
| Name of Co  |   | Linn Operat                                       | ing   |  |   | Contact Gary Wink<br>Telephone No. (575) 738-1739 ext. 1218 |   |  |   |  |  |  |
| Address 2<br>Facility Nat                                       |   | ock Maljama                                       | r Unit #9   | 98   |   |   | vo. (575) 738-<br>be Injection W  | the second s |   |  |  |  |
|   |   |   |   |  |   |   |   |  | 20.005.01505  |  |  |  |
| Surface Ow  | ner State   | lease Angel                                       | 1   | Mineral  | Jwner   | State of NM   |   | Lease  | No. 30-025-01525  |  |  |  |
| 1.1.1.1   |   |   |   |  |   | N OF RE   |   |  | 1   |  |  |  |
| Unit Letter   | Section   | Township  | Range   | Feet from the  | North/South Line Feet from the East/West Line C |   |   |  | County  |  |  |  |
| М   | 28  | 175   | 33E   | 709  |   | FSL   | 926   | FWL  | Lea County  |  |  |  |
|   |   |   | Latitud   | le   | 5"N   | Longitu   | de <u>103°40'25</u>   | 5.7"W  |   |  |  |  |
|   |   |   |   | 100  |   | OF REL  |   |  |   |  |  |  |
| Type of Rele  | ase Produ   | uced Water  |   | 11147  | CILL  | Volume of   | the second se | own Volume   | Recovered Unknown   |  |  |  |
| Source of Re  | lease Fibe  | erglass Line                                      |   |  |   | Date and H<br>5/1/2012                                      | Hour of Occurrence  | ce Date and 5/1/2012   | Hour of Discovery   |  |  |  |
| Was Immedi  | ate Notice (  |   |   |  |   | If YES, To  | Whom?   | 5/1/2012   |   |  |  |  |
| 12.12   |   | $\boxtimes$                                       | Yes [   | No Not R   | lequired  | Geoffrey I  | eking   |  |   |  |  |  |
| By Whom?<br>Was a Water   |   |   |   |  |   | Date and H  |   | the Weterservere   |   |  |  |  |
| was a water   | course Read   |   | Yes 🛛   | No   |   | If YES, Volume Impacting the Watercourse.                   |   |  |   |  |  |  |
| If a Waterco  | urse was Im   | pacted, Descr                                     | ibe Fully.  | *  |   |   |   |  |   |  |  |  |
|   |   | em and Reme<br>The line was                       |   |  | d with a  | flange. The f   | lange failed, and   | the damaged line   | was replaced with a new joint.  |  |  |  |
| The initial r<br>standards.                                     | elease affec  |   | ft. of pastu  | ire, and the secon   |   |   |   |  | e remediated to NMOCD   |  |  |  |
| regulations a<br>public health<br>should their<br>or the enviro | Il operators<br>or the envi<br>operations h<br>onment. In a | are required to<br>ronment. The<br>nave failed to | to report and<br>acceptance<br>adequately<br>OCD accept | nd/or file certain<br>ce of a C-141 rep<br>y investigate and | release<br>ort by t<br>remedia                  | notifications a<br>he NMOCD n<br>ate contaminat             | nd perform correct<br>narked as "Final R<br>ion that pose a thr   | ctive actions for re<br>Report" does not re<br>reat to ground wat  | rsuant to NMOCD rules and<br>eleases which may endanger<br>elieve the operator of liability<br>er, surface water, human health<br>compliance with any other |  |  |  |
|   | 1   |   | 10  | 0  |   |   | OIL CON   | SERVATION  | <u>I DIVISION</u>   |  |  |  |
| Signature:  | Har   | yW.l  | Uin   | k  | -   |   | Distan  |  |   |  |  |  |
| Printed Nam   |   | y Wink  |   |  | igh-  | Approved by District Supervisor:                            |   |  |   |  |  |  |
| Title: H  | Production H  | Foreman   |   |  | ( et  | Approval Da   | te:   | Expiration   | Date:   |  |  |  |
| E-mail Addr   | ess: gav  | wink@linnen                                       | ergy.com  |  |   | Conditions of Approval: Attached                            |   |  |   |  |  |  |

Date: 5/10/2012 Phone: 575-738-1739 ext. 1218 \* Attach Additional Sheets If Necessary

# **LINN ENERGY**

2130 W. Bender Blvd. Hobbs, NM 88241 Phone 575.738.1739

# Caprock Maljamar Unit #98

# **Closure Report**

API 30-025-01525

Release Date: May 1, 2012

Unit Letter M, Section 28, Township 17S, Range 33E

appreved steelf Solving ENV. Specialist NMOCD-DIST 1 9/21/12

### Rice Environmental Consulting & Safety

P.O. Box 5630 Hobbs, NM 88241 Phone 575.393.4411 Fax 575.393.0293

#### August 13, 2012

Geoffrey Leking New Mexico Energy, Minerals, & Natural Resources Oil Conservation Division, Environmental Bureau – District 1 1625 N. French Dr. Hobbs, NM 88240-9273

#### RE: TERMINATION REQUEST Linn Energy – Caprock Maljamar Unit #98 AD UL/M sec. 28 T17S R33E API No. 30-025-01525

Mr. Leking:

Linn Energy has retained Rice Environmental Consulting and Safety (RECS) to address potential environmental concerns at the site referenced above.

#### **Background and Previous Work**

The site is an accidental discharge of produced water associated with the Caprock Maljamar Unit #98. A fiberglass line ruptured and released fluids into pasture land. The line was repaired with a flange. The flange failed, resulting in a second release, and the line was replaced with a new joint. An initial form C-141 was submitted by Linn Energy on May 10, 2012 (Appendix A). The site is located approximately 10 miles west of Buckeye in unit letter 'M' of section 28, T17S, R33E in Lea County, New Mexico.

Soil samples collected from the initial impacted area were field tested for chloride. Headspace measurements were also taken in the field using a Photo Ionization Detector (PID) (Figure 1). Samples from points 1 thru 4 were submitted to a commercial laboratory for chloride and TPH (GRO/DRO) analyses (Appendix C). All samples except the sample from Point #4 showed low chloride levels at approximately 1.5 ft. below ground surface (bgs).

The second leak event, due to a failed flange, further impacted the portion of the initial leak area surrounding Point #4 (Figure 2). From May 17 through June 12, 2012, soil bore sampling was used to determine the lateral and vertical extent of the secondary impact. Soil samples were similarly field tested and representative samples were submitted to a commercial laboratory for chloride and TPH analyses (Appendix C). Lab analysis confirmed that chloride levels decreased to less than 250 mg/kg at 65 ft. bgs. All soil bores were plugged in full with bentonite.

On June 11, 2012, a temporary groundwater monitoring well was installed approximately 90 ft. west of the leak area to a depth of 160 ft. to determine the existence of groundwater (Figure 2).

On June 14, 2012, groundwater was confirmed at a depth of 123 ft. bgs (Appendix D). The temporary monitoring well was plugged with bentonite to ground surface.

Succeeding these activities, NMOCD approved the following implementation. The area encompassing the second leak event was excavated to a depth of 5 ft. bgs (Figure 3). The bottom of the excavation was lined with a 20 mil reinforced plastic liner, and the remaining space was backfilled with clean soil to ground surface. The larger area encompassing the first leak event was excavated to 1.5 ft. bgs, and was backfilled with clean soil to ground surface as well. The entire affected area was contoured to the surrounding vicinity and was reseeded with Klein grass seed.

Impacted soils were removed from the excavations and transported to a NMOCD approved disposal facility. See Appendix B for photographs of field activities.

#### Conclusion

Due to the removal of impacted soils in the root zone, confirmed depth to groundwater, and the installation of a protective barrier to prevent further downward migration of remaining chloride, RECS, on behalf of Linn Energy, submits the final C-141 (Appendix D) and respectfully requests the closure of the regulatory file for this site.

RECS appreciates the opportunity to work with you on this project. Please call me at the number below if you have any questions or comments.

Sincerely,

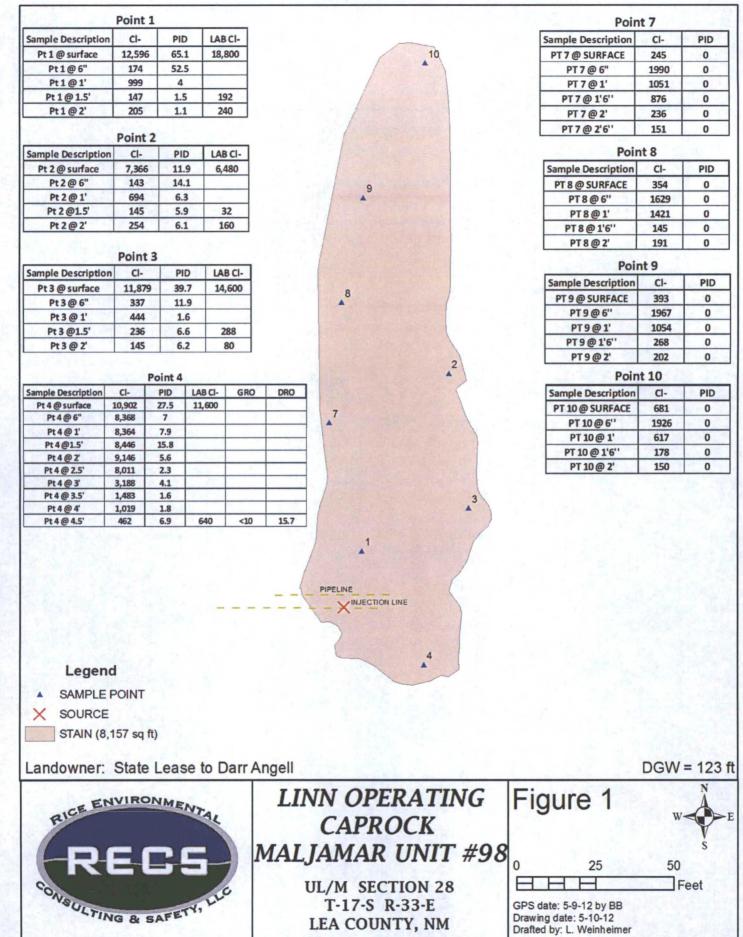
Bruce Bacher

Bruce Baker Head Foreman RECS (575) 631-5157

Attachments:

| Site Plat with Initial Release and Sample Data              |
|---|
| Site Plat with Second Release and Soil Bore Sampling Data   |
| Site Plat with Excavation and Liner Dimensions              |
| Initial Form C-141  |
| Site Photographs  |
| Laboratory Results  |
| Letter of Groundwater Verification and Drilling Photographs |
| Final Form C-141  |
|   |

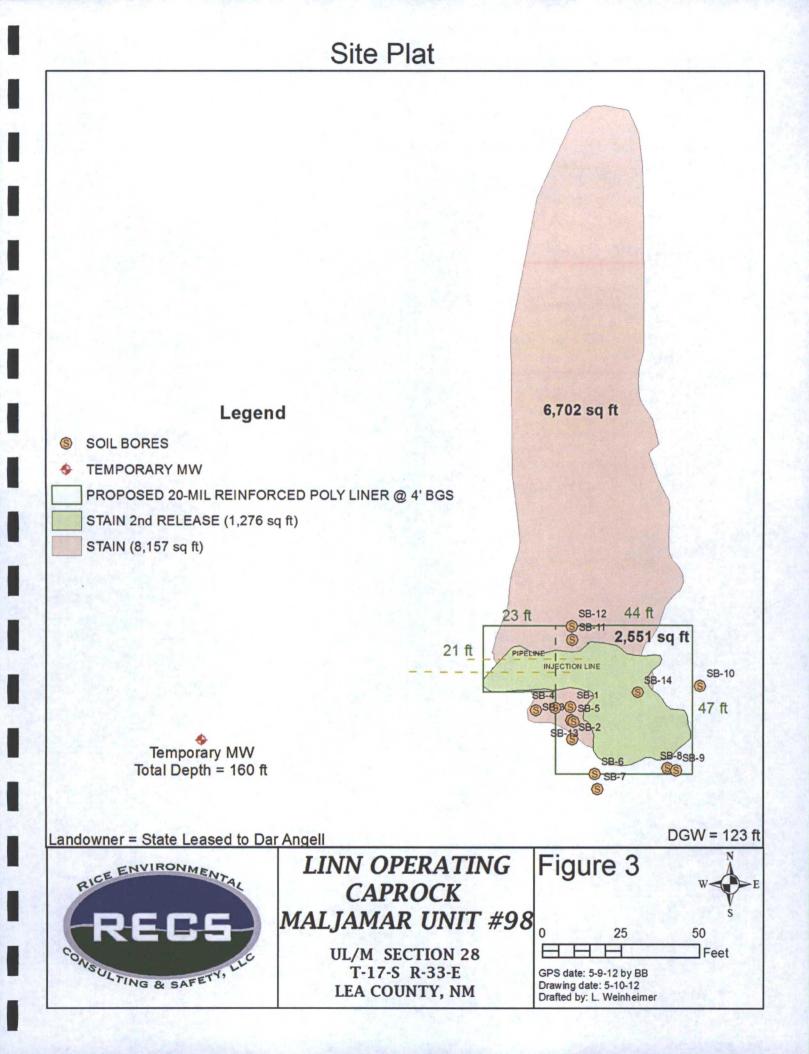
| Site | P | lat |
|------|---|-----|
|      |   |     |



# Site Plat

|  | SILE FIAL   |
|--|---|
| SB-1        SB-3          Depth        Cl-        PID        Depth        Cl-        PID          2        850        2.5        1        222        0.2          4        2690        0.9        2        536        0.4          6        5374        4.9        3        123        0.3          8        5303        6.5        4        117        0.5  | SB-9        SB-10          Depth        CI-        PID        Depth        CI-        PID        LAB        CI-          1        85        5.6        1        85        1.5        <16  |
| 10      7572      8.7        12      7838      4.1      SB-4        14      7784      7.1      Depth      CI-      PID      LAB      CI-        16      10143      6.3      1      883      0.3      880        18      12497      10      2      466      0.4        20      7364      8.2      3      141      0.2      32        22      5886      5.4      4      117      0.3      64        24      5393      3.8      26      4953      2.9      SB-5        28      6307      3.6      Depth      CI-      PID      LAB      CI-        30      4774      7.1      1      285      0.2 | SB-11<br>Depth CI- PID LAB CI-<br>1 1510 1.4<br>2 4241 1.6<br>3 5810 2.1 6160<br>4 1565 1.1<br>5 2336 2.7<br>6 184 1.2 48<br>7 151 2 48<br>SB-12  |
| 32      5185      9.6      2      4739      0      5200        34      6624      5.2      3      118      0.5      <16   | Depth CI- PID LAB CI-<br>1 627 1.4<br>2 5200 1 1020<br>3 3261 0.5<br>4 118 1.5 <16<br>5 140 2.4 <16   |
| 46        6912        9.2        2        3058        2.2          48        7922        10.2        3        6010        12.6          49        8006        7.4        4        6884        9.8          SB-7          SB-7          Depth        CI-        PID        LAB        CI-          1        1110        2.5        16        1        110        2.5        16          1        1114        0.2        2        121        17        16  | SB-13<br>Depth CI- PID LAB CI- GRO DRO<br>SS 1501 8.7<br>5 148 2.9<br>10 2816 5.1<br>15 3856 6.9 4440 <10 <10<br>20 2596 1.5<br>6,702 sq ft   |
| 1      1114      0.2      2      121      1.7      16        2      909      0.4      3      117      0.2      SB-8        4      142      0.4      Depth      Cl-      PID        1      1549      1.3      2      7161      11.4        3      6451      10.8      4      7791      14.3   | 25      1803      5.3        30      2623      4.7        35      1404      5.8        40      677      6.4        45      360      2.3        50      284      2.6        55      302      4.4        60      434      6.5        65      200      2.1      128      <10 |
| Legend   |   |
| S SOIL BORES   | Depth CI- PID LAB CI- GRO DRO   |
| TEMPORARY MW   | SS 3970 1.5<br>5 4697 2 SB-12<br>SSB-11   |
| STAIN 2nd RELEASE (1,276 sq ft)<br>STAIN (8,157 sq ft)   | 10 3919 3<br>15 7490 5.9 3840 <10 <10<br>20 4325 2.2<br>25 4468 4.2<br>26 4468 4.2<br>27 1 8<br>SB-14<br>SB-14<br>SB-10   |
| Temporary MW<br>Total Depth = 160 ft   | 30      4272      1.5        35      1151      3.3        40      543      3.9        45      1454      5.9        50      2056      5.1        55      365      0.8        60      218      2.9      128      <10  |
| _andowner = State Leased to Da   |   |
| RICE ENVIRONMENTAL   | LINN OPERATING Figure 2   |
| REGS   | CAPROCK<br>MALJAMAR UNIT #98 0 25 50  |
|  | UL/M SECTION 28 0 25 50   |
| CONSULTING & SAFETY, LLC   | T-17-S R-33-E GPS date: 5-9-12 by BB  |
| NG & SAFP  | LEA COUNTY, NM Drawing date: 5-10-12<br>Drafted by: L. Weinheimer   |

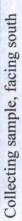
GPS date: 5-9-12 by BB Drawing date: 5-10-12 Drafted by: L. Weinheimer









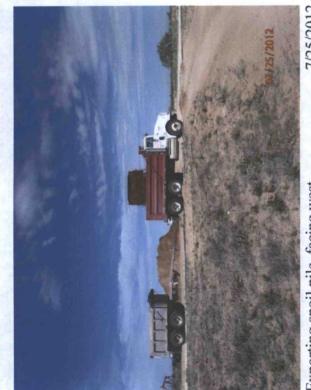


Collecting sample, facing south

5/1/2012



5/9/2012

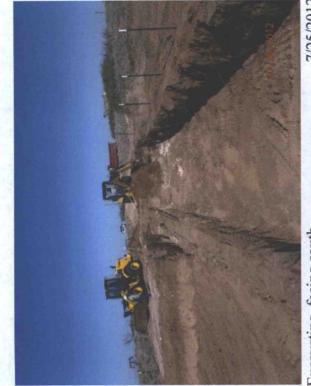


Exporting spoil pile, facing west

7/25/2012



7/31/2012



Excavating, facing south

7/25/2012



Backfilling above liner, facing north



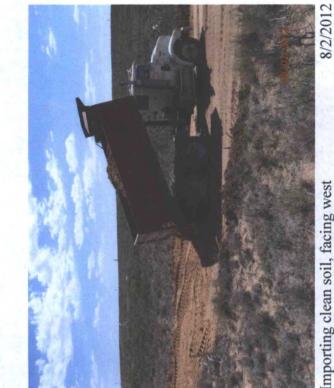
Seaming liner, facing east

8/1/2012



Backfilling site, facing south

8/2/2012







Site backfilled, facing north

8/3/2012



Site backfilled, facing south

8/3/2012





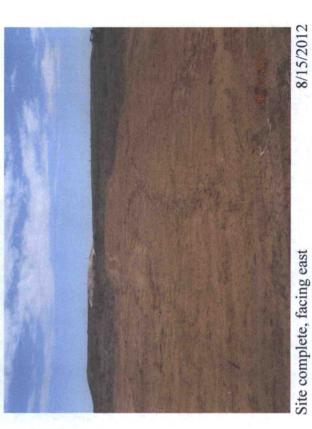
8/15/2012



1

Spreading seed, facing north

8/15/2012



#### Analytical Results For:

RICE ENVIRONMENTAL CONSULTING & SAFETY BRUCE BAKER 112 W. TAYLOR HOBBS NM, 88240 Fax To: (575) 397-1471

| Received:         | 05/04/2012           | Sampling Date:      | 05/01/2012    |
|-------------------|----------------------|---------------------|---------------|
| Reported:         | 05/10/2012           | Sampling Type:      | Soil          |
| Project Name:     | CAPROCK MALJAMAR #98 | Sampling Condition: | Cool & Intact |
| Project Number:   | NONE GIVEN           | Sample Received By: | Jodi Henson   |
| Project Location: | NOT GIVEN            |                     |               |
|                   |                      |                     |               |

#### Sample ID: POINT 1 @ SURFACE (H201024-01)

| Chloride, SM4500CI-B                | mg/kg | Analyzed By: AP |     |
|-------------------------------------|-------|-----------------|-----|
| The Property of the Internet of the |       |                 | 1.1 |

| Analyte  | Result | Reporting Limit | Analyzed   | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
|----------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Chloride | 18800  | 16.0            | 05/07/2012 | ND           | 400 | 100        | 400           | 7.69 |           |

#### Sample ID: POINT 1 @ 1.5' (H201024-02)

| Chloride, SM4500CI-B | mg/kg  |                 | Analyzed By: AP |              |     |            | the second second |      |           |
|----------------------|--------|-----------------|-----------------|--------------|-----|------------|-------------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed        | Method Blank | BS  | % Recovery | True Value QC     | RPD  | Qualifier |
| Chloride             | 192    | 16.0            | 05/07/2012      | ND           | 400 | 100        | 400               | 7.69 |           |

#### Sample ID: POINT 1 @ 2' (H201024-03)

| Chloride, SM4500CI-B | mg/kg      |               | Analyzed By: AP |              |     |            | A second second | 5 /8h / | Mark Street |
|----------------------|------------|---------------|-----------------|--------------|-----|------------|-----------------|---------|-------------|
| Analyte              | Result Rep | porting Limit | Analyzed        | Method Blank | BS  | % Recovery | True Value QC   | RPD     | Qualifier   |
| Chloride             | 240        | 16.0          | 05/07/2012      | ND           | 400 | 100        | 400             | 7.69    |             |

#### Sample ID: POINT 2 @ SURFACE (H201024-04)

| Chloride, SM4500Cl-B | mg     | /kg             | Analyzed By: AP |              |     |            | Ser Martin    | 191  | E. Starte |
|----------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed        | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 6480   | 16.0            | 05/07/2012      | ND           | 400 | 100        | 400           | 7.69 |           |

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

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Celeg D. Kune

Celey D. Keene, Lab Director/Quality Manager



#### Analytical Results For:

RICE ENVIRONMENTAL CONSULTING & SAFETY BRUCE BAKER 112 W. TAYLOR HOBBS NM, 88240 Fax To: (575) 397-1471

| Received:         | 05/04/2012           | Sampling Date:      | 05/01/2012    |  |
|-------------------|----------------------|---------------------|---------------|--|
| Reported:         | 05/10/2012           | Sampling Type:      | Soil          |  |
| Project Name:     | CAPROCK MALJAMAR #98 | Sampling Condition: | Cool & Intact |  |
| Project Number:   | NONE GIVEN           | Sample Received By: | Jodi Henson   |  |
| Project Location: | NOT GIVEN            |                     |               |  |
|                   |                      |                     |               |  |

#### Sample ID: POINT 2 @ 1.5' (H201024-05)

| Chloride, SM4500CI-B | mg/kg  |                 | Analyzed By: AP |              |     |            | 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1 | 2000 |           |
|----------------------|--------|-----------------|-----------------|--------------|-----|------------|--|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed        | Method Blank | BS  | % Recovery | True Value QC                            | RPD  | Qualifier |
| Chloride             | 32.0   | 16.0            | 05/07/2012      | ND           | 400 | 100        | 400                                      | 7.69 |           |

#### Sample ID: POINT 2 @ 2' (H201024-06)

| Chloride, SM4500CI-B | mg     | /kg             | Analyze    | d By: AP     |     |            | A CONTRACTOR  | and and |           |
|----------------------|--------|-----------------|------------|--------------|-----|------------|---------------|---------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank | BS  | % Recovery | True Value QC | RPD     | Qualifier |
| Chloride             | 160    | 16.0            | 05/07/2012 | ND           | 400 | 100        | 400           | 7.69    |           |

#### Sample ID: POINT 3 @ SURFACE (H201024-07)

| Chloride, SM4500Cl-B | mg/    | /kg             | Analyze    | d By: AP     |     |            | 1. 1. 1. 1. 1. 1. 1. | and the second |           |
|----------------------|--------|-----------------|------------|--------------|-----|------------|----------------------|----------------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank | BS  | % Recovery | True Value QC        | RPD            | Qualifier |
| Chloride             | 14600  | 16.0            | 05/07/2012 | ND           | 400 | 100        | 400                  | 7.69           |           |

#### Sample ID: POINT 3 @ 1.5 (H201024-08)

| Chloride, SM4500CI-B | mg     | /kg             | Analyze    | d By: AP     |     |            | 4             | 1.15 | A Mar Ray |
|----------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 288    | 16.0            | 05/07/2012 | ND           | 400 | 100        | 400           | 7.69 |           |

#### Sample ID: POINT 3 @ 2' (H201024-09)

| Chloride, S | M4500CI-B | mg     | /kg             | Analyze    | d By: AP     |     |            | and the second | de la compañía | and the second second |
|-------------|-----------|--------|-----------------|------------|--------------|-----|------------|----------------|----------------|-----------------------|
|             | Analyte   | Result | Reporting Limit | Analyzed   | Method Blank | BS  | % Recovery | True Value QC  | RPD            | Qualifier             |
| Chloride    |           | 80.0   | 16.0            | 05/07/2012 | ND           | 400 | 100        | 400            | 7.69           |                       |

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whitsoever shall be deemed walved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based on any of the above stated reasons or otherwise. Results relate only to the samples deemeded by Cardinal and to the reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

#### Analytical Results For:

RICE ENVIRONMENTAL CONSULTING & SAFETY BRUCE BAKER 112 W. TAYLOR HOBBS NM, 88240 Fax To: (575) 397-1471

| Received:         | 05/04/2012           | Sampling Date:      | 05/01/2012    |
|-------------------|----------------------|---------------------|---------------|
| Reported:         | 05/10/2012           | Sampling Type:      | Soil          |
| Project Name:     | CAPROCK MALJAMAR #98 | Sampling Condition: | Cool & Intact |
| Project Number:   | NONE GIVEN           | Sample Received By: | Jodi Henson   |
| Project Location: | NOT GIVEN            |                     |               |
|                   |                      |                     |               |

#### Sample ID: POINT 4 @ SURFACE (H201024-10)

| Chloride, SM4500CI-B | mg/    | /kg             | Analyze    | d By: AP     |     |            | and the       | 1. |           |
|----------------------|--------|-----------------|------------|--------------|-----|------------|---------------|--|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank | BS  | % Recovery | True Value QC | RPD                                      | Qualifier |
| Chloride             | 11600  | 16.0            | 05/07/2012 | ND           | 400 | 100        | 400           | 7.69                                     |           |

#### Sample ID: POINT 4 @ 4.5' (H201024-11)

| Chloride, SM4500CI-B | mg     | /kg             | Analyze    | d By: AP     |     |            |               |       |           |
|----------------------|--------|-----------------|------------|--------------|-----|------------|---------------|-------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| Chloride             | 640    | 16.0            | 05/07/2012 | ND           | 400 | 100        | 400           | 7.69  |           |
| TPH 8015M            | mg     | /kg             | Analyze    | d By: MS     |     |            | 1.15          | 1.0.5 |           |
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10           | <10.0  | 10.0            | 05/09/2012 | ND           | 193 | 96.5       | 200           | 1.03  |           |
| DRO >C10-C28         | 15.7   | 10.0            | 05/09/2012 | ND           | 184 | 92.0       | 200           | 3.04  |           |

57.6-158

Surrogate: 1-Chlorooctadecane 109 %

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

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Celeg D. Keine

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

| Project Runnaer:        В. Силсе:        B. силсе:        B. силсе:   | Company Name:   |   | P RECS   |                    |  |   |                                | 15                          | B  | BILL TO  | - 145 P   |                                |      |       | A    | ANALYSIS | YSIS   |            | REQUEST      |              |   | Π |
|--|---|---|--|--------------------|--|---|--------------------------------|-----------------------------|--|--|---|--------------------------------|------|-------|------|----------|--------|------------|--------------|--------------|---|---|
| 88240    Company:      88240    Attn:      88240    Address:      88240    Stubbe #:      88240    Stubbe #:      9    OIL      1    Address:      1    Addres      1    Addres <  | Project Manager   | 1   | Baker  |                    |  |   |                                | P.0                         | .#:  |  |   |                                |      |       |      |          |        |            | -            |              |   |   |
| 88240    Attn:      88240    Attn:      Address:    City:      City:    State:      State:    Zip:      State:   | Address:  |   |  |                    |  | -   |                                | ů                           | mpany:   |  |   |                                |      |       |      | SI       |        |            | -            |              |   |   |
| Address:      Address:      State:    Zip:      State:    Zip:      State:    Zip:      State:    Zip:      State:    Zip:      Solit    Phone #:      Address:    City:      Solit    Phone #:      Address:    Zip:      Solit    Solit      Address:    Zip:      Solit    Solit      Solit    Solit </td <td>city: Hobbs</td> <td></td> <td>State: NM</td> <td>Zil</td> <td>o: 88</td> <td>3240</td> <td></td> <td>Att</td> <td>ï</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>loi</td> <td></td> <td>-</td> <td>-</td> <td></td> <td></td> <td></td>  | city: Hobbs   |   | State: NM  | Zil                | o: 88  | 3240  |                                | Att                         | ï  |  |   |                                |      |       |      | loi      |        | -          | -            |              |   |   |
| State:    City:      State:    State:      State:      State:  <   | Phone #:  |   | Fax #:   |                    |  |   |                                | Ad                          | dress:   |  |   | _                              |      |       |      | u        |        | -          |              |              |   |   |
| State:    Zip:      Phone #:    Fax #:      Phone #:    Fax #:      Fax #:    Fax #:      Fax #:    GROUNDWATER      MATE    MATE      MATE    MASTEWATER      MATE    MASTEWATER      MATE    Stubde      Stubde    Stubde      Stube    Stube      Stude    Stube      Stude    Stude      Stude    Stude      Stude    Stude      Stude    Stude      Stude    Stude      Stude    Stude      Stude    Stude <tr< td=""><td>Project #:</td><td></td><td>Project Owne</td><td>Ľ</td><td></td><td></td><td></td><td>G</td><td></td><td></td><td></td><td>S</td><td>-</td><td></td><td>Н</td><td>//S</td><td></td><td></td><td></td><td></td><td></td><td></td></tr<>  | Project #:  |   | Project Owne   | Ľ                  |  |   |                                | G                           |  |  |   | S                              | -    |       | Н    | //S      |        |            |              |              |   |   |
| Phone #:      Fax #:      Fax #:      Rax #:      MATRIX      PRESERV      Sould      MATRIX      PRESERV      Sample      OTHER      MATRIX      PRESERV      Sample      OTHER      MATRIX      PRESERV      Sample      OTHER      Sample      Sample condition      Cool Intract      Matrix      Sample condition      Cool Intract      Cool Intract      Mathematic      Sample condition      Cool Intract      Mathematic      Mathematic      Sample condition      Checked BY:  | Project Name:   |   |  |                    |  |   |                                | Sta                         | te:  | Zip:   |   | səb                            |      | X     | Ч    | uc       |        |            |              |              |   |   |
| Fax #:      AndTRIX      PRESERV      Sample      MATRIX      PRESERV      Solid      T      T      T      T      T      T      T      T      T      Solid      Situble      Situble      Situble      Situble      Situble      Situble      Situble      Situble      Sample condition      Checker      Sample condition      Checker      Sample condition      Checker      Sample condition      Checker   | Project Location  | Caprock   | Maljamar:  |                    |  |   |                                | H                           | one #:   |  |   | oric                           |      | (E)   | S    | ati      | Sa     |            |              |              |   |   |
| MATRIX        PRESERV        SAMPLIN          AATRIX        ACOUTAINERS        AMPLIN          AMATRIX        ACOUTAINERS        SAMPLIN          SILUDGE        OIL        SILUDGE          AMATER        SILUDGE        SILUDGE          AMATER        SILUDGE        SILUT2          AMATER        SILUT2        SILUT2          AMATE  | Sampler Name:   | Kyle Norman   |  |                    |  |   |                                | Fa                          | c #:   |  |   | ŊЧ                             | 1.00 | LB    | ех   | С        | T      |            |              |              |   |   |
| Sample Condition<br>Cool Intract:<br>Cool Intract:<br>Coo | FOR LAB USE ONLY  |   |  | MP                 |  |   | IATRIX                         |                             | PRESER   |  | ING   | CI                             |      |       | эT   | ete      |        |            |              |              |   |   |
| #        0        50        0        50        0        51        12          1        1        5        5        5        5        11        5          1        1        5        5        5        11        5        5        11        2          1        5        5        5        5        5        5        11        2          1        5  | Lab I.D.  | Sampl   | e I.D.   | O(D) AO BAA(       | Contraction of the local division of the loc | ABTAWBTEA                                     | ור                             |                             | E/COOL   |  |   | least give                     |      |       |      | dmoJ     |        |            |              |              |   |   |
| 1    5/1/12        |   | Point 1 @ Surface   |  | 2) (C              | and the second se  | M   | 0                              | 9                           | DI   | 4,   |   | 1                              |      |       | T    | T        | T      | $\uparrow$ | +            |              |   | Τ |
| 1    V    5/1/12      1 <td< td=""><td></td><td>Point 1 @ 1.5'</td><td></td><td>C</td><td></td><td></td><td>1</td><td></td><td></td><td>5/1/12</td><td>10:10</td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>  |   | Point 1 @ 1.5'  |  | C                  |  |   | 1                              |                             |  | 5/1/12   | 10:10   | 1                              |      |       |      |          |        |            |              |              |   |   |
| 1    5/1/12        |   | Point 1 @ 2'  |  | C                  |  | - 1   | ~                              |                             | -  | 5/1/12   | 10:20   | 1                              |      |       |      |          |        |            |              |              |   |   |
| 1    5/1/12        | 7   | Point 2 @ Surface   |  | S                  | -  |   | ~                              |                             | +  | 5/1/12   | 10:30   | 1                              |      |       |      |          |        |            | _            |              |   |   |
| 1    5/1/12      1    5/1/12      1    5/1/12      1    5/1/12      1    5/1/12      1    5/1/12      1    5/1/12      1    5/1/12      1    5/1/12      1    5/1/12      1    5/1/12      1    5/1/12      1    5/1/12      1    5/1/12      1    5/1/12      1    5/1/12      1    5/1/12      5/1/12    5/1/  | N   | Point 2 @ 1.5'  |  | 5                  | 1  | -   | >                              |                             | -  | 5/1/12   | 10:35   | 7                              |      |       |      |          |        |            |              | -            |   |   |
| 1    5/1/12        | 1   | Point 2 @ 2'  |  | 5                  | -  |   | ~                              |                             |  | 5/1/12   | 10:40   | 7                              |      |       |      |          |        |            |              |              |   |   |
| 1    5/1/12      1    5/1/12      1    5/1/12      1    5/1/12      anising workfore based in contract of tast, shall be limited to the amount paint, work up and streated by Cardinal within 30 days after instantion. It have a streated by the contract of tast, shall be limited to the amount paint agradees of work within a based upon any of the above after after a service By:      Cool    Million      Cool    Initiact      Cool    Initiact      Pived By:    Cool   |   | Point 3 @ Surface   |  | 3                  | -  |   | ~                              |                             |  | 5/1/12   | 10:50   | 1                              |      |       |      |          |        |            | -            | and an frame |   |   |
| 1    5/1/12      1    5/1/12      ansag whether based in contract or tax, that the innext of a two amount panel was a protein and ansage and the panel of the amount panel ansage and the panel of the amount panel of the amou  |   | Point 3 @ 1.5'  |  | 5                  | -  |   | ~                              |                             |  | 5/1/12   | 10:55   | >                              |      |       |      |          |        |            | and a series |              | - |   |
| 1    5/1/12      ansing worker based in contact at that the interfact of the anomatic paint and the interpret interpret in the set of the contact at that the interfact of the anomatic paint and the interfact of the interfact of the anomatic paint and the interfact of the intervact of the interfact of the intervact   |   | Point 3 @ 2'  |  | 5                  | -  | -   | ~                              | -                           |  | 5/1/12   | 11:00   | 1                              |      |       |      |          |        |            |              |              |   |   |
| a ming ender bestell a contract and the humble of the amount pairs put<br>minition, business internet pairs in track the function of the amount pairs pro-<br>minition, business internetions, how of sac, or loss of profix memory of the<br>regarders of veryflers such atom is based upon any of the above abund main<br>counter By:  | 0   | Point 4 @ Surfa   | ace  | 5                  | -  | -   |                                | -                           | -  | 5/1/12   | 11:10   | 7                              |      |       |      |          |        |            | -            | _            |   |   |
| Ceived By:<br>Ceived By:<br>Ceived By:<br>Sample Condition CHECKED BY:<br>Cool Intact<br>P Ves E Ves   | PLEASE NOTE: Liability an<br>analyses, All chains includin<br>service. In no event shall Ca | d Durmages. Cardinal's fability<br>g thote for negligence and any<br>rdinal be flabbe for incidental or | and client's exclusive temedy for<br>r other cause whatsoever shall be<br>r consequental damages, includir | any cla<br>e deemo |  | ing whether bred unless mar<br>ation, busines | te in writing<br>i interruptio | ract or tor<br>and receipe. | , shall be limits<br>wed by Cardina<br>use, or loss of | d to the amount p<br>I within 30 days a<br>profits mourred b | aid by the client to<br>ther completion of t<br>/ client, its subsidi | or the<br>the applic<br>aries. | able |       |      |          |        |            |              |              |   |   |
| Circle One) Condition CHECKED BY:<br>Bus - Other: Bus - Other: Cool Intact   | Relinquished By   | g out of or related to the period   | Date:  | R                  | oceiv  | ved By:                                       | A 100                          | 1VI                         | A upon any or  | the above stated   |   | ilt:                           |      |       | 1.1  | Add'I P  | hone # |            |              |              |   |   |
| Circle One) Condition CHECKED BY:<br>Time: Sample Condition CHECKED BY:<br>Cool Intact (Initialis)<br>Bus - Other: Cool Intact (Initialis)   | halad   | 1   | TUP: 25  | ~                  | 2  | R   | 2                              | 12K                         | MA   | 10   | REMARK  | ::                             |      | 1     | 1    |          |        |            |              |              |   |   |
| Sample Condition CHECKED BY:<br>Cool Intact (IntiAls)  | Reling Wished By  |   | Date:  | <sup>m</sup>       | cei  | ved By:                                       |                                |                             |  |  | email   | resi                           | alts |       | 200  |          |        |            |              |              |   |   |
| Sample Condition CHECKED BY:<br>Cool Intact (Intibilis)<br>CYees Yees  |   |   | Time:  | -                  |  |   |                                |                             |  |  |   |                                |      | 2-9-0 | 100- |          |        |            | -            |              |   |   |
|  | Delivered By:<br>Sampler - UPS  | (Circle One)<br>- Bus - Other:  |  |                    | 1.00   |   | lintac<br>es Entrac            | dition<br>(es               | CHEO   | KED BY:  | Lwein   | er@                            | ner@ | orice | ecs. | com      | Jaer   |            | ecs.         | com;         |   |   |

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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| company maine.   | RECS  | BILL TO   | . TO   | 翻                                    |   |              | A            | ANALYSIS                      | SIS REQUEST  |
|--|---|---|--|--------------------------------------|---|--------------|--------------|-------------------------------|--|
| Project Manager: Bruce, Baker  |   | P.O.#:  |  |                                      |   | -            | -            | 4                             |  |
| Address:   |   | Company:  |  |                                      |   |              |              | SL                            |  |
| city: Hobbs st   | State: NM Zip: 88240  | Attn:   |  | 1                                    |   |              |              |                               |  |
| Phone #: Fax #:  | #   | Address:  |  |                                      | -   |              | _            | u                             |  |
| Project #: Pro   | Project Owner:  | City:   |  | 5                                    | M   |              | _            | 1/5                           |  |
| Project Name:  |   | State: Zi   | Zip:   | səp                                  | 91  |              | Ъ            | _                             |  |
| Project Location: Caprock Maliannar  | nar # 98  | Phone #:  |  | ric                                  |   | ( <u></u> ]. |              | oite<br>SC                    |  |
|  |   | Fax #:  |  | oju                                  | -   | _            | _            | -                             | 11   |
| FOR LAB USE ONLY   | MATRIX  | RESERV.   | SAMPLING   | CI                                   | _   |              | _            | Ð,                            |  |
| Lab I.D. Sample I.D.<br>1/201024   | (G)RAB OR (C)OMP.<br># CONTAINERS<br>GROUNDWATER<br>SOIL<br>SOIL<br>OIL | SLUDGE<br>OTHER :<br>ACID/BASE:<br>OTHER :<br>OTHER :   | DATE   |                                      | L   |              |              | Complet                       |  |
| -  | 1 1 1   |   | 1  | 1                                    |   |              | +            |                               |  |
| Foint 4 @ 4.3  | •   |   | 21/1/6   |                                      | >   |              |              |                               |  |
| LEASE MOTE: Lability and Damages. Cardinal's keekly and clerifs enclasive remerky for any clair    | uke remedy for any claim arting whether based in contract of for.       | ntect of text, schall be inniced to the an  | e amount paid by the client for the  | tion the                             |   |              |              |                               |  |
| g those for negligence and a<br>rolinal be liable for incidental<br>g out of or rolated to the per | waived unle<br>imitation, b<br>egardets o                               | sis made in writing and received by Cardinal within 20 days after completion of the app<br>usinene situation profess, using or days, or long at profile structured by placing its autiditaries. | 1.30 days after completion incurred by client, its subs<br>incurred by client, its subs<br>ove stated reasons or other | of the applica<br>idiaries<br>rwise. | able  |              |              |                               |  |
| [  | HAZ Ree   | Henden  | Phone Result<br>Fax Result:<br>REMARKS:  | Result:<br>sult:<br>KS:              | D Yes   | No<br>No     |              | Add'l Phone #<br>Add'l Fax #: | ne #:<br>#:  |
| Relinguished By: Date: Time:   | e: Rejõelved By:  |   | Knor   | email results<br>Knorman@ri          | email results<br>Knorman@rice-ecs.com                 | ecs.         | com          |                               |  |
| Delivered By: (Circle One)<br>Sampler - UPS - Bus - Other:   | Sample Condition<br>Cool Intact<br>Des Bryes                            | ndition CHECKED BY:<br>cc<br>Yes<br>No  |  | ker@r<br>inhein                      | Bbaker@rice-ecs.com; hcor<br>Lweinheimer@rice-ecs.com | ice-e        | m; h<br>cs.c | cond                          | Bbaker@rice-ecs.com; hconder@rice-ecs.com;<br>Lweinheimer@rice-ecs.com |

Page 7 of 7

# CARDINAL

#### Analytical Results For:

RICE ENVIRONMENTAL CONSULTING & SAFETY BRUCE BAKER 112 W. TAYLOR HOBBS NM, 88240 Fax To: (575) 397-1471

| Received:         | 05/18/2012           | Sampling Date:      | 05/17/2012    |  |
|-------------------|----------------------|---------------------|---------------|--|
| Reported:         | 05/22/2012           | Sampling Type:      | Soil          |  |
| Project Name:     | CAPROCK MALJAMAR #98 | Sampling Condition: | Cool & Intact |  |
| Project Number:   | NONE GIVEN           | Sample Received By: | Jodi Henson   |  |
| Project Location: | NOT GIVEN            |                     |               |  |
|                   |                      |                     |               |  |

#### Sample ID: SB 4 @ 1' (H201111-01)

| Chloride, SM4500CI-B | mg,    | /kg             | Analyze    | d By: AP     |     |            | C. C. Carlo   | 8 . · · · · · |           |
|----------------------|--------|-----------------|------------|--------------|-----|------------|---------------|---------------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank | BS  | % Recovery | True Value QC | RPD           | Qualifier |
| Chloride             | 880    | 16.0            | 05/21/2012 | ND           | 416 | 104        | 400           | 0.00          |           |

#### Sample ID: SB 4 @ 3' (H201111-02)

| Chloride, SM4500CI-B | mg,    | /kg             | Analyze    | d By: AP     |     |            |               |      | 1         |
|----------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 32.0   | 16.0            | 05/21/2012 | ND           | 416 | 104        | 400           | 0.00 |           |

#### Sample ID: SB 4 @ 4' (H201111-03)

| Chloride, SM4500CI-B | mg/kg  |                 | · Analyzed By: AP |              |     |            |               |      |           |
|----------------------|--------|-----------------|-------------------|--------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed          | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 64.0   | 16.0            | 05/21/2012        | ND           | 416 | 104        | 400           | 0.00 |           |

#### Sample ID: SB 5 @ 2' (H201111-04)

| Chloride, SM4500CI-B | mg/    | /kg             | Analyze    | d By: AP     |     |            | and the state | the second second |           |  |
|----------------------|--------|-----------------|------------|--------------|-----|------------|---------------|-------------------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank | BS  | % Recovery | True Value QC | RPD               | Qualifier |  |
| Chloride             | 5200   | 16.0            | 05/21/2012 | ND           | 416 | 104        | 400           | 0.00              |           |  |

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

# CARDINAL

#### Analytical Results For:

RICE ENVIRONMENTAL CONSULTING & SAFETY BRUCE BAKER 112 W. TAYLOR HOBBS NM, 88240 Fax To: (575) 397-1471

| Received:         | 05/18/2012           | Sampling Date:      | 05/17/2012    |
|-------------------|----------------------|---------------------|---------------|
| Reported:         | 05/22/2012           | Sampling Type:      | Soil          |
| Project Name:     | CAPROCK MALJAMAR #98 | Sampling Condition: | Cool & Intact |
| Project Number:   | NONE GIVEN           | Sample Received By: | Jodi Henson   |
| Project Location: | NOT GIVEN            |                     |               |
|                   |                      |                     |               |

#### Sample ID: SB 5 @ 3' (H201111-05)

| Chloride, SM4500CI-B | mg/kg  |                 | Analyzed By: AP |              |     |            |               | 1.   |           |
|----------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed        | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | <16.0  | 16.0            | 05/21/2012      | ND           | 416 | 104        | 400           | 0.00 |           |

#### Sample ID: SB 5 @ 4' (H201111-06)

| Chloride, SM4500CI-B | mg     | /kg             | Analyze    | Analyzed By: AP |     |            |               | the second |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD        | Qualifier |
| Chloride             | 32.0   | 16.0            | 05/21/2012 | ND              | 416 | 104        | 400           | 0.00       |           |

#### Sample ID: SB 7 @ 1' (H201111-07)

| Chloride, SM4500CI-B | mg     | /kg             | Analyzed By: AP |              |     |            |               | _    | and the second |
|----------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|----------------|
| Analyte              | Result | Reporting Limit | Analyzed        | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier      |
| Chloride             | 16.0   | 16.0            | 05/21/2012      | ND           | 416 | 104        | 400           | 0.00 |                |

#### Sample ID: SB 7 @ 2' (H201111-08)

| Chloride, SM4500CI-B |  | mg/kg  |                 | Analyzed By: AP |              |     |            | 1             | 1    | 25.0 5 4.4 |
|----------------------|--|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|------------|
| Analyte              |  | Result | Reporting Limit | Analyzed        | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier  |
| Chloride             |  | 16.0   | 16.0            | 05/21/2012      | ND           | 416 | 104        | 400           | 0.00 |            |

#### Sample ID: SB 10 @ 1' (H201111-09)

| Chloride, Sl | M4500CI-B | mg/    | 'kg             | Analyzed By: AP |              |     |            |               | 1.1.1.2 | A set the |
|--------------|-----------|--------|-----------------|-----------------|--------------|-----|------------|---------------|---------|-----------|
|              | Analyte   | Result | Reporting Limit | Analyzed        | Method Blank | BS  | % Recovery | True Value QC | RPD     | Qualifier |
| Chloride     |           | <16.0  | 16.0            | 05/21/2012      | ND           | 416 | 104        | 400           | 0.00    |           |

#### **Cardinal Laboratories**

\*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

# CARDINAL

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

#### Analytical Results For:

RICE ENVIRONMENTAL CONSULTING & SAFETY BRUCE BAKER 112 W. TAYLOR HOBBS NM, 88240 Fax To: (575) 397-1471

| Received:         | 05/18/2012           | Sampling Date:      | 05/17/2012    |
|-------------------|----------------------|---------------------|---------------|
| Reported:         | 05/22/2012           | Sampling Type:      | Soil          |
| Project Name:     | CAPROCK MALJAMAR #98 | Sampling Condition: | Cool & Intact |
| Project Number:   | NONE GIVEN           | Sample Received By: | Jodi Henson   |
| Project Location: | NOT GIVEN            |                     |               |
|                   |                      |                     |               |

#### Sample ID: SB 10 @ 2' (H201111-10)

| Chloride, SM4500CI-B | mg,    | /kg             | Analyzed By: AP |              |     |            |               |      |           |
|----------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed        | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 128    | 16.0            | 05/21/2012      | ND           | 416 | 104        | 400           | 0.00 |           |

#### Sample ID: SB 11 @3' (H201111-11)

| Chloride, SM4500CI-B | mg/kg  |                 | Analyzed By: AP |              |     |            | 1             |      |           |
|----------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed        | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 6160   | 16.0            | 05/21/2012      | ND           | 416 | 104        | 400           | 0.00 |           |

#### Sample ID: SB 11 @ 6' (H201111-12)

| Chloride, SM4500CI-B | mg     | /kg             | Analyzed By: AP |              |     |            | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 1 Same | Mr. HAR   |
|----------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------------------------------|--------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed        | Method Blank | BS  | % Recovery | True Value QC                         | RPD    | Qualifier |
| Chloride             | 48.0   | 16.0            | 05/21/2012      | ND           | 416 | 104        | 400                                   | 0.00   |           |

#### Sample ID: SB 11 @ 7' (H201111-13)

| Chloride, SM4500CI-B | mg     | /kg             | Analyze    | d By: AP     |     |            | A Second Ma   | 1.1  | in the    |
|----------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 48.0   | 16.0            | 05/21/2012 | ND           | 416 | 104        | 400           | 0.00 |           |

#### Sample ID: SB 12 @ 2' (H201111-14)

| Chloride, SM4500CI-B | mg,    | /kg             | Analyze    | d By: AP     |     |            |               | 1.1.1.1 | 11 A 12   |
|----------------------|--------|-----------------|------------|--------------|-----|------------|---------------|---------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank | BS  | % Recovery | True Value QC | RPD     | Qualifier |
| Chloride             | 1020   | 16.0            | 05/21/2012 | ND           | 416 | 104        | 400           | 0.00    |           |

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

#### Analytical Results For:

RICE ENVIRONMENTAL CONSULTING & SAFETY BRUCE BAKER 112 W. TAYLOR HOBBS NM, 88240 Fax To: (575) 397-1471

| Received:         | 05/18/2012           | Sampling Date:      | 05/17/2012    |
|-------------------|----------------------|---------------------|---------------|
| Reported:         | 05/22/2012           | Sampling Type:      | Soil          |
| Project Name:     | CAPROCK MALJAMAR #98 | Sampling Condition: | Cool & Intact |
| Project Number:   | NONE GIVEN           | Sample Received By: | Jodi Henson   |
| Project Location: | NOT GIVEN            |                     |               |

#### Sample ID: SB 12 @ 4' (H201111-15)

| Chloride, SM4500CI-B | mg     | /kg             | Analyze    | d By: AP     |     | 1          | 1             | 1.1.2 |           |
|----------------------|--------|-----------------|------------|--------------|-----|------------|---------------|-------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| Chloride             | <16.0  | 16.0            | 05/21/2012 | ND           | 416 | 104        | 400           | 0.00  |           |

#### Sample ID: SB 12 @ 5' (H201111-16)

| Chloride, SM4500CI-B | mg/l   | kg              | Analyze    | d By: AP     |     |            |               | -    |           |
|----------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | <16.0  | 16.0            | 05/21/2012 | ND           | 416 | 104        | 400           | 0.00 |           |

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#### \*=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

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Page 7 of 8

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

| -1/1 Runnadowneria  | 52   | BILL TO   |  |           | A    | ANALYSIS     | S REQUEST   |  |
|---|--|---|--|-----------|------|--------------|---|--|
| Project Manager: Bruce Baker  |  | P.O. #:   |  |           |      |              |   |  |
| Address:  |  | Company:  |  |           |      | SL           |   |  |
| City: Hobbs st  | State: NM Zip: 88240   | Attn:   |  |           |      | JOI          |   |  |
| Phone #: Fax  | Fax #:   | Address:  |  |           |      | iu/          |   |  |
| Project #: Pro  | Project Owner:   | city:   | 5  | M         | Н    | //S          |   |  |
| Project Name:   |  | State: Zip:   | səl  |           | d    |              |   |  |
| Project Location: Cuprock Mai   | 1 arrar # 48   | Phone #:  | orio   | E)        | LS   | oite<br>SC   |   |  |
| Sampler Name: Kyle Norman   |  | Fax #:  | oju  | -         | ex   |              |   |  |
| FOR LAB USE ONLY  | MATRIX   | PRESERV. SAMPLING   |  | -         | (ə]  | 9ĵ           |   |  |
| Lab I.D. Sample I.D.  | 9MO(2) 9O 8.<br>SABNIATI<br>SATAWONI<br>SATAWONI   | 200L<br>BASE:   |  | T         | _    | aldmoC       |   |  |
| HZDHII  | 109 ¥  |   | TIME   |           |      | )            |   |  |
| -1 SB 4 @ 1'  |  | 1   | 1 24%  |           |      | $\vdash$     |   |  |
| · 2 5By @ 3'  | Gall 1   | 1 5-171   | 10'00 1.   |           |      |              |   | Annual manual Manufactures and   |
| 3584 6 4'   | Ci I I   | 1. 51772  | 10:30 1  |           |      |              |   |  |
| 4 SB5 @ 2' 1  | i i j  | 1, 5-1#2  | 12,00 1,   |           |      |              |   |  |
| 5 SA5 & 3'  | 6 1 1  | 11-21-21  | 11: 51:21  |           |      |              |   |  |
| 10 SB50 4'  | 2  | V, 5.17-12  | 12,30 V,   |           |      |              |   |  |
| 5870 1'   | 5  | 1 54742   | 1:00 11  |           |      |              |   |  |
| 6 SB 70 2'  |  | 1 54742   | 1:15 11  |           |      |              |   |  |
| 9 5810 @ 1  | 2-2  | 11 517-12   | 2:30 11  |           |      |              |   |  |
| 10 58 10 62'  |  | V 5-17-2  | 2:45 1   | _         |      | -            |   |  |
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| service. In no event shall cardinal be apple of incrementa or consequenta<br>affiliates or successions arising out of or related to the performance of serv   | ar darrages, including without immation, outsives interruptions, in<br>vices hereunder by Cardinal, regardless of whether such claim i | ass of use, of uses of proats incurred by di<br>based upon any of the above stated rea  | incurred by citent, its blosigliaries<br>We stated reasons of otherwise. |           | 1    |              |   |  |
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| Sampler - UPS - Bus - Other:  | Cool Intact<br>Cool Intact<br>Ves Ves  |   | Lweinheimer@rice-ecs.com   | ler@rice  | -ecs | com          | )   |  |
|   |  | or and have   |  |           |      |              |   |  |

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Page 8 of 8

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

|   | B8240    P.O. #:      68240    Attn::      58240    Attn::      Company::    Company::      City:    State::      State::    Zip::      Solid    OIL      Actio/BASE:    Actio/BASE:      Actio/BASE:    Actio/BASE:      Actio/BASE:    Sample:      Actio/BASE:    Situde:      Base:    Situde:      Base:    Situde:      Base:    Situde:      Base:    Situde:      Base:    Situde:      Cool    Actio/Base:      Base:    Situde:      Base:    Situde:      Base:    Situde:      Base:    Situde:      Base:    Situde:      Base:    Situde:  | Company Name: REC  | 5  | 13/171 KO   |   |       | ANALYSIS               | SIS REQUEST       |   |
|---|--|--|--|---|---|-------|------------------------|-------------------|---|
| 88240    Company:      88240    Attn::      88240    Attn::      88240    Attn::      State::    City::      State::    Zip::   | 88240    Company:      88240    Attn::      88240    Attn::      88240    Attn::      State::    Zip::      State::    Zip::      State::    Zip::      State::    Zip::      Address::    Zip::      State::    Zip::      Address::    Zip::      State::    Zip::   S   | 1  |  | P.O.#:  |   |       |                        |                   |   |
| 88240    Attn:      88240    Attn:      City:    State:      City:    State:      State:    State:      Solic    OIL      Solic    OIL      Solic    Solic      S   | 88240    Attn:      88240    Attn:      City:    City:      State:    Zip:      State:    Zip:      State:    Zip:      Phone #:    Phone #:      Phone #:    Zip:      State    State      Phone #:    Zip:      Phone #:    Zip:      Phone #:    Zip:      Phone #:    Zip:      Phone #:    State      Phone #:    Phone Phone      Phone #:    Zip:   | 2  |  | Company:  |   |       | S                      |                   |   |
| Address:      State:    Zip:      State:    Zip:      State:    Zip:      State:    Zip:      State:    Zip:      State:    Zip:      Address:    Phone #:      Phone #:    Phone #:      AnTRX    Preserve      MATRX    Phone #:      Solid    GROUNDWATER      MATRX    SamPLING      OIL    SAMPLING      Solid    Solid      Solid    Color/saste      Solid    SamPle      Single    Sample      Cool finade    Single      Single    Single      Sing  | Address:      State:    Zip:      State:    Zip:      State:    Zip:      State:    Zip:      State:    Zip:      Phone #:    Phone #:      Phone #:    Zip:      Phone #:    Zip:      Solid    Oil      Solid    Oil      Solid    Oil      Solid    Solid      Solid    Solid <td>city: Hobbs</td> <td>Zip:</td> <td>Attn:</td> <td></td> <td>_</td> <td>uo</td> <td></td> <td></td>  | city: Hobbs  | Zip:   | Attn:   |   | _     | uo                     |                   |   |
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| Circle One) Condition CHECKED BY:<br>Condition   | Circle One)<br>Bus - Other:<br>Bus - Other:<br>Received By:<br>Cool finate<br>Cool finate<br>No P No<br>No P No<br>No<br>No P No<br>No<br>No<br>No<br>No<br>No<br>No<br>No<br>No<br>No   | Relinquished By:   |  |   | ult: 1 Yes  | on No | Add'l Pho<br>Add'l Fax | one #:<br>x #:    |   |
|   | Cardinal cannot accept verbal changes. Please fax  | Relinquished By:<br>Relinquished By:<br>Delivered By: (Circle C<br>Sampler - UPS - Bus - O   | Date: 212 Received   | N In  | email results<br>Knorman@rice-e<br>Bbaker@rice-ec<br>Lweinheimer@ric                    | s.com | m<br>1; hcon<br>8.com  | ider@rice-ecs.com | 2 |

#### Analytical Results For:

RICE ENVIRONMENTAL CONSULTING & SAFETY BRUCE BAKER 112 W. TAYLOR HOBBS NM, 88240 Fax To: (575) 397-1471

| Received:         | 06/13/2012           | Sampling Date:      | 06/11/2012    |
|-------------------|----------------------|---------------------|---------------|
| Reported:         | 06/18/2012           | Sampling Type:      | Soil          |
| Project Name:     | CAPROCK MALJAMAR #98 | Sampling Condition: | Cool & Intact |
| Project Number:   | NONE GIVEN           | Sample Received By: | Jodi Henson   |
| Project Location: | NOT GIVEN            |                     |               |

#### Sample ID: SB 13 @ 15' (H201329-01)

Chloride, SM4500CI-B mg/kg Analyzed By: AP Method Blank RPD Qualifier Analyte Result Reporting Limit Analyzed BS % Recovery True Value QC Chloride 4440 16.0 06/15/2012 ND 416 104 400 3.77 **TPH 8015M** Analyzed By: MS mg/kg Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier GRO C6-C10 <10.0 10.0 06/14/2012 ND 177 88.7 200 6.72 06/14/2012 87.9 DRO >C10-C28 <10.0 10.0 ND 176 200 8.73 Surrogate: 1-Chlorooctane 93.6% 65.2-140 Surrogate: 1-Chlorooctadecane 109 % 63.6-154

#### Sample ID: SB 13 @ 65' (H201329-02)

| Chloride, SM4500CI-B          | mg     | /kg             | Analyze    | d By: AP     | _   |            | a reading to  | 10.19 | 10000     |
|-------------------------------|--------|-----------------|------------|--------------|-----|------------|---------------|-------|-----------|
| Analyte                       | Result | Reporting Limit | Analyzed   | Method Blank | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| Chloride                      | 128    | 16.0            | 06/15/2012 | ND           | 416 | 104        | 400           | 3.77  |           |
| TPH 8015M                     | mg     | /kg             | Analyze    | d By: MS     |     |            | in the        | See.  |           |
| Analyte                       | Result | Reporting Limit | Analyzed   | Method Blank | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10                    | <10.0  | 10.0            | 06/14/2012 | ND           | 177 | 88.7       | 200           | 6.72  |           |
| DRO >C10-C28                  | <10.0  | 10.0            | 06/14/2012 | ND           | 176 | 87.9       | 200           | 8.73  |           |
| Surrogate: 1-Chlorooctane     | 92.4   | % 65.2-14       | 0          |              |     |            |               | a ha  |           |
| Surrogate: 1-Chlorooctadecane | 110    | % 63.6-15       | 4          |              |     |            |               |       |           |

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#### \*=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

#### Analytical Results For:

RICE ENVIRONMENTAL CONSULTING & SAFETY BRUCE BAKER 112 W. TAYLOR HOBBS NM, 88240 Fax To: (575) 397-1471

| Received:         | 06/13/2012           | Sampling Date:      | 06/11/2012    |
|-------------------|----------------------|---------------------|---------------|
| Reported:         | 06/18/2012           | Sampling Type:      | Soil          |
| Project Name:     | CAPROCK MALJAMAR #98 | Sampling Condition: | Cool & Intact |
| Project Number:   | NONE GIVEN           | Sample Received By: | Jodi Henson   |
| Project Location: | NOT GIVEN            |                     |               |
|                   |                      |                     |               |

### Sample ID: SB 13 @ 70' (H201329-03)

| Chloride, SM4500CI-B          | mg/    | kg              | Analyze    | d By: AP     |     |            |               | dimension of | 17        |
|-------------------------------|--------|-----------------|------------|--------------|-----|------------|---------------|--------------|-----------|
| Analyte                       | Result | Reporting Limit | Analyzed   | Method Blank | BS  | % Recovery | True Value QC | RPD          | Qualifier |
| Chloride                      | 160    | 16.0            | 06/15/2012 | ND           | 416 | 104        | 400           | 3.77         |           |
| TPH 8015M                     | mg/    | kg              | Analyze    | d By: MS     | 7 9 |            |               |              | R. Hann   |
| Analyte                       | Result | Reporting Limit | Analyzed   | Method Blank | BS  | % Recovery | True Value QC | RPD          | Qualifier |
| GRO C6-C10                    | <10.0  | 10.0            | 06/14/2012 | ND           | 177 | 88.7       | 200           | 6.72         |           |
| DRO >C10-C28                  | <10.0  | 10.0            | 06/14/2012 | ND           | 176 | 87.9       | 200           | 8.73         |           |
| Surrogate: 1-Chlorooctane     | 94.4 9 | 65.2-14         | 0          | 1.1          |     |            |               |              |           |
| Surrogate: 1-Chlorooctadecane | 112 %  | 63.6-15         | 4          |              |     |            |               |              |           |

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 3 of 5

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

| Company Name:  | Entering RFCS  |  | L TJIB   | BILL TO   | 28.                                      |                |          | ANAI                        | ANALYSIS                       | REQUEST                                   |   | Г             |
|--|--|--|--|---|--|----------------|----------|-----------------------------|--------------------------------|---|---|---------------|
| Project Manager:   | are Baker  |  | P.O.#:   |   |  |                | -        |                             |                                |   |   |               |
| Address:   |  |  | Company:   |   |  |                | -        | S                           |                                | -   | -   |               |
| City:  | State: NM  | Zip:   | Attn:  |   |  | -              |          | uo                          |                                |   |   |               |
| Phone #:   | Fax #:   |  | Address:   |   |  |                |          | IU}                         |                                |   |   | -             |
| Project #:   | Project Owner:   | er:  | City:  |   | 5  | M              | H        |                             |                                |   |   |               |
| Project Name:  |  |  | State:   | Zip:  | səp                                      |                |          |                             |                                |   |   |               |
| Project Location:  | Capar & Malianar #   | おいま  | Phone #:   |   | )ric                                     |                | E S      |                             | SC                             |   |   |               |
| Sampler Name: Kyle Norman  | vle Norman   |  | Fax #:   |   | oju                                      |                |          |                             |                                | ~   |   | Care Arian    |
| FOR LAB USE ONLY   |  | MATRIX   | IX PRESERV.  | SAMPLING  | CI                                       | -Id            | (Ə]      |                             |                                |   |   | -             |
| Lab I.D.<br>H201329  | Sample I.D.  | (G)RAB OR (C)OMP<br># Contriners<br>Groundwater<br>Wastewater<br>Soil<br>Soil  | OTHER :<br>OTHER :<br>ACID/BASE:<br>COL<br>OTHER :<br>OTHER :<br>OTHER :                                     | DATE  |  | T              | -        | Somple                      |                                |   |   |               |
|  | 5813 @ 15'   | 6i 1 1   | 1/   | 6-11-12 2.00  | 1  | 1              | _        |                             |                                |   |   |               |
| 2  | 013 60 66'   | 1 1 2  |  | 1-11-2 9:45   | 11                                       | 1              |          |                             |                                |   |   |               |
| 200  | 13 6   |  | 1  | 11-12   | >  | 1              |          |                             |                                |   |   |               |
|  |  |  |  |   |  |                |          |                             |                                |   |   |               |
|  |  |  |  |   |  |                |          |                             |                                |   |   |               |
| PLEASE NOTE: Labitity and D<br>malyses. All claims including th<br>inverses. In no event shall Cardin<br>militane. | LEASE NOTE: Lability and Demages. Cardinal's lability and client's exclusive temeory for any claim aining whether based in contract or tot, ahall, be finited to the amount paid by the client for the number of the temperature of tempe | r any claim arising whether based in contract or tort, shall the demand waived unless made in writing and received by on writional manuals interruptions, use or use or no writing the second demands interruptions. | contract or tort, what be limited<br>titing and received by Durdinal v<br>prions, loss of use, or logs of pr | ing whether byfaed in contract or tort, wheth be limited to the amount paid by the client for his<br>our dresses made by writing and received by Durdinal within 30 draw after completion of the a<br>satisfy, business interruptions, loss of use of paids of pains incurred by client, its subdisting-<br>satisfy, business interruptions, loss of use of paids of pains incurred by client, its subdisting-<br>tions of the advector of the subdisting to the advector of the advector of the advector of the advector<br>of the advector of the advector of the of the advector of the ad | for the<br>of the applicable<br>diaries. |                |          |                             |                                |   |   | 1             |
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| Relinquished By:   | R  | Received By:   | DENLE  | HA kjone  | kjones@rices                             | ts<br>eswd.    | com;     | knoi                        | man                            | kjones@riceswd.com; knorman@rice-ecs.com; | s.com;  | - Contraction |
| > 0-   | (Idircle One)<br>- Bus - Other:  | Cool Intact<br>Cool Intact   | tion CHE   |   | der@I                                    | rice-ec        | s.cor    | n; bo<br>n; Lw              | einhe                          | unce-ec                                   | conder@rice-ecs.com; bbaker@rice-ecs.com;<br>hconder@rice-ecs.com; Lweinheimer@rice-ecs.com |               |
| + Cardinal can   | T. Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476   | se fax written changes   | s to 505-393-2476  |   |  |                |          |                             |                                |   |   |               |

Page 5 of 5

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#### Analytical Results For:

RICE ENVIRONMENTAL CONSULTING & SAFETY BRUCE BAKER 112 W. TAYLOR HOBBS NM, 88240 Fax To: (575) 397-1471

| Received:         | 06/13/2012           | Sampling Date:      | 06/12/2012    |
|-------------------|----------------------|---------------------|---------------|
| Reported:         | 06/18/2012           | Sampling Type:      | Soil          |
| Project Name:     | CAPROCK MALJAMAR #98 | Sampling Condition: | Cool & Intact |
| Project Number:   | NONE GIVEN           | Sample Received By: | Jodi Henson   |
| Project Location: | NOT GIVEN            |                     |               |
|                   |                      |                     |               |

# Sample ID: SB 14 @ 15' (H201328-01)

| Chloride, SM4500CI-B          | mg     | /kg             | Analyze    | d By: AP     |       |            |               |      |           |
|-------------------------------|--------|-----------------|------------|--------------|-------|------------|---------------|------|-----------|
| Analyte                       | Result | Reporting Limit | Analyzed   | Method Blank | BS    | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride                      | 3840   | 16.0            | 06/15/2012 | ND           | 416   | 104        | 400           | 3.77 |           |
| TPH 8015M                     | mg     | /kg             | Analyze    | d By: MS     | in la |            | 4 Mar 19 Au   |      | Second    |
| Analyte                       | Result | Reporting Limit | Analyzed   | Method Blank | BS    | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10                    | <10.0  | 10.0            | 06/14/2012 | ND           | 177   | 88.7       | 200           | 6.72 |           |
| DRO >C10-C28                  | <10.0  | 10.0            | 06/14/2012 | ND           | 176   | 87.9       | 200           | 8.73 |           |
| Surrogate: 1-Chlorooctane     | 97.4   | % 65.2-14       | 0          | -            |       |            |               | 199  |           |
| Surrogate: 1-Chlorooctadecane | 116    | % 63.6-15       | 4          |              |       |            |               |      |           |

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#### Sample ID: SB 14 @ 60' (H201328-02)

| Chloride, SM4500CI-B mg/kg Analyzed By: AP |
|--|
|--|

| Analyte                       | Result | Reporting Limit | Analyzed   | Method Blank | BS  | % Recovery | True Value QC | RPD    | Qualifier |
|-------------------------------|--------|-----------------|------------|--------------|-----|------------|---------------|--------|-----------|
| Chloride                      | 128    | 16.0            | 06/15/2012 | ND           | 416 | 104        | 400           | 3.77   |           |
| TPH 8015M                     | mg     | /kg             | Analyze    | d By: MS     | 1.1 |            |               | as the | Carl ?    |
| Analyte                       | Result | Reporting Limit | Analyzed   | Method Blank | BS  | % Recovery | True Value QC | RPD    | Qualifier |
| GRO C6-C10                    | <10.0  | 10.0            | 06/14/2012 | ND           | 177 | 88.7       | 200           | 6.72   |           |
| DRO >C10-C28                  | <10.0  | 10.0            | 06/14/2012 | ND           | 176 | 87.9       | 200           | 8.73   |           |
| Surrogate: 1-Chlorooctane     | 92.6   | % 65.2-14       | 0          |              |     |            |               |        | 1.00      |
| Surrogate: 1-Chlorooctadecane | 110    | % 63.6-15       | 4          |              |     |            |               |        |           |

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#### \*=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

#### Analytical Results For:

RICE ENVIRONMENTAL CONSULTING & SAFETY BRUCE BAKER 112 W. TAYLOR HOBBS NM, 88240 Fax To: (575) 397-1471

| Received:         | 06/13/2012           | Sampling Date:      | 06/12/2012    |
|-------------------|----------------------|---------------------|---------------|
| Reported:         | 06/18/2012           | Sampling Type:      | Soil          |
| Project Name:     | CAPROCK MALJAMAR #98 | Sampling Condition: | Cool & Intact |
| Project Number:   | NONE GIVEN           | Sample Received By: | Jodi Henson   |
| Project Location: | NOT GIVEN            |                     |               |
|                   |                      |                     |               |

#### Sample ID: SB 14 @ 65' (H201328-03)

| Chloride, SM4500CI-B          | 2.00 | mg/    | /kg             | Analyze    | d By: AP     |     |            |               | 1. 1. 21 | Contract 1 |
|-------------------------------|------|--------|-----------------|------------|--------------|-----|------------|---------------|----------|------------|
| Analyte                       |      | Result | Reporting Limit | Analyzed   | Method Blank | BS  | % Recovery | True Value QC | RPD      | Qualifier  |
| Chloride                      |      | 32.0   | 16.0            | 06/15/2012 | ND           | 416 | 104        | 400           | 3.77     |            |
| TPH 8015M                     |      | mg/    | /kg             | Analyze    | d By: MS     |     |            | 1. M. C.      | 1 text 1 | 1.         |
| Analyte                       |      | Result | Reporting Limit | Analyzed   | Method Blank | BS  | % Recovery | True Value QC | RPD      | Qualifier  |
| GRO C6-C10                    |      | <10.0  | 10.0            | 06/14/2012 | ND           | 177 | 88.7       | 200           | 6.72     |            |
| DRO >C10-C28                  |      | <10.0  | 10.0            | 06/14/2012 | ND           | 176 | 87.9       | 200           | 8.73     |            |
| Surrogate: 1-Chlorooctane     |      | 99.1   | % 65.2-14       | 0          |              |     |            |               | 3        | 1.5        |
| Surrogate: 1-Chlorooctadecane |      | 112 9  | 63.6-15         | 4          |              |     |            |               |          |            |

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Celey D. Keine

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 79503

| Company Name: 477000000   | * RECS   |  | and a second   |  | BILL TO  | R. Stor Bondaria  |                |                  |        | AI   | ANALYSIS                       |       | REQUEST        | ST   |             |    |
|---|--|--|--|--|--|---|----------------|------------------|--------|------|--------------------------------|-------|----------------|--|-------------|----|
| Project Manager: Achice   | Baker  |  | ¢.   | P.O. #:                                    |  |   |                |                  | -      | -    |                                | -     | -              |  |             |    |
| Address:  |  |  | ŭ  | Company:                                   | y:   |   | R. Institution |                  |        |      | S                              |       |                | 1  |             |    |
| City:   | State: NM  | Zip:   | At   | Attn:                                      | -  |   |                |                  |        |      | uo                             |       |                |  |             |    |
| Phone #:  | Fax #:   |  | Ac   | Address                                    |  |   | 1000-00        |                  |        |      | u                              |       |                |  |             |    |
| Project #:  | Project Owner:   |  | C  | City:                                      |  |   | 5              | M                |        |      | //S                            |       |                |  |             | -  |
| Project Name:   |  |  | St   | State:                                     | Zip:   |   | səŗ            | 91               |        |      |                                |       |                |  |             |    |
| Project Location: Carrier K 2   | aliamar #  | 58   | P  | Phone #:                                   |  |   | Dinc           | -08              | E)     | LS   | _                              | SC    |                |  |             |    |
|   | ·  |  | Fa   | Fax #:                                     |  |   | oju            | 3 H              |        |      |                                | 11    |                |  |             |    |
| FOR LAB USE ONLY  |  |  | MATRIX   | PRESERV                                    | ERV SAMPLING   | LING  | C              | d                | -      |      | Ð                              |       |                |  |             |    |
| Lab I.D. Sample I.D.  |  | S) RAB OR (C) OMP<br>CONTRINERS<br>ROUNDWATER<br>MASTEWATER<br>OIL   | ערובא :<br>החספב<br>אר   | CID/BASE:                                  | тнея :<br>Р  | HWIT  | No             | 1                |        |      | Comple                         |       |                |  |             |    |
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| Delivered By: ((Circle One)<br>Sampler UPS - Bus - Other:   | 0001   | U Sample Cool III  | Sample Condition<br>Cool Intact<br>Tes Tes<br>No No  | CH   | IECHED BY:   | - Zcond<br>hcond  | er@            | rice-(           | ecs.c  | ;mo  | Bbak<br>Lwei                   | er@   | rice-e<br>ner@ | Zconder@rice-ecs.com; Bbaker@rice-ecs.com;<br>hconder@rice-ecs.com; Lweinheimer@rice-ecs.com | t;<br>s.com |    |
| + † Cardinal cannot accept verbal changes. Please fax w   | bal changes. Please f  | ax written changes to 505-393-2476   | ges to 505   | -393-2                                     | 476  |   |                |                  |        |      |                                |       |                |  |             | 10 |

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#### Analytical Results For:

RICE ENVIRONMENTAL CONSULTING & SAFETY BRUCE BAKER 112 W. TAYLOR HOBBS NM, 88240 Fax To: (575) 397-1471

| Received:         | 07/30/2012                | Sampling Date:      | 07/23/2012    |
|-------------------|---------------------------|---------------------|---------------|
| Reported:         | 08/01/2012                | Sampling Type:      | Soil          |
| Project Name:     | CAPROCK MALJAMAR UNIT #98 | Sampling Condition: | Cool & Intact |
| Project Number:   | NONE GIVEN                | Sample Received By: | Jodi Henson   |
| Project Location: | NOT GIVEN                 |                     |               |
| Project Location: | NOT GIVEN                 |                     |               |

#### Sample ID: 5 PT COMP @ 2' IN PASTURE SCRAPE (H201759-01)

| Chloride, SM4500CI-B | mg,    | /kg             | Analyze    | d By: AP     |     |            | Section 2     | N. 1. 36 |           |
|----------------------|--------|-----------------|------------|--------------|-----|------------|---------------|----------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank | BS  | % Recovery | True Value QC | RPD      | Qualifier |
| Chloride             | 16.0   | 16.0            | 08/01/2012 | ND           | 416 | 104        | 400           | 3.92     |           |

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 2 of 4

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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| Project #:   | Project Owner:  |   | City:   |  |           |                    | _    | //s                            |             |  |   |
| Project Name:  | ("Ofreik Hiltemur Unit #  | A98   | State: Zip:   |  | 12<br>səp | -                  | Ы    | _                              |             |  |   |
| Project Location:  |   |   | Phone #:  |  | -         | -                  | _    | oite<br>SC                     |             |  |   |
| Sampler Name:  | Detter Humans   |   | Fax #:  |  | -         | 18                 |      | -                              | 11          |  |   |
| FOR LAB USE ONLY   |   | MATRIX  | PRESERV SAMPLING  |  |           |                    |      | Ð                              |             |  |   |
| Lab I.D.<br>H2DTT69  | Sample I.D.   | (G) PAB OR (C) OMP<br>(G) PALAINERS<br>REOUNDWATER<br>MASTEWATER<br>SOIL<br>DIL<br>SLUDGE       | DTHER :<br>MOID/BASE:<br>DTHER :<br>DTHER :<br>BH   | TIME   | Τ,        |                    |      | Comple                         |             | 1154   |   |
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| Delivered BY:<br>Sampler - UPS                             | Delivered By: (Circle One) 5. NO<br>Sampler - UPS - Bus - Other:  | Sample Condition<br>Cool Intact<br>Dyes Dyes  | on CHECKED BY:  | Zconde   | r@rice    | e-ecs.             | :moc | Bbak<br>Lweii                  | er@ric      | Zconder@rice-ecs.com; Bbaker@rice-ecs.com;<br>hconder@rice-ecs.com; Lweinheimer@rice-ecs.com | E |
| † Cardinal   | † Cardinal cannot accept verbal changes. Please fax written changes to 505-3932476  | ax written changes to t   | 505-3932476<br>H  |  | 1.11      |                    | 1    |                                |             |  |   |

# HARRISON & COOPER, INC.

**Drilling & Pump Professionals** 

7414 85<sup>th</sup> Street, Lubbock, Texas 79424-4951

P.O. Box 96, Wolfforth, Texas 79382-0096

Ph: (806) 866-4026

Fax: (806) 866-4044

hcidrill.com

#### July 18, 2012

**INVOICE #71219** 

Rice Environmental Consulting & Safety 112 W. Taylor Hobbs, NM 88240

RE: Site: Linn Operating Caprock Maljamar #98

To whom it may concern:

Harrison & Cooper, Inc. installed a soil boring at the subject location to determine if groundwater existed. After allowing a 48 hour holdover time water did exist at a static water level of 123'. If there are any questions please do not hesitate to call Kenny Cooper @ 806.300.1886.

Sincerely,

Kenny Cooper

Copies: File Email (Rice)

Regulated by: Texas Dept. of Licensing & Regulation, Water Well Division, P.O. Box 12157, Austin, TX 78711, (800) 803-9202

#### Linn Operating Caprock Maljamar Unit #98 Unit M, Section 28, T-17-S, R-33-E SB1 through SB12



Drilling SB-1, facing south

5/17/12



Collecting sample, facing west

5/17/12



Plugging SB-1 in total with bentonite 5/17/12



Completed SB-1 and drilling SB-2, facing south 5/17/12



Plugging SB-2 in total with bentonite 5/17/12



Drilling SB-3, facing south

5/17/12



Plugging SB-3 in total with bentonite 5/17/12



Collecting sampling from SB-4

5/17/12



Plugging SB-4 in total with bentonite 5/17/12



Drilling SB-5, facing southwest

5/17/12



Drilling SB-6, facing west

5/17/12



Plugging SB-6 in total with bentonite 5/17/12



Plugging SB-7 in total with bentonite 5/17/12



Drilling SB-8, facing east

5/17/18



Plugging SB-8 in total with bentonite 5/17/12



Drilling SB-9, facing north

5/17/12



Plugging SB-9 in total with bentonite 5/17/12



Drilling SB-10, facing west

5/17/12



Plugging SB-10 in total with bentonite 5/17/12



Plugging SB-11 in total with bentonite 5/17/12



Plugging SB-12 in total with bentonite 5/17/12



Soil bores completed, facing north

5/17/12



Soil bores completed, facing south



Soil bores completed, facing southeast 5/17/12

Linn Operating Caprock Maljamar Unit #98 Unit Letter M, Section 28, T-17-S, R-33-E Temporary Monitoring Well, SB13, and SB14



Drilling temporary MW, facing west 6/11/12



Plugging SB-13 in total with bentonite 6/11/12



Drilling SB-14, facing east

6/12/12



Drilling SB-13, facing east

6/11/12



Completed SB-13, facing west

6/11/12



Plugging SB-14 in total with bentonite 6/12/12