# AP - 45

# STAGE 2 REPORT

DATE: 09-24-07

RECEIVED

SFP 2 7 2007
Environmental Bureau
Oil Conservation Division

September 24, 2007

# STAGE 2 FINAL REPORT

# EME P-6 RELEASE SITE (AP-45)

# T20S, R37E, SECTION 6, UNIT LETTER P LEA COUNTY, NEW MEXICO



Prepared by:

TRIDENT

P. O. Box 7624 Midland, Texas 79708 Prepared for:

RICE Operating Company

**122 West Taylor** 

Hobbs, New Mexico 88240



CERTIFIED MAIL
RETURN RECIEPT NO. 7099 3400 0017 1737 2169

RECEIVED

September 24, 2007

SEP 2 7 2007

Environmental Bureau

Oil Conservation Division

Mr. Edward Hansen New Mexico Energy, Minerals, & Natural Resources Oil Conservation Division, Environmental Bureau 1220 S. St. Francis Drive Santa Fe, New Mexico 87504

RE: Stage 2 Final Report

EME P-6 Release Site (AP-45) T20S-R37E-Section 6, Unit Letter P Lea County, New Mexico

Dear Mr. Hansen

On behalf of Rice Operating Company (ROC), enclosed is the Stage 2 Final Report for the above-referenced site. The Final Report includes the findings from recent investigation activities in accordance with the NMOCD-approved Stage 1 & 2 Abatement Plan.

The following corrective actions taken at the EME P-6 Line Leak site have eliminated past and minimized any future threats to vadose zone or groundwater degradation:

- Replacement of former 10-inch A/C line with poly line
- Excavation and removal of 168 yd<sup>3</sup> of hydrocarbon-impacted soil
- Excavation, remediation, and blending of approximately 400 yd<sup>3</sup> of lesser impacted soil to 64 ppm chloride, a total petroleum hydrocarbon (TPH) level of 115 mg/kg, and benzene, toluene, ethylbenzene, and xylenes (BTEX) concentrations less than 0.005 mg/kg.
- Installation of a clay layer to minimize infiltration through the vadose zone.
- Placement of clean topsoil and application of a native seed mixture to encourage re-vegetation which is being monitored for continued healthy growth.

Vadose zone delineation activities from 13 trenched sample locations within the impacted area during earlier investigations have shown that the chloride concentration averaged only 340 mg/kg. Based on those findings it is evident that the chloride load in the vadose zone is at a level too low to suggest any significant contribution to the chloride concentrations observed in the groundwater at the site.

Groundwater analytical results from the recently-installed onsite monitoring wells and a review of data from other sites in the area have provided evidence that the elevated chloride and total dissolved solids (TDS) concentrations in the groundwater at the site are the result of upgradient sources and are consistent with the regionally-impaired groundwater quality.

We propose to continue sampling monitoring wells P6-1, P6-2, P6-3, and P6-4. In addition, vegetation will be monitored for growth and amendments added if necessary. If quarterly sampling results continue to support the conclusions described above, and vegetation improves at its natural rate, a request for closure of the Rule 19 regulatory file associated with this site will be submitted to the NMOCD in the first quarter of 2008.

ROC also requests immediate suspension of BTEX analysis since there is no evidence of hydrocarbon impact to the vadose zone and since all monitoring wells have indicated concentrations below the WOCC standards for each constituent of BTEX.

If you have any questions please call me at 432-638-8740 or Kristin Pope at 505-393-9174.

Wan Lux

Sincerely,

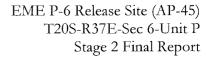
Gilbert Van Deventer, REM, PG

Trident Environmental

cc: CDH, JSC, KFP

## TABLE OF CONTENTS

1.0	EXECUTIVE SUMMARY	.1
2.0	CHRONOLOGY OF EVENTS	.3
3.0	BACKGROUND	.4
	3.1 SITE LOCATION AND LAND USE	
4.0	GEOLOGY AND HYDROGEOLOGY	.7
	4.1 REGIONAL AND LOCAL GEOLOGY	
5.0	SUBSURFACE SOIL EXCAVATION	.8
6.0	GROUNDWATER QUALITY	.10
	<ul> <li>6.1 Monitoring Program.</li> <li>6.2 Hydrocarbons in Groundwater.</li> <li>6.3 Other Constituents of Concern.</li> </ul>	.10
7.0	CLOSURE AND PROPOSED SCHEDULE OF ACTIVITIES	.17
FIGUI	FIGURES E 1: Site Location Map	.5
	E 2: Aerial Photo Map	
	E 3: BACKFILL DIAGRAME 4: GROUNDWATER GRADIENT AND CHLORIDE, TDS, & BTEX MAP	
	HS: Chloride and TDS Concentrations Versus Time Graphs	
	TABLES	
	E 1: SUMMARY OF EXCAVATION CLOSURE SAMPLING RESULTS	
	APPENDICES	
APPE	IDIX A NMOCD CORRESPONDENCE	
APPE	IDIX B Photo-documentation	
APPE	IDIX C Lithologic Logs & Well Construction Diagrams	
APPE	DIX D MANIFESTS	
APPE	DIX E LABORATORY REPORTS & CHAINS OF CUSTODY	
APPE	DIX F SEED MIX	





1.0 EXECUTIVE SUMMARY

This Stage 2 Final Report presents the results of the characterization and corrective actions performed by Rice Operating Company (ROC) at the EME P-6 release site in accordance with the NMOCD-approved Stage 1 and 2 Abatement Plan, NMOCD conditions to the minor amendment, and email communications with the NMOCD (Appendix A).

The following corrective actions taken at the EME P-6 Release site have eliminated past and minimized any future threats to vadose zone or groundwater degradation:

- o Replacement of former 10-inch A/C line with poly line
- Excavation and removal of 168 yd<sup>3</sup> of hydrocarbon-impacted soil
- Excavation, remediation, and blending of approximately 400 yd<sup>3</sup> of lesser impacted soil to 64 ppm chloride, a total petroleum hydrocarbon (TPH) level of 115 mg/kg, and benzene, toluene, ethylbenzene, and xylenes (BTEX) concentrations below 0.005 mg/kg.
- Installation of a clay layer to minimize infiltration through the vadose zone.
- Placement of clean topsoil and application of a native seed mixture to encourage revegetation which is being monitored for continued healthy growth.

Vadose zone delineation activities from 13 trenched sample locations within the impacted area during earlier investigations have shown that the chloride concentration averaged only 340 mg/kg. Based on those findings it is evident that the chloride load in the vadose zone is at a level too low to suggest any significant contribution to the chloride concentrations observed in the groundwater at the site.

Furthermore, groundwater analytical results from the recently-installed onsite monitoring wells and a review of data from other sites in the area have provided additional evidence that the elevated chloride and total dissolved solids (TDS) concentrations in the groundwater at the site are the result of upgradient sources and are consistent with the regionally-impaired groundwater quality.

We propose to continue sampling monitoring wells P6-1, P6-2, P6-3, and P6-4. In addition, vegetation will be monitored for growth and amendments added if necessary. If quarterly sampling results continue to support the conclusions described above, and vegetation improves at its natural rate, a request for closure of the Rule 19 regulatory file associated with this site will be submitted to the NMOCD in the first quarter of 2008.



### 2.0 CHRONOLOGY OF EVENTS

November 29, 2000	Initial release discovered. C-141 form submitted to NMOCD. The 10-inch pipe was replaced.
November 14, 2001	Soil boring sampling conducted. Samples were field-tested for chloride.
November 29, 2001	Additional soil sampling with backhoe. Field-tested for chloride and TPH.
January 9, 2002	Monitoring well P6-1 was installed at the release site.
January 18, 2002	ROC submitted Notification of Groundwater Impact to Roger Anderson, NMOCD office in Santa Fe, NM.
April 29, 2003	Hand augered boring sampling conducted. Samples were field-tested for chloride and TPH. Samples also submitted to lab for BTEX (8021B), GRO/DRO (8015M), and TPH fractions (TX1006).
July 31, 2003	Work plan submitted to NMOCD office in Santa Fe, NM, which included results from all subsurface soil investigations conducted to date and recommendation for additional monitoring wells (P6-2 and M5-1).
August 26, 2003	Work plan approved by Wayne Price, NMOCD office in Santa Fe, NM.
November 16, 2003	Monitoring well M5-1 was installed on adjacent downgradient site (approximately 500 ft southeast of P-6 Release site) during a separate investigation.
February 17, 2004	Monitoring well P6-2 installed upgradient from the release.
September 20, 2004	Corrective Action Plan (CAP) submitted to Wayne Price, NMOCD office in Santa Fe, NM
December 10, 2004	CAP denied by Wayne Price, NMOCD office in Santa Fe, NM
January 21, 2005	Additional soil sampling was conducted with a backhoe for further delineation of vertical and horizontal extent of hydrocarbon- and chloride-impacted soil. Soil samples were field-tested for chloride (QP-01) and organic vapor headspace. Samples were also submitted to the laboratory for BTEX (8260) and GRO/DRO (8015M) analysis.
March 16, 2005	A revised Corrective Action Plan submitted to Wayne Price, NMOCD



EME P-6 Release Site (AP-45) T20S-R37E-Sec 6-Unit P Stage 2 Final Report

May 5, 2005	Daniel Sanchez, NMOCD office in Santa Fe, NM, requested an Abatement Plan to be submitted by July 15, 2005.									
July 12, 2005	Stage 1 and 2 Abatement Plan was submitted to the NMOCD.									
July 12, 2006	Stage 1 and 2 Abatement Plan and minor modification was approved by the NMOCD.									
July 19, 2006	Monitoring wells P6-3 and P6-4 were installed approximately 120 ft northwest and 230 ft south of P6-1, respectively. Approved access by the landowner was not granted for the installation of an offsite, crossgradient monitoring well (P6-5) located approximately 200 feet east of monitoring well P6-1.									
December 26, 2006	Excavation activities were completed.									
January 11, 2007	NMOCD approves request for backfilling.									
January 18, 2007	ROC completed backfilling of excavation which included the installation of a clay barrier and native topsoil cover supportive of reestablishing vegetation.									
April 10, 2007	ROC re-seeded the site with a blend of native grass seed using a seed drill.									



### 3.0 BACKGROUND

### 3.1 SITE LOCATION AND LAND USE

The EME P-6 Release site is located on land owned by Chevron in township 20 south, range 37 east, section 6, unit letter P approximately 4 miles west-southwest of Monument, NM as shown on the topographic map (Figure 1, next page) and aerial photographic map (Figure 2, below).

ROC is the service provider (agent) for the EME SWD System and has no ownership of any portion of the pipeline, well, or facility. The System is owned by a consortium of oil producers, System Partners, who provide all operating capital on a percentage ownership/usage basis.

Since the 1930's the land in the site area has been utilized for crude oil and gas production which continues to be its primary use today. Cattle ranching in the Monument and Eunice areas began in the late 1880s and continues today; however this activity has diminished over the years.

An abundance of oil and gas production facilities are located within and around the EME P-6 Release site as shown in Figure 2 below.

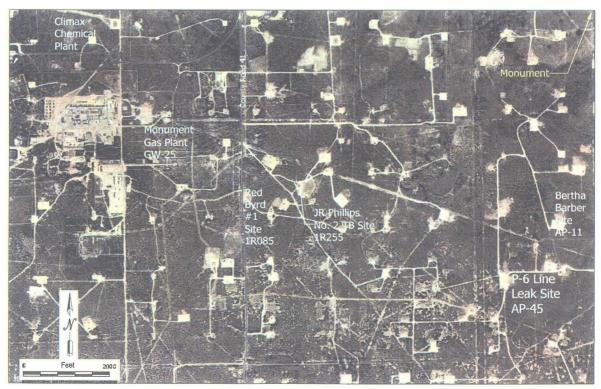
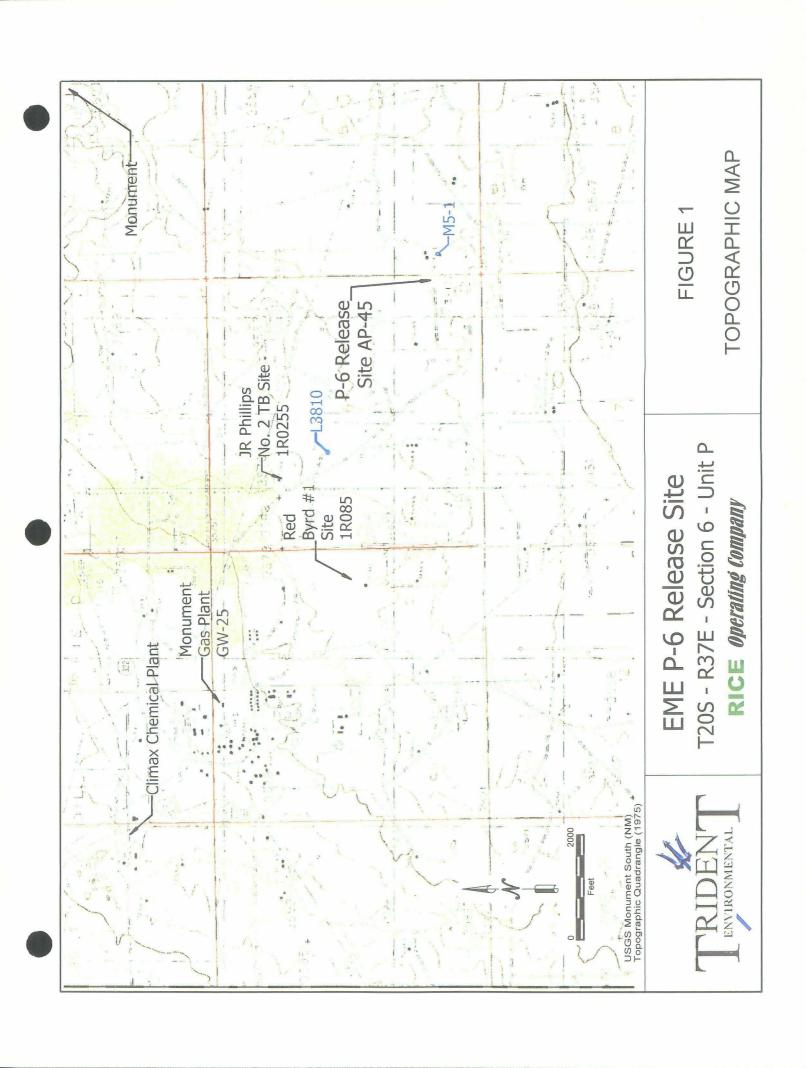
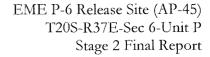


Figure 2: Aerial Photograph (July 2005)







### 3.2 Nature of Release and Summary of Previous Work

This project has been ongoing since an accidental release of produced water was discovered on November 29, 2000. So far work has included extensive upgrades to the near-area SWD system, multiple site assessment sampling events, installation and sampling of four groundwater monitoring wells (P6-1, P6-2, P6-3, and P6-4), sampling of an offsite, upgradient well (L-3810) and downgradient well (M5-1) as shown in Figure 1. The NMOCD was notified of all significant events related to the project (work plans, C-141 forms, Notification of Groundwater Impact, Disclosure Reports, Stage 1 and 2 Abatement Plan, minor modifications, backfill request, etc). Previous investigations and reports are briefly identified in Section 2.0.



### 4.0 GEOLOGY AND HYDROGEOLOGY

### 4.1 REGIONAL AND LOCAL GEOLOGY

The site is underlain by Quaternary colluvium deposits composed of sand, silt, and gravel deposited by slopewash, and talus which were re-deposited from the underlying Ogallala Formation. These deposits are often calichified (indurated with cemented calcium carbonate) with caliche layers from 1 to 20 feet thick. The thickness of the colluvium deposits and Ogallala Formation at the site is estimated at 60 feet; however it varies locally as a result of significant paleo-topography at the top of the underlying Triassic Dockum Group. Since Cretaceous Age rocks in the region have been removed by pre-Tertiary erosion, the colluvial deposits and Ogallala Formation rest unconformably on the Triassic Dockum Group. The uppermost unit of the Dockum Group is the Chinle Formation, which primarily consists of micaceous red clay and shale but also contains thin interbeds of fine-grained sandstone and siltstone. The red clays and shale of the Chinle Formation act as an aquitard beneath the water bearing colluvial deposits and therefore limit the amount of recharge to the underlying Dockum Group.

The first few feet beneath ground surface are dominated by fine to medium-grained dune sand. Based on the descriptions provided in lithologic logs the subsurface soils are composed of silty fine-grained sand and caliche. Well-indurated sand and calcite/caliche veins were also observed and clay was present in small amounts. The red clay of the Dockum Group is present at a depth of approximately 60 feet below ground surface at the site. The lithologic logs and well construction diagrams for the four monitoring wells associated with the site are included in Appendix C.

### 4.2 REGIONAL AND LOCAL HYDROGEOLOGY

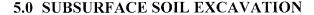
Potable groundwater used in southern Lea County is derived primarily from the Ogallala Formation and the Quaternary alluvium. Water from the Ogallala and alluvium aquifers in southern Lea County is used for irrigation, stock, domestic, industrial, and public supply purposes.

Depth to groundwater beneath the site area is approximately 30 feet below ground surface. The direction of groundwater flow is to the south-southeast with a relatively flat hydraulic gradient of approximately 0.0015 feet/foot. Except for being relatively flat, the groundwater gradient at the P-6 Release site is consistent with those of several other groundwater monitoring sites in the Monument area (0.003 ft/ft) and the regional gradient as cited in published reports (Nicholsen and Clebsch, 1961).

Based on the water well inventory described in the Stage 1 and 2 Abatement Plan and several field reconnaissance efforts there are no known potential water supply receptors (domestic, livestock, irrigation, or industrial wells) within 1,000 feet of the P-6 Release site.

There are no surface water bodies located within a mile of the site.





Excavation, remediation, and backfilling, activities at the EME P-6 Release Site (AP-45) were completed on January 18, 2007 in accordance with the Stage 1 & 2 Abatement Plan, NMOCD conditions to the minor amendment, and email communications with the NMOCD (Appendix A).

Excavation activities were conducted between December 20 and 26, 2006. The final size of the excavation was approximately 26 ft wide by 26 ft long by 16 ft deep which resulted in a total of approximately 400 cubic yards of soil. Of that total, 168 cubic yards of the more highly TPH-impacted excavated soil was transported to the South Monument Surface Waste Facility (Manifests are included in Appendix D). The remaining excavated soil was blended with clean topsoil (dune sand) imported from the South Monument Surface Waste Facility. The wall and floor samples were collected consistent with the compositing protocol used by ROC for typical junction box closure sites. Laboratory analytical results are summarized in Table 1 below. Copies of the laboratory analytical reports and chains of custody are included in Appendix E.

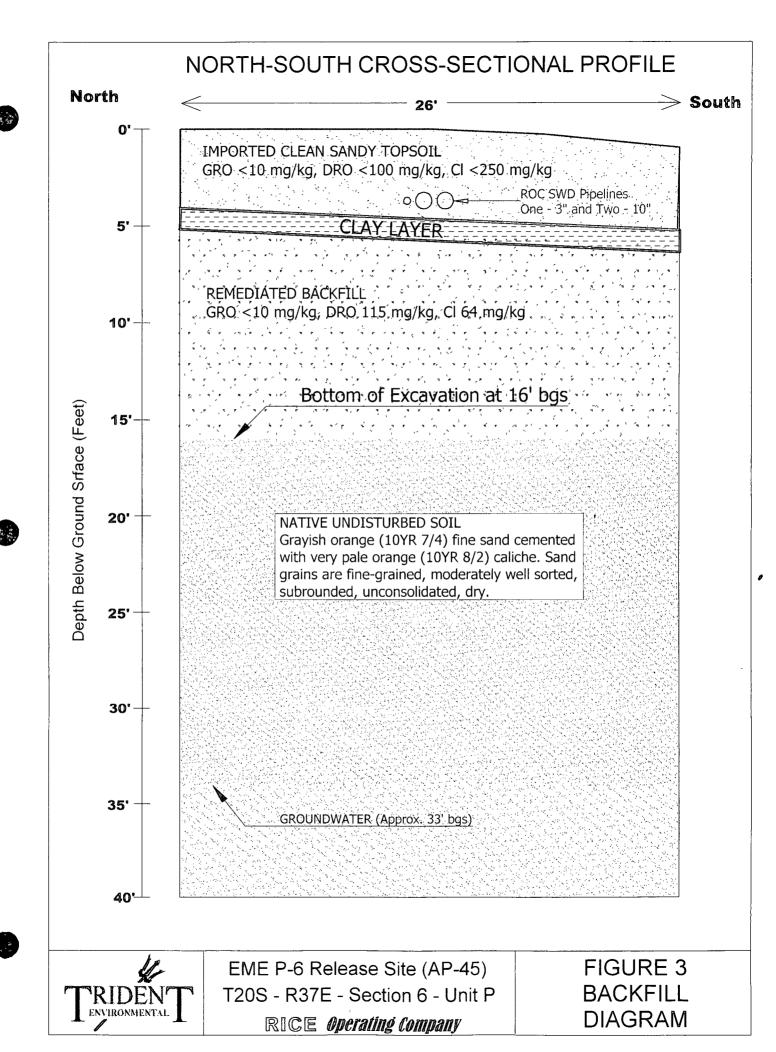
Table 1
Summary of Excavation Closure Sampling Results

Sample Identification	Sample Date	.2	OVM (ppm)	Chloride (ppm)		DRO (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)
Floor	12/27/06	N/A	141	656	213	1209	0.016	0.034	0.117	0.363
Four Walls	12/27/06	N/A	45	432	15	514	<0.005	<0.005	0.017	0.006
Remediated Backfill	12/29/06	400	10	64	<10	115	<0.005	<0.005	< 0.005	<0.015

On January 11, 2007, the NMOCD approved ROC's request to backfill the excavation based on the actions and findings described above. Figure 3 depicts the North-South cross-sectional profile of the excavation after backfilling with clean blended soil, a clay layer, and fresh topsoil, which was completed on January 18, 2007.

On April 10, 2007, ROC re-seeded a 9,000 ft<sup>2</sup> area at the site with a blend of native grass seed using a seed drill. A list of the seed blends and amounts used is included in Appendix F.

On April 11, 2007, and May 7, 2007, the seeded area was watered and the site is being monitored for growth. Several photographs of the activities referenced above are included in Appendix B.







### 6.1 MONITORING PROGRAM

On July 18 and 19, 2006, two additional monitoring wells (P6-3 and P6-4) were installed in accordance with the Stage 1 and 2 Abatement Plan and NMOCD conditions to the minor amendment. Approval for access was not granted by the landowner to install an offsite, crossgradient monitoring well (P6-5) located approximately 200 feet east of monitoring well P6-1; however it is not needed since sufficient evidence has been provided to support the conclusion that the elevated chloride and TDS concentrations in the groundwater at the site are the result of regional upgradient sources. A site map showing monitoring wells associated with the P-6 Release site is depicted in Figure 4. The site map also includes an offsite, downgradient well located approximately 500 feet southeast of monitoring well P6-1 at a neighboring site being monitored by ROC (EME M-5 SWD). Various photos of the well installations are included in Appendix B.

Monitoring wells P6-1, P6-2, P6-3, P6-4, and M5-1 have been sampled on a quarterly basis for major ions, TDS, and BTEX. NMOCD approved ROC's request to suspend BTEX analysis for P6-1 and P6-2 due to non-detectable readings for over well over 8 consecutive quarters.

A summary of historical analytical results and groundwater elevations is listed in Table 2. The water table elevations, direction of groundwater flow, and analytical results for the most recent monitoring event conducted on June 6, 2007, are also depicted in Figure 4. A copy of the laboratory analytical report and chain of custody form for the most recent ground water sampling event is included in Appendix E.

### 6.2 Hydrocarbons in Groundwater

BTEX concentrations in monitoring wells P6-1, P6-2, and M5-1 have been below the New Mexico Water Control Commission (WQCC) standards for each constituent and for every sampling event. After 3 quarterly sampling events for recently installed monitoring wells P6-3 and P6-4, the BTEX concentrations have also been below WQCC standards for each constituent, with the exception of P6-3 during the November 9, 2006 sampling event; however, BTEX concentrations in P6-3 have since returned to levels below WQCC standards.

### 6.3 OTHER CONSTITUENTS OF CONCERN

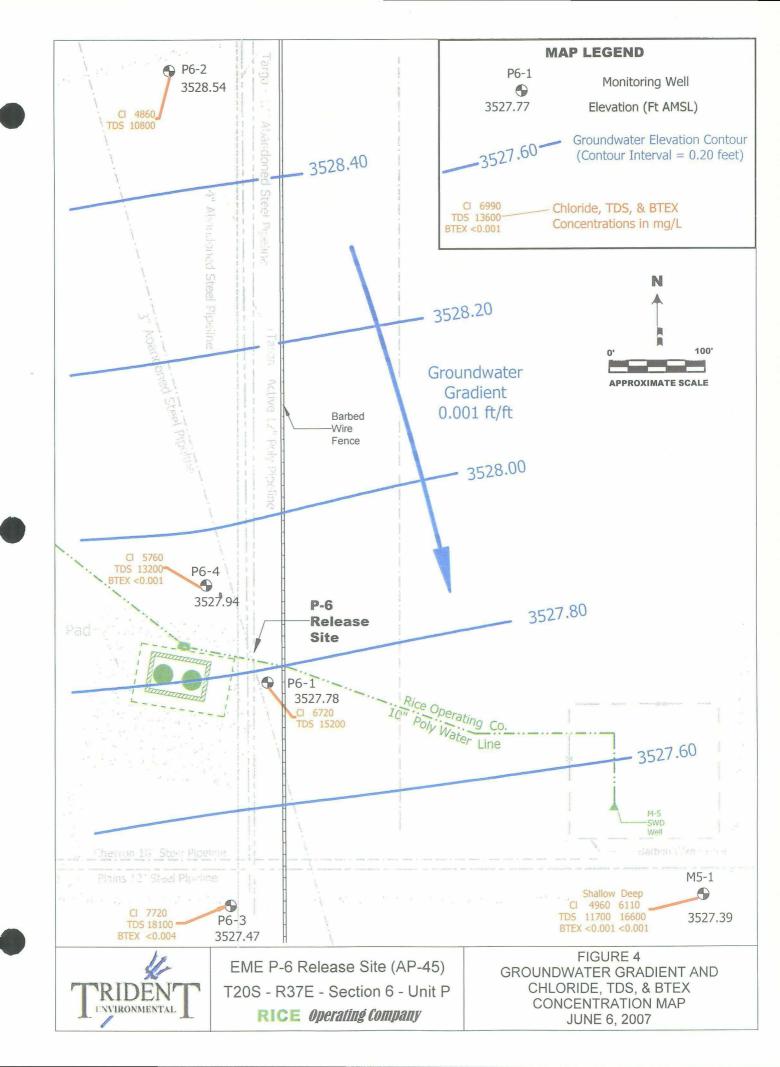
Chloride and TDS concentrations at the EME P-6 Release Site exceed WQCC standards; however they are at lower levels as compared to the regionally impacted groundwater in this area of Monument NM. A water well (NMSEO File No. L-3810) which is out of service (no submersible pump or windmill) is being used as a groundwater monitoring point for the J. R. Phillips No. 2 Tank Battery Site (NMOCD File No. 1R0255). This well is located



EME P-6 Release Site (AP-45) T20S-R37E-Sec 6-Unit P Stage 2 Final Report

approximately ¾ mile northwest, upgradient from the EME P-6 Release Site. Based on laboratory analyses of groundwater samples obtained on June 6, 2007 (Appendix E), the chloride (10,100 mg/L) and TDS (23,000 mg/L) concentrations in this well are representative of the regionally-impaired groundwater and far exceed those observed at the EME P-6 Release Site.

Although there have been some minor fluctuations, chloride and TDS concentrations in all on site monitoring wells exhibit a decreasing trend since monitoring began in 2002.





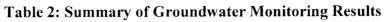


Table 2. Summary of Groundwater Wontoning Results											
Monitoring Well	Sample Date	Chloride (mg/L)	TDS (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethyl- benzene (mg/L)	Xylenes (mg/L)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet AMSL)		
	01/10/02	10,700	20,248	< 0.002	< 0.002	< 0.002	< 0.006	36.70	3522.39		
	05/14/02	8,060	18,200	< 0.001	< 0.001	< 0.001	< 0.001	36.73	3522.36		
	08/15/02	9,570	16,900	< 0.001	< 0.001	< 0.001	< 0.001	36.95	3522.14		
	11/06/02	9,040	17,400	< 0.001	< 0.001	< 0.001	< 0.001	37.15	3521.94		
	02/27/03	8,860	15,000	< 0.001	< 0.001	< 0.001	< 0.001	37.12	3521.97		
	05/29/03	8,680	20,000	< 0.001	< 0.001	< 0.001	< 0.001	37.19	3521.90		
	08/21/03	8,860	17,800	< 0.001	< 0.001	< 0.001	< 0.001	37.43	3521.66		
	11/19/03	8,690	18,500	< 0.001	< 0.001	< 0.001	< 0.001	37.64	3521.45		
	02/20/04	8,510	16,600	< 0.001	< 0.001	< 0.001	< 0.001	37.84	3521.25		
	05/06/04	8,510	17,400	< 0.001	< 0.001	< 0.001	< 0.001	37.36	3521.73		
P6-1	08/10/04	9,040	17,200	< 0.001	< 0.001	< 0.001	< 0.001	37.03	3522.06		
10-1	11/09/04	9,130	17,600	< 0.001	< 0.001	< 0.001	< 0.001	36.28	3522.81		
	02/07/05	8,210	17,800	< 0.001	< 0.001	< 0.001	< 0.001	33.54	3525.55		
	05/03/05	7,090	19,300	< 0.001	< 0.001	< 0.001	< 0.001	32.76	3526.33		
	08/11/05	9,210	16,600	< 0.001	< 0.001	< 0.001	< 0.001	32.81	3526.28		
	11/28/05	7,580	14,700	< 0.001	< 0.001	< 0.001	< 0.001	32.81	3526.28		
	02/20/06	7,510	15,500	< 0.001	< 0.001	< 0.001	< 0.001	32.43	3526.66		
	05/16/06	8,160	15,600	< 0.001	< 0.001	< 0.001	< 0.001	32.44	3526.65		
	08/23/06	7,370	12,900	< 0.001	< 0.001	< 0.001	< 0.001	32.96	3526.13		
	11/09/06	6,700	13,200					31.98	3527.11		
	02/28/07	6,930	14,900					31.32	3527.77		
	06/06/07	6,720	15,200					31.31	3527.78		
	02/20/04	9,040	19,700	< 0.001	< 0.001	< 0.001	< 0.001	37.97	3521.73		
	05/06/04	8,330	16,100	< 0.001	< 0.001	< 0.001	< 0.001	37.29	3522.41		
	08/10/04	8,240	15,400	< 0.001	< 0.001	< 0.001	< 0.001	36.97	3522.73		
	11/09/04	7,670	15,700	< 0.001	< 0.001	< 0.001	< 0.001	35.83	3523.87		
	02/07/05	7,030	15,300	< 0.001	< 0.001	< 0.001	< 0.001	32.76	3526.94		
	05/03/05	6,050	14,100	< 0.001	< 0.001	< 0.001	< 0.001	32.29	3527.41		
P6-2	08/11/05	7,540	14,300	< 0.001	< 0.001	< 0.001	< 0.001	32.62	3527.08		
	11/28/05	7,660	9,170	< 0.001	< 0.001	< 0.001	< 0.001	32.62	3527.08		
	02/20/06	5,620	12,600	< 0.001	< 0.001	< 0.001	< 0.001	32.42	3527.28		
	05/16/06	6,290	11,400	< 0.001	< 0.001	< 0.001	< 0.001	32.50	3527.20		
	08/23/06	5,490	9,850	< 0.001	< 0.001	< 0.001	< 0.001	33.03	3526.67		
	11/09/06	4,860	9,850					31.79	3527.91		
	02/28/07 06/06/07	4,890 4,860	9,390 10,800					31.17 31.16	3528.53 3528.54		



**Table 2: Summary of Groundwater Monitoring Results (Continued)** 

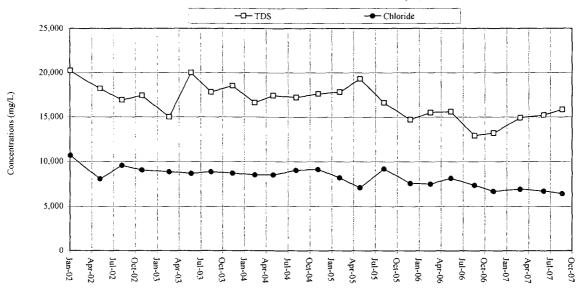
Monitoring Well	Sample Date	Chloride (mg/L)	TDS (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethyl- benzene (mg/L)	Xylenes (mg/L)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet AMSL)
	08/23/06	8,300	13,100	< 0.001	< 0.001	< 0.001	< 0.001	34.19	3525.89
P6-3	11/09/06	7,520	14,100	0.013	0.001	0.003	< 0.001	33.32	3526.76
103	02/28/07	7,690	13,500	< 0.001	< 0.001	< 0.001	< 0.001	32.62	3527.46
	06/06/07	7,720	18,100	< 0.001	0.002	< 0.001	0.001	32.61	3527.47
	08/23/06	6,750	13,400	< 0.001	< 0.001	< 0.001	< 0.001	33.29	3526.21
P6-4	11/09/06	6,070	11,900	< 0.001	< 0.001	< 0.001	< 0.001	32.23	3527.27
	02/28/07	6,080	12,100	< 0.001	< 0.001	< 0.001	< 0.001	31.57	3527.93
	06/06/07	5,760	13,200	< 0.001	< 0.001	< 0.001	< 0.001	31.56	3527.94
	12/11/03	6,198	10,784	< 0.002	< 0.002	< 0.002	< 0.006	33.28	
	02/20/04	5,320	14,500	< 0.002	< 0.002	< 0.002	< 0.006	33.37	3521.04
	05/06/04	5,940	12,400	< 0.002	< 0.002	< 0.002	< 0.006	32.79	3521.62
	08/10/04	6,910	17,300	< 0.001	< 0.001	< 0.001	< 0.001	32.52	3521.89
	11/09/04	7,090	14,000	< 0.001	< 0.001	< 0.001	< 0.001	31.63	3522.78
	02/07/05	6,710	13,200	< 0.001	< 0.001	< 0.001	< 0.001	28.85	3525.56
M5-1	05/03/05	6,560	16,500	< 0.001	< 0.001	< 0.001	< 0.001	28.10	3526.31
(shallow)	08/13/05	6,070	13,800	< 0.001	< 0.001	< 0.001	< 0.001	28.24	3526.17
	11/28/05	4,500	12,300	< 0.001	< 0.001	< 0.001	< 0.001	28.24	3526.17
	02/20/06	5,660	12,400	< 0.001	< 0.001	< 0.001	< 0.001	27.25	3527.16
	05/16/06	7,870	14,300	< 0.001	< 0.001	< 0.001	< 0.001	27.81	3526.60
	08/23/06	6,160	11,800	< 0.001	< 0.001	< 0.001	< 0.001	28.34	3526.07
	11/10/06	5,840	10,500	< 0.001	< 0.001	< 0.001	< 0.001	27.39	3527.02
	02/28/07	5,000	10,000	< 0.001	< 0.001	< 0.001	< 0.001	27.39	3527.02
	06/07/07	4,960	11,700	< 0.001	< 0.001	< 0.001	< 0.001	26.53	3527.88
	12/11/03	6,198	11,736	< 0.002	< 0.002	< 0.002	< 0.006	33.40	3521.11
	11/28/05	5,590	11,400	< 0.001	< 0.001	< 0.001	< 0.001	28.10	3526.41
	02/20/06	6,830	14,400	< 0.001	< 0.001	< 0.001	< 0.001	27.87	3526.64
M5-1	05/16/06	7,000	13,100	< 0.001	< 0.001	< 0.001	< 0.001	27.81	3526.70
(deep)	08/23/06	7,100	14,100	< 0.001	< 0.001	< 0.001	< 0.001	28.44	3526.07
	11/10/06	5,840	12,000	< 0.001	< 0.001	< 0.001	< 0.001	27.49	3527.02
	02/28/07	6,000	12,000	< 0.001	< 0.001	< 0.001	< 0.001	27.49	3527.02
	06/07/07	6,110	16,600	< 0.001	< 0.001	< 0.001	< 0.001	27.14	3527.83
L-3810	06/06/07	10,100	23,000					29.41	3533.13
WQCC Sta	andards	250	1,000	0.01	0.75	0.75	0.62		

Total Dissolved Soilds (TDS), chloride, and BTEX concentrations listed in milligrams per liter (mg/L)

Values in boldface type indicate concentrations exceed New Mexico Water Quality Commission (WQCC) standards.

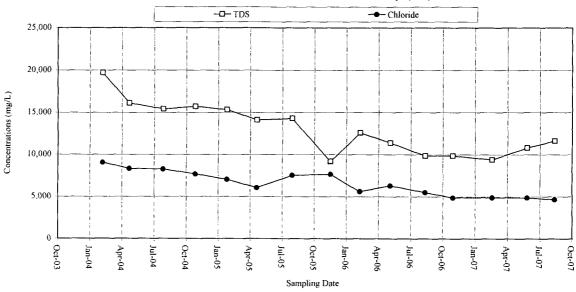
<sup>---</sup> Indicates monitoring well not analyzed for this constituent.



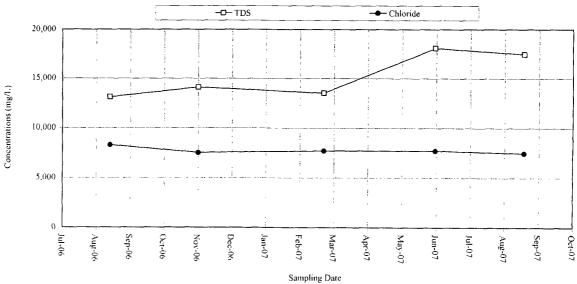


Sampling Date

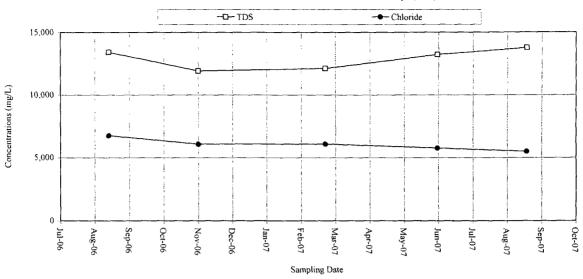




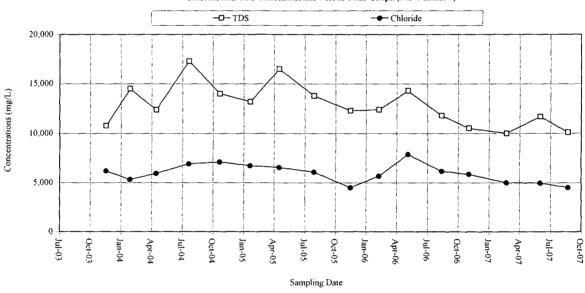




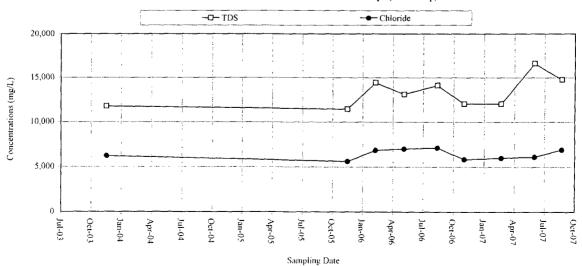




### Chloride and TDS Concentrations Versus Time Graph (M5-1 Shallow)



### Chloride and TDS Concentrations Versus Time Graph (M5-1 Deep)





### 7.0 CLOSURE AND PROPOSED SCHEDULE OF ACTIVITIES

The following corrective actions taken at the EME P-6 Release site have provided for protection of the groundwater environment:

- Replacement of former 10-inch A/C line with poly line
- Excavation and removal of 168 yd<sup>3</sup> of hydrocarbon-impacted soil
- Excavation, remediation, and blending of approximately 400 yd<sup>3</sup> of lesser impacted soil was used as backfill and had a chloride concentration of only 64 mg/kg, a TPH level of 115 mg/kg, and BTEX concentrations below 0.005 mg/kg.
- Installation of a clay layer to minimize infiltration through the vadose zone.
- Placement of clean topsoil and application of native seed to encourage re-vegetation.

Vadose zone delineation activities from 13 trenched sample locations within the impacted area during earlier investigations have shown that the chloride concentration averaged only 340 mg/kg. Based on those findings it is evident that the chloride load in the vadose zone is at a level too low to suggest any significant contribution to the chloride concentrations observed in the groundwater at the site.

Groundwater in this area of Monument, New Mexico, has been reported as regionally impacted with chlorides and unusable as early as 1952 (Nicholson and Clebsch, Groundwater Report 6). Evidence of potential upgradient offsite sources, onsite groundwater monitoring, and vadose zone characterization support the conclusion that the elevated chloride and TDS concentrations in the groundwater at the site are the result of off-site sources and/or historical regional groundwater impairment.

We propose to continue sampling monitoring wells P6-1, P6-2, P6-3, and P6-4. In addition, vegetation will be monitored for growth and amendments added if necessary. If quarterly sampling results continue to support the conclusions described above, and vegetation improves at its natural rate, a request for closure of the Rule 19 regulatory file associated with this site will be submitted to the NMOCD in the first quarter of 2008.

# **APPENDIX A**

NMOCD CORRESPONDENCE

From: "Hansen, Edward J., EMNRD" <edwardj.hansen@state.nm.us>
To: "Gilbert Van Deventer" <qilbertvandeventer@cox.net>; "Kristin Pope"

<kpope@riceswd.com>

Cc: "Carolyn Haynes" <chaynes@riceswd.com>; "Price, Wayne, EMNRD"

<wayne.price@state.nm.us>
Subject: RE: EME P-6 (AP-45)

Date: Thursday, January 11, 2007 4:14 PM

Dear Mr. Van Deventer and Ms. Pope:

The NMOCD has reviewed the submitted data for the above referenced site. The NMOCD hereby approves proceeding with the proposed backfilling activities as reference below.

Also, please be advised that NMOCD approval of these activities does not relieve the owner/operator of responsibility should operations pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD approval does not relieve the owner/operator of responsibility for compliance with any OCD, federal, state, or local laws and/or regulations.

If you have questions regarding this matter, please contact me at 505-476-3489.

Edward J. Hansen Hydrologist Environmental Bureau

From: Gilbert Van Deventer [mailto:gilbertvandeventer@cox.net]

Sent: Tuesday, January 09, 2007 2:56 PM

To: Price, Wayne, EMNRD

Cc: Hansen, Edward J., EMNRD; Kristin Pope; Carolyn Haynes

Subject: Re: EME P-6 (AP-45)

### Wayne

We have completed the excavation activities at the EME P-6 Line Leak Site (AP-45) in accordance with the Stage 1&2 Abatement plan and your conditions to the minor amendment as copied below. The final size of the excavation is approximately 26 ft wide by 26 ft long by 16 ft deep which resulted in a total of approximately 400 cubic yards of soil. Of that total, 156 cubic yards of the more highly impacted excavated soil was transported to Cell C-1 at the South Monument Landfarm. The remaining excavated soil was spread out on site and was later blended with clean topsoil (dune sand) imported from the South Monument Landfarm. I was told by Kena Kay Cooper that her topsoil is the same soil that was used for the new racetrack (Zia Park) in Hobbs. The sampling procedures for the wall and floor samples were conducted in a manner consistent with the compositing protocol used by Rice Operating for typical junction box closure sites. Laboratory analytical results are summarized in the table below.

Sample Identification	Sample Date	Amount (yd3)	OVM (ppm)	Chloride (ppm)		DRO (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)
Floor	12/27/06	N/A	141	656	213	1209	0.016	0.034	0.117	0.363
Four Wall	12/27/06	N/A	45	432	15	514	<0.005	<0.005	0.017	0.006
Excavated Soil	12/22/06	168	874	336	1401	4134	<0.020	1.66	4.2	15.64
Remediated Soil	12/29/06	400	10	64	<10	115	<0.005	<0.005	<0.005	<0.015

A diagram showing the North-South cross-sectional profile of the proposed backfill procedure is attached for your review. Various photos of the activities and lab reports are attached as well. We now seek your approval to begin backfilling with the remediated soil and overlay it with a clay layer and topsoil.

Thanks - Gil

Gilbert J. Van Deventer, PG, REM

Trident Environmental

www.trident-environmental.com <a href="http://www.trident-environmental.com/">http://www.trident-environmental.com/</a>

Work/Mobile: 432-638-8740

Fax: 413-403-9968 Home: 432-682-0727

From: "Price, Wayne, EMNRD" <wayne.price@state.nm.us>
To: "Gilbert Van Deventer" <gilbertvandeventer@cox.net>

Cc: "Carolyn Haynes" <chaynes@riceswd.com>; "Kristin Pope" <kpope@riceswd.com>

Subject: RE: EME P-6 (AP-45)

Date: Wednesday, July 12, 2006 4:46 PM

Approved!

From: Gilbert Van Deventer [mailto:gilbertvandeventer@cox.net]

Sent: Wednesday, July 12, 2006 3:11 PM

To: Price, Wayne, EMNRD

Cc: Carolyn Haynes; Kristin Pope
Subject: Re: EME P-6 (AP-45)

### Wayne

Since it is on Jimmy Cooper property that additional monitoring well (P6-5 200 ft east) will require negotiation for access. To date Rice has had much trouble reaching agreement with Cooper and his attorneys for access on several sites. That area is also hard accessing due to deep sand. Per our conversation today we will proceed on a forward path and install the 2 MWs (P6-3 and P6-4) as proposed and we will update you as to the status of acquiring access for the subject well (P6-5) east of the site.

Proof of public notice was submitted on 01/30/06 and is attached.

Thank you, Gil

Gilbert J. Van Deventer, PG, REM, NMCS

R. T. Hicks Consultanyts, Ltd.

Work/Mobile: 432-638-8740

Fax: 413-403-9968 Home: 432-682-0727

---- Original Message -----

From: Price, Wayne, EMNRD <mailto:wayne.price@state.nm.us>
 To: Price, Wayne, EMNRD <mailto:wayne.price@state.nm.us> ;
Gilbert Van Deventer <mailto:gilbertvandeventer@cox.net> ; Kristin
Farris Pope <mailto:kpriceswd@valornet.com> ; Carolyn Doran Haynes
<mailto:cdhriceswd@valornet.com>

Cc: Johnson, Larry, EMNRD <mailto:larry.johnson@state.nm.us>

Sent: Wednesday, July 12, 2006 2:32 PM

Subject: RE: EME P-6 (AP-45)

Please note, OCD Santa Fe does not have a copy of the Public Notice for the P-6 Leak site. Please forward ASAP for out files.

---- Original Message -----

From: Price, Wayne, EMNRD < mailto: wayne.price@state.nm.us > To: Gilbert Van Deventer < mailto: gilbertvandeventer@cox.net > Cc: Johnson, Larry, EMNRD < mailto: larry.johnson@state.nm.us >

Sent: Wednesday, July 12, 2006 12:22 PM

Subject: RE: EME P-6 (AP-45)

OCD hereby approves of the Stage 1 & 2 plans with the following additional conditions:

- 1. One additional monitoring well named P6-5 shall be installed 200 feet due east of P-6-1.
- 2. Monitor wells P-1, 2, 3, 4, 5 and M5-1 shall be sampled and analyzed for BTEX and general chemistry. If BTEX is non-detect then OCD will considered eliminating this parameter in the future if no free oil is present.
- 3. All saturated or grossly contaminated soils and soils greater than 10,000 mg/kg shall be disposed of off-site at an OCD approved facility.
- 4. All soils remediated on site shall be in a maximum of 8 inch lifts, watered, properly tilled, amendments added if needed (fertilizer) and managed to prevent contamination run-off. Blending of soils will not be allowed until remedied soils demonstrate that the GRO component is essentially zero.
- 5. All remediated soils, remediated area soils, backfill soils, bottom hole and side wall soils shall be sampled and analyzed for TPH, BTEX and chlorides using approved EPA methods.
- 6. OCD shall review all analytical results and issue approval before excavated area is backfilled.
- 7. All soils used to backfill on top of the ET cap shall be clean native soils to support re-vegetation.
- 7. ROC shall submit an interim closure report to include the following:
  - a. All groundwater and soil results, photos, plot

plan with sample points indicated, groundwater gradient map, and any other pertinent information.

- b. Permission to backfill.
- c. A re-vegetation, groundwater monitoring and active restoration plan for OCD approval.

Please be advised that NMOCD approval of this plan does not relieve the owner/operator of responsibility should operations fail to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD approval does not relieve the owner/operator of responsibility for compliance with any OCD, federal, state, or local laws and/or regulations.

From: Gilbert Van Deventer [mailto:gilbertvandeventer@cox.net]

Sent: Monday, July 10, 2006 2:26 PM

To: Price, Wayne, EMNRD Subject: Fw: EME P-6 (AP-45)

We are scheduled to do some drilling at the N-5 and K-6 sites starting next week. Was hoping to hear your response and approval for the P-6 site as requested on June 27th so that we could use the same drillers to install 2 MWs at P-6. Otherwise it's real hard to schedule them until a much later date.

Thanks,

Gil

Gilbert J. Van Deventer, PG, REM, NMCS R. T, Hicks Consulting, Ltd. Work/Mobile: 432-638-8740

Fax: 413-403-9968 Home: 432-682-0727

---- Original Message -----

From: Gilbert Van Deventer < mailto:gilbertvandeventer@cox.net>

To: Price, Wayne, EMNRD < mailto: wayne.price@state.nm.us>

Sent: Tuesday, June 27, 2006 10:19 AM

Subject: Re: EME P-6 (AP-45)

Hello Wayne. Per your request and comments in your email on May 26, 2006, ROC proposes the following minor modifications to the P-6 Stage 1 Abatement Plan:

Stage 1 (investigation). ROC proposes to install additional monitoring wells at the P-6 Line Leak Site as follows:

- \* one upgradient (~165 ft NE of P6-1 monitoring well), and
- tone downgradient (~220 ft south of P6-1 monitoring well)

Since there already is a monitoring well cluster at the M-5 SWD site located approximately 500 ft downgradient (southeast) of the P6-1 monitoring well we see no need for another downgradient well in that direction. Access for a drill rig in any other areas near this site is extremely difficult due to the presence of dunes and would be detrimental to the existing vegetation and landscape if an attempt were to be made. ROC has had bad experience moving heavy equipment in this area and has even had dozers get stuck in the sand. A site map is attached showing the proposed locations of the 2 monitoring wells. The additional wells as proposed, and the installation of monitoring wells for two nearby sites (K-6 and N-5) that are in the Stage 1 Abatement Plan process will provide the necessary data for full characterization.

Stage 2 (abatement). With regard to soil excavation, remediation, backfilling and disposal, ROC proposes the following:

Excavated soil with total TPH (GRO+DRO) greater than 10,000 mg/kg will be transported to an NMOCD-approved facility for disposal. Excavated soil with TPH above 1,000 mg/kg but less than 10,000 mg/kg) will be remediated on site by spreading on the surface no deeper than 18-inches thick to allow aeration and then blending them with native soil prior to use as backfill. After excavating the impacted area to a depth of 12 feet, soils with a total TPH (GRO + DRO) of less than 1,000 mg/kg and chloride concentrations less than 750 mg/kg will be used as backfill to a depth of no more than 5 feet below ground surface. Current field sampling results indicate chloride concentrations no greater than 750 mg/kg at 12 ft below ground surface. A 10-12 inch thick uncompacted clay layer, will be installed five feet below ground surface. An uncompacted clay layer is preferred over a compacted layer so as to promote a more efficient evapotransporation barrier. Above the clay layer, remediated soil with total TPH and chloride concentrations less than 1,000 mg/kg will be used as backfill and contoured to match the surrounding terrain.

On June 7th, ROC received approval from the BLM for site access and monitoring well installations at the nearby K-6 and N-5 sites so it would be convenient to include the P-6 investigation at the same time a drill rig is scheduled for all 3 sites (week of July 17th). With your concurrence of the actions proposed above ROC is ready to proceed. Please contact Kristin Pope at 505-393-9174 or myself at 432-638-8740, if you have any questions regarding this minor modification.

Sincerely,

Gilbert J. Van Deventer, PG, REM R. T. Hicks Consultants Ltd. Work/Mobile: 432-638-8740

Fax: 413-403-9968 Home: 432-682-0727 ---- Original Message ----

From: Price, Wayne, EMNRD

<mailto:wayne.price@state.nm.us>

To: Kristin Pope <mailto:kpope@riceswd.com>
Co: qil@rthicksconsult.com ; Carolyn Haynes

<mailto:cdhriceswd@valornet.com> ; Johnson, Larry, EMNRD

<mailto:larry.johnson@state.nm.us>

Sent: Friday, May 26, 2006 4:04 PM

Subject: RE: EME P-6 (AP-45)

The Rice Operating Company (ROC) stage 1 & 2 plan dated July 12, 2005 for the EME P-6 line leak site is deficient in the following areas:

Stage 1 (investigation). There is only one on-site monitor well. Please submit a plan to have at least three more monitor wells installed that are closer to the site. One of the wells shall be located approximately 100 feet up-gradient of the original spill site. The previous information submitted shows a large variance in the area groundwater gradient. This may be due to the fact the wells proposed are to far apart. There were no local iso-concentration maps provided to identify the chloride (TDS) plume.

Stage 2 (abatement). The excavation plan section 7.1 page 9 does not provide definitive information on excavation and disposal. The last sentence reads 'Soil with GRO or DRO levels above 1000 mg/kg shall be hauled to an NMOCD-approved facility or remediated on site."

ROC did not provide a detail explanation of what soils will be disposed of off-site and what soils will be remediated. There is no explanation on how the soils will be remediated. On Page 10 one sentence reads "The backfill (above and below the clay liner) will be composed of blended or remediated soil that will support vegetation". ROC did not provide any documentation of what levels of constituents will be present in the soils above and below the liner.

 $\,$  Please submit a modified plan within 30 days and proof of public notice.

From: Kristin Pope [mailto:kpope@riceswd.com]

Sent: Wednesday, May 24, 2006 10:08 AM

To: Price, Wayne, EMNRD

Cc: gil@rthicksconsult.com; Carolyn Haynes

Subject: EME P-6 (AP-45)

Wayne,

At our last meeting on March 30 in Hobbs, you reviewed the Stage 1&2 Abatement Plan for the EME P-6 Release Site (AP-45) submitted by Gil Van Deventer. At that meeting, you said that you'd like to review the submission in depth and also involve the District 1 office. Can you give us any feedback yet? Thanks.

Kristin Farris Pope Project Scientist RICE Operating Company Hobbs, New Mexico (505) 393-9174

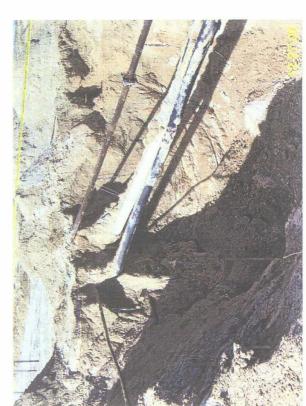
Confidentiality Notice: This e-mail, including all attachments is for the sole use of the intended recipient(s) and may contain confidential and privileged information. Any unauthorized review, use, disclosure or distribution is prohibited unless specifically provided under the New Mexico Inspection of Public Records Act. If you are not the intended recipient, please contact the sender and destroy all copies of this message. -- This email has been scanned by the Sybari - Antigen Email System.

# **APPENDIX B**

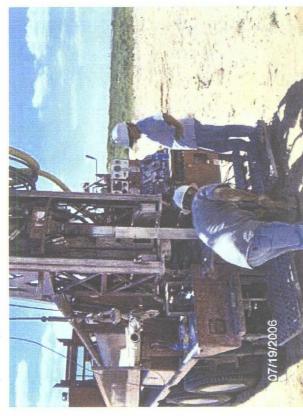
**PHOTO-DOCUMENTATION** 



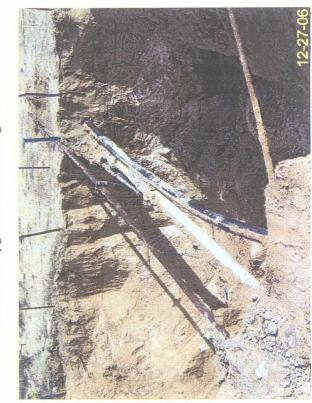
View facing north showing recently completed installation of downgradient monitoring well P6-3.



View of west wall of excavation.



View facing northwest showing drilling activities for upgradient monitoring well P6-4.



View of east wall of excavation.



View of south wall of excavation.



View facing northeast showing floor of excavation (16 feet below ground surface).



View of north wall of excavation.



View facing south showing backfilling and tamping of blended soil on south side of excavation.



View facing south showing completion of lower backfill layer (blended soil) on south side of excavation.



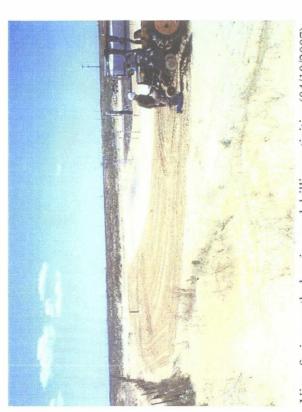
View facing north showing completion of 1-foot clay layer and density testing.



View facing north showing clay tamping activity on north side of excavation.



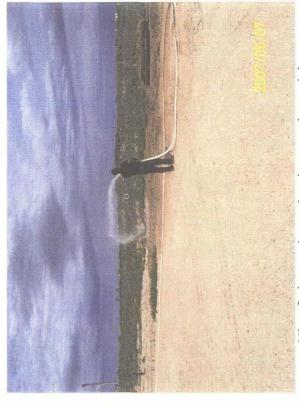
View facing north showing completion of excavation and backfilling activities.



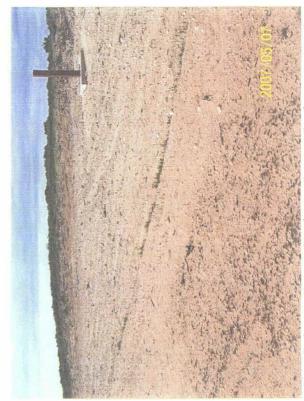
View facing south showing seed drilling activities (04/10/2007).



Close-up view showing early healthy growth of grass seed mix.



View facing northeast showing watering activity.



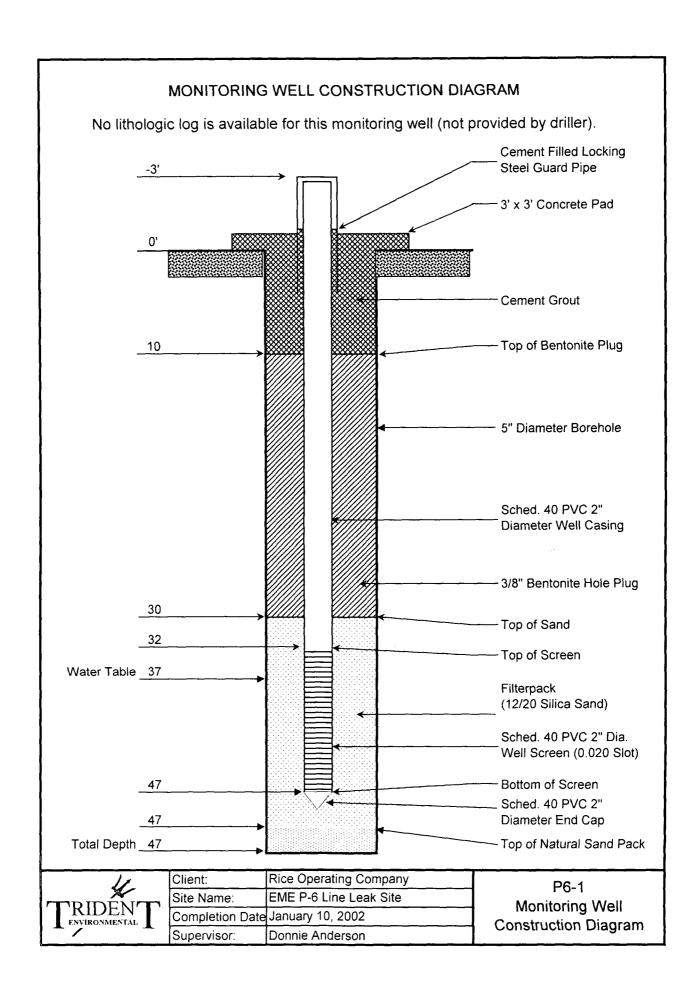
View facing northwest showing early growth of grass seed mix.

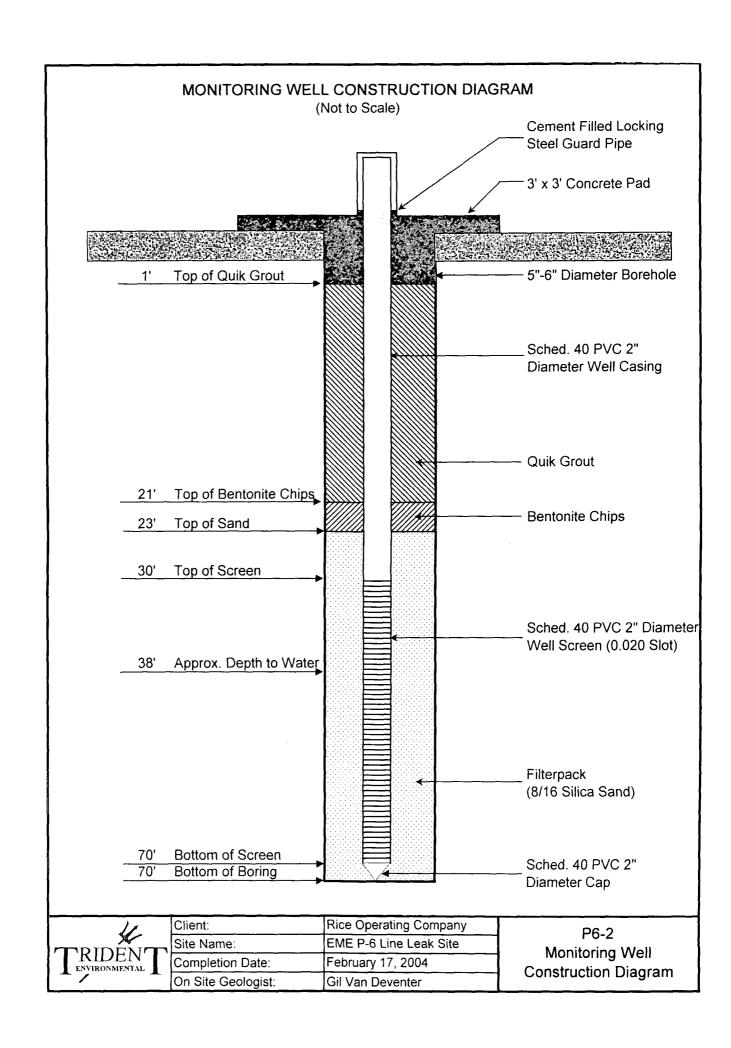
## **APPENDIX C**

## **LITHOLOGIC LOGS**

## AND

# MONITORING WELL CONSTRUCTION DIAGRAMS







PO BOX 7624

MONITOR WELL NO .:

P6-2 SITE ID: EME P-6

SURFACE ELEVATION: CONTRACTOR: DRILLING METHOD:

3557.0 Atkins Engineering Associates Inc. Hollow Stem Auger

START DATE: 02/17/04 **COMPLETION DATE:** 02/17/04 TOTAL DEPTH: 70 Feet CLIENT: Rice Operating Company COUNTY: Lea

Bottom of boring at 70 ft below ground surface.

STATE: New Mexico
CATION: T20S-R37E-Sec 6-Unit P LOCATION: FIELD REP.: G. Van Deventer

MIDLAND, TEXAS 79708 Located 637 ft north-northwest of P6-1 COMMENTS: Sample LITHOLOGIC DESCRIPTION: LITHOLOGY, COLOR, GRAIN SIZE, Chloride LITH. USCS SORTING, ROUNDING, CONSOLIDATION, DISTINGUISHING Depth Time Type (ppm) 1130 Surface Silty and very fine grained loamy sand, with caliche in matrix. Sand is Split Spoon moderate brown (5 YR 4/4), moderately well sorted with subrounded 5 1135 108 (4'-6')grains. Caliche is very pale orange (10YR 8/2), soft to slightly hard, and fills voids and small fractures within sand matrix. 80% sand, 20% SM/CL Split Spoon Silty fine grained sand, with caliche in matrix. Sand is moderate brown 10 1140 177 (9'-10')(5 YR 4/4), moderately well sorted with subrounded grains. Caliche is very pale orange (10YR 8/2), soft to slightly hard, and fills voids and small fractures within sand matrix. 60% sand, 40% caliche Split Spoon 15 1148 580 Same as above (14'-16')Hard caliche layer at 17 ft CAL Silty fine grained sand, with caliche in matrix. Sand is light brown Split Spoon 20 1153 (5 YR 6/4), moderately well sorted with subrounded grains. Caliche is 174 (19'-21') moderate pale orange (5YR 8/4), soft to slightly hard, and fills voids and small fractures within sand matrix. 50% sand, 50% caliche SM/CL Split Spoon Fine grained sand, with some clay and caliche in matrix. Sand is 25 1200 393 (19'-21') moderate brown (5 YR 4/4), moderately well sorted with subrounded grains. 80% sand, 10% clay, and 10% caliche Split Spoon Caliche and sand. Sand is fine-grained, light brown (5 YR 6/4), 1212 30 954 (29'-31')moderately well sorted with subrounded grains. Caliche is moderate pale orange (5YR 8/4), soft. 90% caliche, 10% sand. CAL/SM Caliche and clayey sand. Sand is fine-grained, light brown (5 YR 6/4), Split Spoon 35 1223 757 moderately well sorted with subrounded grains. Caliche is moderate (34'-36')pale orange (5YR 8/4), moderately hard. 70% caliche, 15% sand, and Groundwater encountered at approximately 37 ft below ground V Hard gravelly sand at groundwater interface. Fine grained sand with clay and caliche in matrix. Sand is moderate 1228 40 Cuttings brown (5 YR 4/4), moderately well sorted with subrounded grains. 50% sand, 30% caliche, and 20% clay 45 1236 Cuttings Same as above 1241 50 Cuttings Same as above SM/CL 55 1246 Cuttings Same as above 60 1252 Cuttings Same as above Sandy clay. Clay is pale yellowish brown (10YR 6/2) with high CL 1300 65 Cuttings plasticity. 70% clay, 30% sand Clay, moderately brown (5YR 4/4) with high plasticity. CH "Triassic redbed" 70 1319 Cuttings

		į					M	ONITOR WE	ELL NO.: P6-3 TOTAL DEPTH: 48 Feet					
									SITE ID: EME P-6 Line Leak CLIENT: RICE Operating Company					
								CONTR	ACTOR: Harrison & Cooper, Inc. COUNTY: Lea					
								DRILLING M	ETHOD: Air Rotary STATE: New Mexico					
1	P64	:    -						STAR	T DATE: 07/19/06 LOCATION: T20S - R37E - Sec 6 - Unit P					
	00	iP6-1					C	COMPLETIO	N DATE: 07/19/06 FIELD REP.: G. Van Deventer					
		i						COM	MENTS: Monitoring well located approx 240 feet south of P-6 line leak location and 58 ft west of fence					
	DC 2	i.		M5-1										
П	P6-3 •	1	1			Chlorida	DID							
H		114.	Dept	Sam	Туре	Chloride (ppm)	PID (ppm)	USCS	LITHOLOGIC DESCRIPTION:  LITHOLOGY, COLOR, GRAIN SIZE, SORTING, ROUNDING, CONSOLIDATION, DISTINGUISHING FEATUR					
		Ir	Ворс	111110	Surface	(ррін)	(PPIII)		Dark yellowish orange (10 YR 6/6) sandy loam, dune sand, fine-grained, well-sorted, subrounded grains, unconso					
					Gundoo			SW	dry					
!		-						SVV						
Cement		Cement		00			Dark yellowish orange (10 YR 6/6) and grayish orange (10YR 7/4) sand. Sand grains are very fine- to fine-grained							
ŏ		Ö	5	1300	Cuttings	86	0		moderately well sorted, subrounded, unconsolidated, dry.					
	bu	Bentonite Hole Plug												
	Casi		10	1305	Cuttings	115	0	01.	Light brown (5 YR 5/6) and pale yellowish brown (10YR 6/2) sand. Sand grains are very fine- to fine-grained, modi well sorted, subrounded, unconsolidated, dry.					
	ank		te Hole Plug	5n				-					SM	well sorted, subrodificed, difforisolidated, dry.
6n	/C BI													
le Pl	Sched 40 PVC Blank Casing													
te Ho	ber 4			15	1310	Cuttings	111	0		Light brown (5 YR 5/6) and grayish orange (10YR 7/4) sand. Sand grains are very fine- to fine-grained, moderately				
linotr									sorted, subrounded, unconsolidated, dry.					
3/8 Bentonite Hole Plug	2".	8 Ber												
3/1		3/8												
			20	1315	Cuttings	111	0	CNA/CA	Grayish orange (10YR 7/4) fine sand with very pale orange (10YR 8/2) indurated caliche in matrix. Sand grains are					
					.5-			SM/CAL	grained, moderately well sorted, subrounded, unconsolidated, dry.					
			-											
		1	25	1320	Cuttings	272	0		Light brown (5 YR 5/6) sand. Sand grains are very fine- to fine-grained, moderately well sorted, subrounded,					
			25	1020	Jumiya				unconsolidated, dry.					
								SM						
			W		0 #	571	571 0		Moist at 30 feet (groundwater)					
		V	30	1325	Cuttings	5/1	U		Worlst at 30 feet (groundwater)  Grayish orange (10YR 7/4) fine sand with very pale orange (10YR 8/2) calcium carbonate in matrix. Sand grains a					
									fine-grained, moderately well sorted, subrounded, unconsolidated, dry.					
	ts													
Pack	Slo	Pack	gard.											
Sand Pack	0.010	Sand	35	1330	Cuttings				Grayish orange (10YR 7/4) fine sand with very pale orange (10YR 8/2)calcium carbonate in matrix. Sand grains ar fine-grained, moderately well sorted, subrounded, unconsolidated, dry.					
ica S	Diameter Screen with 0.010" Slots	Silica S												
20/40 Brady Silica	een v	dy Sil												
Brac	r Scr	Brady						SM/CAL						
0/40	nete	20/40	40	1335					Grayish orange (10YR 7/4) fine sand with very pale orange (10YR 8/2)calcium carbonate in matrix. Sand grains al fine-grained, moderately well sorted, subrounded, unconsolidated, dry.					
2		2	-						inno-grained, medically well softed, subjourned, unconsolitated, dry.					
	2													
			45	1340					Grayish orange (10YR 7/4) fine sand with very pale orange (10YR 8/2)calcium carbonate in matrix. Sand grains ai					
									fine-grained, moderately well sorted, subrounded, unconsolidated, dry.					
	5" -	_ <u> </u>		1345					Bottom of boring at 48 ft below ground surface.					

	P6-2	į						M	ONITOP WE	LL NO.: P6-4	TOTAL DEPTH:	48 Feet																		
		i						1+10		SITE ID: EME P-6 Line Leak		RICE Operating Company																		
		į								ACTOR: Harrison & Cooper, Inc.	COUNTY:																			
		1								ETHOD: Air Rotary	STATE:	New Mexico																		
1	P64	i.							STAR	DATE: 07/19/06	LOCATION:	T20S - R37E - Sec 6 - Unit P																		
	88	du	ak					C	OMPLETION	DATE: 07/19/06	FIELD REP.:	G. Van Deventer																		
		jP6	-1		7:				COM	MENTS: Monitoring well located approx 100	feet north of P-6 line	leak location and 90 ft west of fenc																		
	P6-3 •	į			M5-1																									
F	10-3	-			Samp	nle	Chloride	PID		117	THOLOGIC DESCRIPTION	NAI-																		
9				Depth		Туре	(ppm)	(ppm)	USCS	LITHOLOGY, COLOR, GRAIN SIZE, SORTI																				
						Surface				Grayish orange (10YR 7/4) sandy loam, dune sal																				
									SW																					
nt .		nt -						-	18																					
Cement		Cement		5	1450	Cuttings	87	7		Grayish orange (10YR 7/4) sand. Sand grains an	e very fine- to fine-graine	d, moderately well sorted, subrounded,																		
0		O		- 5	1450	Cuttings	"	1		unconsolidated, dry.		000000000000000000000000000000000000000																		
	ing																										SM			
	Casing			10	1452	Cuttings	55	0		Light brown (5 YR 5/6) sand. Sand grains are verunconsolidated, dry.	y rine- to fine-grained, m	oderately well sorted, subrounded,																		
	Slank				·					-																				
Brill	VCE	3/8 Bentonite Hole Plug																												
3/8 Bentonite Hole Plug	Sched 40 PVC Blank																													
ite H	hed			15	1455	Cuttings	55	6		Grayish orange (10YR 7/4) fine sand with very page																				
notue	2" Sc		1							grained, moderately well sorted, subrounded, un- hard.	consolidated, dry. Calciur	n carbonate is finely dissemnlated, soft																		
/8 Be																														
(1)			60	60	(0)	6	3/	3	3	0	(1)	0	0	m																
				20	1458	Cuttings	85	0		Grayish orange (10YR 7/4) fine sand cemented v																				
																_		are fine-grained, moderately well sorted, subrour	ided, unconsolidated, dry											
							_																							
									25	1510	Cuttings	229	0	_	Grayish orange (10YR 7/4) fine sand cemented v															
										are fine-grained, moderately well sorted, subrour	nded, unconsolidated, dry	v.																		
		20/40 Brady Silica Sand Pack	Sand Pack							ll,	_	V	30	1520	Cuttings	419	0		Grayish orange (10YR 7/4) fine sand cemented v											
															1		- 20	20 Outtings			SM/CAL	are fine-grained, moderately well sorted, subrour								
																JIII OI L														
×	ots									Sand Pack	Sand Pack	1 Pack	1 Pack	1 Pack	1 Pack															
Pac	08															1 Pac	1 Pac	d Pac	d Pac	1 Pac	d Pac	1 Pac		35 1525 Cuttings (0	Grayish orange (10YR 7/4) fine sand with very pale orange (10YR 8/2)calcium carbonate in matrix. Sand grains are					
20/40 Brady Silica Sand Pack	Diameter Screen with 0.010" Slots												00	1020	Outings				fine-grained, moderately well sorted, subrounded		The state of the s									
ilica	with																													
sdy S	reen																													
0 Bra	er Sc		O Bra	0 Bra		40	1540					Gravish arange (19VD 7/4) For and array	with your pole occase (40)	VP 8/2) indurated callaba is matrix. Car																
20/4	mete			40	1540					Grayish orange (10YR 7/4) fine sand cemented vare fine-grained, moderately well sorted, subrour																				
	2" Dia																													
	CA								_																					
				45	1545					Grayish orange (10YR 7/4) fine sand cemented vare fine-grained, moderately well sorted, subrour																				
										and mine-grained, moderately well sorted, Subfour	idod, dricorisolidated, dry																			
	1				1550																									
			- 1																											

# **APPENDIX D**

**MANIFESTS** 

Manifest# 12633

# SOUTH MONUMENT SURFACE WASTE FACILITY

RICE OPERATING
122 W. TAYLOR

ORIGINATING LOCATION: EME – LEAK P-6 UNIT LETTER P

HOBBS, NM 88240	S6T20SR37E
TRANSPORTER NAME & ADDRESS:	
DESCRIPTION OF WASTE:	QUANITY:
NON-HAZARDOUS HYDRO-CARBONS	
FACILITY CONTACT:  CEYM  SIGNATURE OF CONTACT	12-29-06 DATE
CELL NUMBER MATERIAL PLACED IN:	<u>C-1</u> CELL
SIGNATURE OF TRANSPORTER:  X A CONSTRUCTION OF THE SIGNATURE	12-29-06 DATE
SOUTH MONUMENT SURFACE WASTE FACILITY P.O. BOX 418 HOBBS, NM 88241-0418	
CONTACT: KENA KAY COOPER (505) 392-1050 WORK (505) 390-3665 - CELL	
"As a condition of acceptance for disposal, I hereby certify that th Environmental Protection Agency (EPA). The waste are: general operations: exemptyfrom Resource Conservation and Recovery Action Levempt waste."	ted from oil and gas exploration and production
Line La Cope	12-29-06 DATE
FACILITY REPRESENTATIVE	DATE

Manifest#\_/2634

YDS.

## SOUTH MONUMENT SURFACE WASTE FACILITY

LEASE OPERATOR: **ORIGINATING LOCATION:** RICE OPERATING EME – LEAK P-6 122 W. TAYLOR UNIT LETTER P S6T20SR37E HOBBS, NM 88240 TRANSPORTER NAME & ADDRESS: **DESCRIPTION OF WASTE: QUANITY:** NON-HAZARDOUS HYDRO-CARBONS FACILITY CONTACT:

**CELL NUMBER MATERIAL PLACED IN:** 

SIGNATURE OF TRANSPORTER:

TRANSPORTER SIGNATURE

**SOUTH MONUMENT SURFACE WASTE FACILITY** P.O. BOX 418 HOBBS, NM 88241-0418

CONTACT:

KENA KAY COOPER

(505) 392-1050 WORK (505) 390-3665 - CELL

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by the Environmental Protection Agency (EPA). The waste are: generated from oil and gas exploration and production operations: exempt from Resource Conservation and Recovery Act (RCRA) Subtitle C Regulations: and not mixed with non exempt waste.

FACILITY REPRESENTATIVE

Manifest# 12655

# SOUTH MONUMENT SURFACE WASTE FACILITY

LEASE OPERATOR: RICE OPERATING 122 W. TAYLOR HOBBS, NM 88240 ORIGINATING LOCATION: EME – LEAK P-6 UNIT LETTER P S6T20SR37E

122 W. TAYLOR HOBBS, NM 88240	UNIT LETTER P S6T20SR37E
TRANSPORTER NAME & ADDRESS:	
DESCRIPTION OF WASTE:	QUANITY:
	17
NON-HAZARDOUS HYDRO-CARBONS	YDS.
FAGILITY CONTACT: /	
She I (CA)	12-2020-06
SIGNATURE OF CONTACT	DATE
CELL NUMBER MATERIAL PLACED IN:	0.1
CLL NUMBER MATERIAL PLACED IN:	CELL CELL
NONATHOE OF TOANGOODED	
SIGNATURE OF TRANSPORTER:	
x HITONG KRONG	12-29-06
TRANSPORTER SIGNATURE	DATE
SOUTH MONUMENT SURFACE WASTE FACILITY	ر است در این در دارش ماه میشد از داشته این در
P.O. BOX 418	
10BBS, NM 88241-0418	
CONTACT:	
KENA KAY COOPER	
(505) 392-1050 WORK	
(505) 390-3665 - CELL	
As a condition of acceptance for disposal, I hereby certify that this Invironmental Protection Agency (EPA). The waste are: generate perations; exempt from Resource Conservation and Recovery Act dn-exempt waste."	d from oil and gas exploration and production
You. I Come	12.29.06
FACILITY REPRESENTATIVE	12-29-06 DATE

# SOUTH MONUMENT SURFACE WASTE FACILITY

LEASE OPERATOR: RICE OPERATING 122 W. TAYLOR HOBBS, NM 88240

ORIGINATING LOCATION: EME – LEAK P-6 UNIT LETTER P

122 W. TAYLOR HOBBS, NM 88240	UNIT LETTER P S6T20SR37E
TRANSPORTER NAME & ADDRESS:	
DESCRIPTION OF WASTE:	QUANITY:
NON-HAZARDOUS HYDRO-CARBONS	
FACILITY CONTACT: /  SIGNATURE OF CONTACT	12-29-06 DATE
CELL NUMBER MATERIAL PLACED IN:	C-1 CELL
SIGNATURE OF TRANSPORTER:	
RANSPORTER SIGNATURE	12-29-06 DATE
OUTH MONUMENT SURFACE WASTE FACILITY P.O. BOX 418 IOBBS, NM 88241-0418	
CONTACT: KENA KAY COOPER 505) 392-1050 WORK 505) 390-3665 - CELL	
As a condition of acceptance for disposal, I hereby certify that this nyindamental Protection Agency (EPA). The waste are: generat perations; exempt from Resource Conservation and Recovery Acon-exempt waste.	ed from oil and gas exploration and production
Lone / Lepa	12-29-06 DATE
FACILITY REPRESENTATIVE	DATE

Manifest# \$ 12637

# SOUTH MONUMENT SURFACE WASTE FACILITY

LEASE OPERATOR: RICE OPERATING 122 W. TAYLOR HOBBS, NM 88240	ORIGINATING LOCATION: EME – LEAK P-6 UNIT LETTER P S6T20SR37E
TRANSPORTER NAME & ADDRESS:	
DESCRIPTION OF WASTE:	QUANITY:
NON-HAZARDOUS HYDRO-CARBONS	YDS.
FACILITY CONTACT:  CONTACT  SIGNATURE OF CONTACT	12-29-06 DATE
CELL NUMBER MATERIAL PLACED IN:	C-1 CELL
SIGNATURE OF TRANSPORTER:	
x Altongo Barra	12-24-06 DATE
TRANSPORTER SIGNATURE	DATE
SOUTH MONUMENT SURFACE WASTE FACILITY P.O. BOX 418 HOBBS, NM 88241-0418	
CONTACT: KENA KAY COOPER (505) 392-1050 WORK (505) 390-3665 - CELL	
"As a condition of acceptance for disposal, I hereby certify that this Environmental Protection Agency (EPA). The waste are: generated operations: exempt from Resource Conservation and Recovery Act	d from oil and gas exploration and production

FACILITY REPRESENTATIVE

DATE



# SOUTH MONUMENT SURFACE WASTE FACILITY

LEASE OPERATOR: RICE OPERATING 122 W. TAYLOR HORRS NM 88240 ORIGINATING LOCATION: EME – LEAK P-6 UNIT LETTER P

122 W. TAYLOR HOBBS, NM 88240	S6T20SR37E
TRANSPORTER NAME & ADDRESS:	
DESCRIPTION OF WASTE:	QUANITY:
NON-HAZARDOUS HYDRO-CARBONS	
FACULTY CONTACT:	
SIGNATURE OF CONTACT	1/2/07 DATE
CELL NUMBER MATERIAL PLACED IN:	C-1 CELL
SIGNATURE OF TRANSPORTER:	
x Altors Acres	1/2/07
TRANSPORTER SIGNATURE	DATE
SOUTH MONUMENT SURFACE WASTE FACILITY	
P.O. BOX 418 HOBBS, NM 88241-0418	
CONTACT: KENA KAY COOPER (505) 392-1050 WORK (505) 390-3665 - CELL	
"As a condition of acceptance for disposal, I hereby certify that thi Environmental Protection Agency (EPA). The waste are: generat operations: exempt from Resource Conservation and Recovery Ac	ed from oil and gas exploration and production
nord-exempt waste."	1-2-07
FACILITY REPRESENTATIVE	$\frac{-\sqrt{2}\sqrt{C}}{DATE}$



## SOUTH MONUMENT SURFACE WASTE FACILITY

LEASE OPERATOR:

ORIGINATING LOCATION:

EXIE = 1 EAK P-6

RICE OPERATING 122 W. TAYLOR HOBBS, NM 88240	EME – LEAK P-6 UNIT LETTER P S6T20SR37E
TRANSPORTER NAME & ADDRESS:	
DESCRIPTION OF WASTE:	QUANITY:
NON-HAZARDOUS HYDRO-CARBONS	YDS.
FACILITY CONTACT:  SIGNATURE OF CONTACT	\/2/07   <b>DATE</b>
CELL NUMBER MATERIAL PLACED IN:	C-1 CELL
SIGNATURE OF TRANSPORTER:	
TRANSPORTER SIGNATURE	N2/07 DATE
SOUTH MONUMENT SURFACE WASTE FACILITY P.O. BOX 418 HOBBS, NM 88241-0418	
CONTACT: KENA KAY COOPER (505) 392-1050 WORK (505) 390-3665 - CELL	
"As a condition of acceptance for disposal, I hereby certify that th Environmental Protection Agency (EPA). The waste are: generat operations; exempt from Resource Conservation and Recovery Ac non-exempt waste!"	ted from oil and gas exploration and production
Seme de Cope	1-2-07

FACILITY REPRESENTATIVE

DATE

Manifest#<u>\$ /26</u>40

# SOUTH MONUMENT SURFACE WASTE FACILITY

LEASE OPERATOR: RICE OPERATING 122 W. TAYLOR HOBBS, NM 88240	ORIGINATING LOCATION: EME – LEAK P-6 UNIT LETTER P S6T20SR37E
TRANSPORTER NAME & ADDRESS:	
DESCRIPTION OF WASTE:	QUANITY:
NON-HAZARDOUS HYDRO-CARBONS	YDS.
FAGILITY CONTACT:    En( ) (egg)  SIGNATURE OF CONTACT	1/2/9) DATE
CELL NUMBER MATERIAL PLACED IN:	C-1 CELL
SIGNATURE OF TRANSPORTER:	
X Allonso Pace 25 TRANSPORTER SIGNATURE	V207 DATE
SOUTH MONUMENT SURFACE WASTE FACILITY P.O. BOX 418 HOBBS, NM 88241-0418	
CONTACT: KENA KAY COOPER (505) 392-1050 WORK (505) 390-3665 – CELL	
"As a condition of acceptance for disposal, I hereby certify that the Environmental Protection Agency (EPA). The waste are: generate operations: exempt from Resource Conservation and Recovery Accordingly waste."	ed from oil and gas exploration and production

FACILITY REPRESENTATIVE

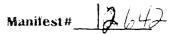
## **SOUTH MONUMENT SURFACE** WASTE FACILITY

LEASE OPERA	TOR:
RICE OPER	ATING
122 W. TAYL	.OR
HOBBS, NM	88240

**ORIGINATING LOCATION:** 

EME - LEAK P-6

122 W. TAYLOR HOBBS, NM 88240	S6T20SR37E
TRANSPORTER NAME & ADDRESS:	
DESCRIPTION OF WASTE:	QUANITY:
NON-HAZARDOUS HYDRO-CARBONS	
FACILITY CONTACT:  SIGNATURE OF CONTACT  STATEMENT OF CONTACT  STA	1/7/07 / DATE
ELL NUMBER MATERIAL PLACED IN:	C-1 CELL
IGNATURE OF TRANSPORTER:	
X Altonso Paris	1/7/107 DATE
SOUTH MONUMENT SURFACE WASTE FACILITY P.O. BOX 418 HOBBS, NM 88241-0418	
CONTACT: KENA KAY COOPER (505) 392-1050 WORK (505) 390-3665 - CELL	·
As a condition of acceptance for disposal, I hereby certify that the Environmental Protection Agency (EPA). The waste are: generations: exempt from Resource Conservation and Recovery Action - exempt waste!"	ed from oil and gas exploration and production
Losse (Cerse	1-2-07 DATE
SACILITY REPRESENTATIVE	DATE



# SOUTH MONUMENT SURFACE WASTE FACILITY

LEASE OPERATOR: RICE OPERATING 122 W. TAYLOR HOBBS, NM 88240	ORIGINATING LOCATION: EME – LEAK P-6 UNIT LETTER P S6T20SR37E
TRANSPORTER NAME & ADDRESS:	
DESCRIPTION OF WASTE:	QUANITY:
NON-HAZARDOUS HYDRO-CARBONS	YDS.
FACILITY CONTACT:	. 1/2/07
SIGNATURE OF CONTACT	DATE
CELL NUMBER MATERIAL PLACED IN:	C-1 CELL
SIGNATURE OF TRANSPORTER:	
X Honjo Dagie Transporter signature	1/7/07 1/DATE
SOUTH MONUMENT SURFACE WASTE FACILITY P.O. BOX 418 HOBBS, NM 88241-0418	
CONTACT: KENA KAY COOPER (505) 392-1050 WORK (505) 390-3665 - CELL	
"As a condition of acceptance for disposal, I hereby certify that the Environmental Protection Agency (EPA). The waste are: generationes; exempt from Resource Conservation and Recovery Acnowlessempt waste."	ed from oil and gas exploration and production

FACILITY REPRESENTATIVE

DATE

Manifest# 12/043

# SOUTH MONUMENT SURFACE WASTE FACILITY

LEASE OPERATOR: ORIGINATING LOCATION: RICE OPERATING EME - LEAK P-6 122 W. TAYLOR UNIT LETTER P HOBBS, NM 88240 S6T20SR37E TRANSPORTER NAME & ADDRESS: **DESCRIPTION OF WASTE:** QUANITY: NON-HAZARDOUS HYDRO-CARBONS YDS. FACILITY CONTACT: **CELL NUMBER MATERIAL PLACED IN:** C-1 CELL SIGNATURE OF TRANSPORTER: SOUTH MONUMENT SURFACE WASTE FACILITY P.O. BOX 418 HOBBS, NM 88241-0418 **CONTACT:** KENA KAY COOPER (505) 392-1050 WORK (505) 390-3665 - CELL

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by the Environmental Protection Agency (EPA). The waste are: generated from oil and gas exploration and production operations: exempt from Resource Conservation and Recovery Act (RCRA) Subtitle C Regulations: and not mixed with non-exempt waste."

FACILITY REPRESENTATIVE

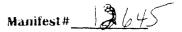
DATE

Manifest# 12644

# SOUTH MONUMENT SURFACE WASTE FACILITY

LEASE OPERATOR: RICE OPERATING 122 W. TAYLOR HORRS NM 88240 ORIGINATING LOCATION: EME – LEAK P-6 UNIT LETTER P

HOBBS, NM 88240	S6T20SR37E
TRANSPORTER NAME & ADDRESS:	
DESCRIPTION OF WASTE:	QUANITY:
NON-HAZARDOUS HYDRO-CARBONS	YDS.
FACILITY CONTACT:  SIGNATURE OF CONTACT	1/7 /07 DATE
CELL NUMBER MATERIAL PLACED IN:	C-1 CELL
SIGNATURE OF TRANSPORTER:	
X POOS PACE TRANSPORTER SIGNATURE	1/7/07 DATE
SOUTH MONUMENT SURFACE WASTE FACILITY P.O. BOX 418 HOBBS, NM 88241-0418	
CONTACT: KENA KAY COOPER (505) 392-1050 WORK (505) 390-3665 - CELL	
'As a condition of acceptance for disposal, I hereby certify that this waste Environmental Protection Agency (EPA). The waste are: generated from operations: exempt from Resource Conservation and Recovery Act (RCR non-exempt waste."	n oil and gas exploration and production (A) Subtitle C Regulations: and not mixed wi
FACILITY REPRESENTATIVE	1-2-07 DATE



# SOUTH MONUMENT SURFACE WASTE FACILITY

LEASE OPERATOR: RICE OPERATING 122 W. TAYLOR HORRS NM 88240 **ORIGINATING LOCATION:** 

C-1 CELL

EME – LEAK P-6 UNIT LETTER P S6T20SR37F

HOBBS, NM 88240	S6T20SR37E
TRANSPORTER NAME & ADDRESS:	
DESCRIPTION OF WASTE:	QUANITY:
NON-HAZARDOUS HYDRO-CARBONS	VDS.
FACILITY CONTACT: /  SIGNATURE OF CONTACT ()	1/2/07 DATE

SIGNATURE OF TRANSPORTER:

SOUTH MONUMENT SURFACE WASTE FACILITY *P.O. BOX 418* HOBBS, NM 88241-0418

**CELL NUMBER MATERIAL PLACED IN:** 

CONTACT: KENA KAY COOPER (505) 392-1050 WORK

(505) 390-3665 - CELL

TRANSPORTER SIGNATURE

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by the Environmental Protection Agency (EPA). The waste are: generated from oil and gas exploration and production operations; exempt from Resource Conservation and Recovery Act (RCRA) Subtitle C Regulations; and not mixed with non-exempt waste."

FACILITY REPRESENTATIVE

DATE



## **SOUTH MONUMENT SURFACE** WASTE FACILITY

LEASE OPERATOR: RICE OPERATING ORIGINATING LOCATION: EME - LEAK P-6

122 W. TAYLOR HOBBS, NM 88240	UNIT LETTER P S6T20SR37E
TRANSPORTER NAME & ADDRESS:	
DESCRIPTION OF WASTE:	QUANITY:
NON-HAZARDOUS HYDRO-CARBONS	YDS.
FACILITY CONTACT:	
Lex L (cope	V2h9
SIGNATURÉ ÒF'CONTACT	DATE
CELL NUMBER MATERIAL PLACED IN:	C-1
CELL HORSEN MALEMAN I PACED IN	CELL
SIGNATURE OF TRANSPORTER:	
x Altonia Barr	1/2/2
TRANSPORTER SIGNATURE	DATE
SOUTH MONUMENT SURFACE WASTE FACILITY P.O. BOX 418 HOBBS, NM 88241-0418	
CONTACT: KENA KAY COOPER (505) 392-1050 WORK (505) 200 2665 CEU	
(505) 390-3665 - CELL  "As a condition of acceptance for disposal, I hereby certify that this Environmental Protection Agency (EPA). The waste are: generate operations: exempt from Resource Conservation and Recovery Act	ed from oil and gas exploration and production
	1 2 27
FACILITY REPRESENTATIVE	DATE

SOUTH MONUMENT SURFACE WASTE FACILITY L.L.C. 7. 0. BOX 418

.224 E. CIMARRON

Justomer No:

DEBS

NM

98241-0418

505-391-8391

1845

- INVOICE -

INVOICE DATE

1/10/07

INVOICE NUMBER

250

DATE SOLD

SOLD BY

KENA KAY COOPER

CUST. P.O. NO.

RICE OPERATING CORPORATION

122 W. TAYLOR

HOBBS

NH 88240

TERMS NET 30 DAYS

Service charge of i 1/2% Per Month will be charged on all past due accounts.

\_ocation----- EME-LEAK P-6 UNIT LETTER P

	DESCRIPTION	AMOUNT
	Ticket # Date Ticket # Date Ticket # Date 7002001 1/02/07 DISFOSAL OF 168 YARDS NON-HAZARDOUS HYDROCARBONS	
	PLACED IN CELL C-1 AS PER ATTACHED MANIFESTS AND FURNISH 10 - 12 YARD LOADS BACKFILL DIRT.  12/29/06 MANIFEST #12633 - #12637 60 YARDS  1/02/07 MANIFEST #12638 - #12646 108 YARDS	
168.00 120.00	NON-HAZARDOUS HYDROCARBONS #11.00 /YD CLEAN FILL DIRT \$4.00 /YD	\$1848.00 \$480.00
	Invoice Sub-Totat> Gross Receipts Tax 5.375%>	\$2328.00 \$125.13
	DECEWED)	\$2 <b>453,</b> 13
	JAN 1 6 2007  BIOE OPERATING HOBBS, NM	PY
	823-9643 = \$1947.33 9444 = \$505.80	
	9444=\$505.80-	

Thank You King K. LASCON

## **APPENDIX E**

## **LABORATORY ANALYTICAL REPORTS**

AND

**CHAIN OF CUSTODY DOCUMENTATION** 

A Xenco Laboratories Company

# **Analytical Report**

## Prepared for:

Kristin Farris-Pope Rice Operating Co. 122 W. Taylor Hobbs, NM 88240

Project: EME P-6 Leak

Project Number: None Given

Location: T20S R37E Sec6 P ~ Lea County New Mexico

Lab Order Number: 7F11010

Report Date: 06/27/07

Rice Operating Co. 122 W. Taylor Hobbs NM, 88240 Project: EME P-6 Leak

Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
P6-1	7F11010-01	Water	06/06/07 13:15	06-11-2007 16:30
P6-2	7F11010-02	Water	06/06/07 12:30	06-11-2007 16:30
P6-3	7F11010-03	Water	06/06/07 14:45	06-11-2007 16:30
P6-4	7F11010-04	Water	06/06/07 14:00	06-11-2007 16:30



Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

# Organics by GC Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analy zed	Method	Notes
P6-3 (7F11010-03) Water									
Benzene	ND	0.00100	mg/L	1	EF71202	06/12/07	06/14/07	EPA 8021B	
Toluene	0.00201	0.00100	м		lt.	II .	п	н	
Ethylbenzene	ND	0.00100	и	,	п	H	er	n	
Xylene (p/m)	J [0.000852]	0.00100		и	"	R	и	II	
Xylene (o)	ND	0.00100	и	*	II .	H	ŧ	н	
Surrogate: a,a,a-Trifluorotoluene		104 %	80-	120	"	ı t	"	"	
Surrogate: 4-Bromofluorobenzene		90.2 %	80-	120	"	"	"	и	
P6-4 (7F11010-04) Water									
Benzene	ND	0.00100	mg/L	1	EF71202	06/12/07	06/14/07	EPA 8021B	
Toluene	0.00113	0.00100	a	и	п	it.	,,	и	
Ethylbenzene	ND	0.00100	H	н	н	и	н	"	
Xylene (p/m)	ND	0.00100	ø	*	и	п	и	n	
Xylene (o)	ND	0.00100	a	*	н	и	н	**	
Surrogate: a,a,a-Trifluorotoluene		98.4 %	80-	120	и	"	"	"	
Surrogate: 4-Bromofluorobenzene		89.0 %	80-1	120	"	u .	•	"	



Rice Operating Co. 122 W. Taylor Hobbs NM, 88240 Project: EME P-6 Leak

Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

## General Chemistry Parameters by EPA / Standard Methods Environmental Lab of Texas

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
P6-1 (7F11010-01) Water									
Total Alkalinity	320	2.00	mg/L	1	EF71403	06/14/07	06/14/07	EPA 310.1M	
Chloride	6720	250	b	500	EF71504	06/15/07	06/15/07	EPA 300.0	
Total Dissolved Solids	15200	10.0		1	EF71519	06/12/07	06/15/07	EPA 160.1	
Sulfate	1060	250	р	500	EF71504	06/15/07	06/15/07	EPA 300.0	
P6-2 (7F11010-02) Water									
Total Alkalinity	290	2.00	mg/L	1	EF71403	06/14/07	06/14/07	EPA 310.1M	
Chloride	4860	100	*	200	EF71504	06/15/07	06/15/07	EPA 300.0	
Total Dissolved Solids	10800	10.0	H	1	EF71519	06/12/07	06/15/07	EPA 160.1	
Sulfate	722	100	**	200	EF71504	06/15/07	06/15/07	EPA 300.0	
P6-3 (7F11010-03) Water									
Total Alkalinity	300	2.00	mg/L	l	EF71403	06/14/07	06/14/07	EPA 310.1M	
Chloride	7720	100		200	EF71504	06/15/07	06/15/07	EPA 300.0	
Total Dissolved Solids	18100	10.0	u	1	EF71519	06/12/07	06/15/07	EPA 160.1	
Sulfate	907	100	u	200	EF71504	06/15/07	06/15/07	EPA 300 0	
P6-4 (7F11010-04) Water	,								
Total Alkalinity	310	2.00	mg/L	1	EF71403	06/14/07	06/14/07	EPA 310 IM	
Chloride	5760	100	W-	200	EF71504	06/15/07	06/15/07	EPA 300.0	
Total Dissolved Solids	13200	10.0		1	EF71519	06/12/07	06/15/07	EPA 160.1	
Sulfate	933	100	п	200	EF71504	06/15/07	06/15/07	EPA 300 0	

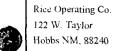
Rice Operating Co. 122 W. Taylor Hobbs NM, 88240 Project: EME P-6 Leak

Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

## Total Metals by EPA / Standard Methods Environmental Lab of Texas

<u> </u>		, - , - , - , - , - , - , - , - , - , -			<del></del> -				
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
P6-1 (7F11010-01) Water									
Calcium	940	40.5	mg/L	500	EF71902	06/19/07	06/19/07	EPA 6010B	
Magnesium	346	3.60	D	100	a a	**	я	n	
Potassium	30.9	0.600	4	10	н	ń		II .	
Sodium	2940	21.5	"	500	II	19	11		
P6-2 (7F11010-02) Water									
Calcium	687	40.5	mg/L	500	EF71902	06/19/07	06/19/07	EPA 6010B	
Magnesium	249	3.60	v	100	и	п	*	н	
Potassium	27.6	0.600		10	ss	8	*	н	
Sodium	2140	21.5	u	500	H	IT	•	9	
P6-3 (7F11010-03) Water									·
Calcium	1090	40.5	mg/L	500	EF71902	06/19/07	06/19/07	EPA 6010B	
Magnesium	348	3.60	H	100	n	н .	н		
Potassium	29.3	0.600	ы	10	n	ıı	н	"	
Sodium	3300	21.5	W	500	и	н	"		
P6-4 (7F11010-04) Water									
Calcium	817	40.5	mg/L	500	EF71902	06/19/07	06/19/07	EPA 6010B	
Magnesium	283	3.60	4	100	и	"		и	
Potassium	30.1	0.600		10	η	и	п	н	
Sodium	3140	21.5	а	500	п	n	P		



Project Number: None Given
Project Manager: Kristin Farris-Pope

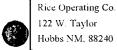
Fax: (505) 397-1471

## Organics by GC - Quality Control Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EF71202 - EPA 5030C (GC)										

Batch EF71202 - EPA 5030C (GC)								
Blank (EF71202-BLK1)				Prepared: 0	06/12/07 An	alyzed: 0	6/13/07	
Benzene	ND	0.00100	mg/L					
Toluene	, ND	0 00100	**					
Ethylbenzene	ND	0.00100	0					
Xylene (p/m)	ND	0.00100	u					
Xylene (o)	ND	0.00100	ч					
Surrogate: a,a,a-Trifluorotoluene	50.1		ug/l	50.0		100	80-120	
Surrogate: 4-Bromofluorobenzene	. 47.4		"	50.0		94.8	80-120	
LCS (EF71202-BS1)				Prepared: 0	06/12/07 An	alyzed: 0	6/13/07	
Benzene	0.0512	0.00100	mg/L	0.0500		102	80-120	
Toluene	0.0524	0 00100	u	0.0500		105	80-120	
Ethylbenzene	0.0519	0 00100	ıı	0.0500		104	80-120	
Xylene (p/m)	0 0991	0.00100		0 100		99.1	80-120	
Xylene (o)	0.0545	0.00100	,	0.0500		109	80-120	
Surrogate: a,a,a-Trifluorotoluene	50.6		úg∕I	50.0		101	80-120	
Surrogate: 4-Bromofluorohenzene	51.6		"	50.0		103	80-120	
Calibration Check (EF71202-CCV1)	,			Prepared: 0	06/12/07 An	alyzed: 0	6/14/07	
Benzene	0.0528		mg/L	0.0500		106	80-120	
Toluene	0.0524		14	0.0500		105	80-120	
Ethylbenzene	0.0497		ч	0.0500		99.4	80-120	
Xylene (p/m)	0.0942		ч	0.100		94.2	80-120	
Xylene (o)	0.0528		н	0.0500		106	80-120	
Surrogate: a,a, a-Trifluorotoluene	53.9		ug/l	50.0		108	80-120	
Surrogate: 4-Bromofluorobenzene	49.3		"	50.0		98.6	80-120	
Matrix Spike (EF71202-MS1)	Sou	rce: 7F08009-	05	Prepared: 0	06/12/07 An	alyzed: 0	6/14/07	
Benzene	0.0523	0.00100	mg/L	0.0500	ND	105	80-120	
Toluene	0.0533	0.00100	16	0.0500	0.000631	105	80-120	
Ethylbenzene	0.0493	0 00100	u	0.0500	ND	98.6	80-120	
Xylene (p/m)	0.0983	0.00100	n	0.100	ND	98.3	80-120	
Xvlene (o)	0 0546	0.00100	a	0.0500	ND	109	80-120	
Surrogate: a,a,a-Trifluorotoluene	52.9		ug/l	50.0		106	80-120	
Surrogate: 4-Bromofluorobenzene	49.1		**	50.0		98.2	80-120	

A Xenco Laboratories Company



Project Number: None Given

Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

## Organics by GC - Quality Control **Environmental Lab of Texas**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

#### Batch EF71202 - EPA 5030C (GC)

Matrix Spike Dup (EF71202-MSD1) Benzene	Som	Source: 7F08009-05			Prepared: 06/12/07 Analyzed: 06/14/07				
	0.0510	0.00100	mg/L	0.0500	ND	102	80-120	2.90	20
Toluene	0.0522	0.00100	it	0.0500	0.000631	103	80-120	1.92	20
Ethylbenzene	0.0507	0.00100	1¢	0.0500	ND	101	80-120	2.40	20
Xylene (p/m)	0 0964	0.00100	N	0.100	ND	96.4	80-120	1.95	20
Xylene (o)	0.0534	0.00100	Ħ	0.0500	ND	107	80-120	1.85	20
Surrogate: a,a,a-Trifluorotoluene	51.9		ug/l	50.0		104	80-120		
Surrogate: 4-Bromofluorobenzene	48.2		"	50.0		96.4	80-120		



Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

## General Chemistry Parameters by EPA / Standard Methods - Quality Control Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EF71403 - General Preparation (V	WetChem)									
Blank (EF71403-BLK1)				Prepared &	Analyzed:	06/14/07				
Total Alkalinity	ND	2.00	mg/L							
LCS (EF71403-BS1)				Prepared &	: Analyzed:	06/14/07				
Bicarbonate Alkalimity	170	2.00	mg/L	200		85.0	85-115			
Duplicate (EF71403-DUP1)	Sour	ce: 7F11010-	01	Prepared &	Analyzed:	06/14/07				
Total Alkalinity	320	2.00	mg/L		320			0.00	20	
Reference (EF71403-SRM1)				Prepared &	Analyzed:	06/14/07				
Total Alkalinity	250		mg/L	250		100	90-110		•	
Batch EF71504 - General Preparation (V	WetChem)				-					
<del></del>	WetChem)			D 10		0.544.540.7				
Batch EF71504 - General Preparation (V Blank (EF71504-BLK1) Sulfate	WetChem)	0.500	mg/L	Prepared &	Analyzed:	06/15/07				
Blank (EF71504-BLK1)		0.500	mg/L	Prepared &	Analyzed:	06/15/07				
Blank (EF71504-BLK1) Sulfate Chloride	ND			• -	Analyzed:					
Blank (EF71504-BLK1) Sulfate Chloride LCS (EF71504-BS1)	ND			• -	•		80-120			
Blank (EF71504-BLK1) Sulfate Chloride LCS (EF71504-BS1) Sulfate	ND ND	0.500	d.	Prepared &	•	06/15/07	80-120 80-120			
Blank (EF71504-BLK1) Sulfate Chloride LCS (EF71504-BS1) Sulfate Chloride	ND ND	0.500	mg/L	Prepared & 10.0	•	06/15/07				
Blank (EF71504-BLK1) Sulfate Chloride  LCS (EF71504-BS1) Sulfate Chloride  Calibration Check (EF71504-CCV1)	ND ND	0.500	mg/L	Prepared & 10.0	Analyzed:	06/15/07				
Blank (EF71504-BLK1) Sulfate Chloride LCS (EF71504-BS1) Sulfate Chloride  Calibration Check (EF71504-CCV1) Chloride	ND ND 10.1 9.83	0.500	mg/L "	Prepared & 10.0 10.0 Prepared &	Analyzed:	06/15/07 101 '98.3 06/15/07	80-120			
Blank (EF71504-BLK1) Sulfate Chloride LCS (EF71504-BS1) Sulfate Chloride Calibration Check (EF71504-CCV1) Chloride	ND ND 10.1 9.83	0.500	mg/L " mg/L	Prepared & 10.0 10.0 Prepared & 10.0	Analyzed:	06/15/07 101 '98.3 06/15/07 90.7 120	80-120 80-120			
Blank (EF71504-BLK1)	ND ND 10.1 9.83	0.500 0.500 0.500	mg/L " mg/L	Prepared & 10.0 10.0 Prepared & 10.0 10.0 10.0	Analyzed:	06/15/07 101 '98.3 06/15/07 90.7 120	80-120 80-120	0.00	20	

A Xenco Laboratories Company

Rice Operating Co. 122 W. Taylor Hobbs NM, 88240

Project: EME P-6 Leak

Project Number: None Given Project Manager: Kristin Farris-Pope Fax: (505) 397-1471

## General Chemistry Parameters by EPA / Standard Methods - Quality Control **Environmental Lab of Texas**

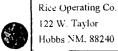
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch EF71504 - General Preparation (WetChem)	Batch	EF71504 -	General Preparati	ion (WetChem)
---	-------	-----------	-------------------	---------------

Duplicate (EF71504-DUP2)	Source: 7F11017-01 Prepared & Analyzed: 06/15/07									
Sulfate	76 7	5.00	mg/L		77.6			1.17	20	
Chloride	67.9	5.00	n		69.9			2.90	20	
Matrix Spike (EF71504-MS1)	Sourc	e: 7F11014-	01	Prepared &	ኔ Analyzed:	06/15/07				
Chloride	992	12.5	mg/L	2.50	731	104	80-120			
Sulfate	354	12.5	u	250	104	100	80-120			
Matrix Spike (EF71504-MS2)	Source	e: 7F11017-	01	Prepared &	Analyzed:	06/15/07				
Sulfate	1 74	5.00	mg/L	100	77.6	96.4	80-120			
Chloride	168	5.00	н	100	69.9	98.1	80-120			

#### Batch EF71519 - General Preparation (WetChem)

Blank (EF71519-BLK1)				Prepared: 06/12/07 Analyzed: 06/15/07		
Total Dissolved Solids	ND	10.0	mg/L			
Duplicate (EF71519-DUP1)	Sourc	e: 7F11009-	01	Prepared: 06/12/07 Analyzed: 06/15/07		
Total Dissolved Solids	24600	10 0	mg/L	23000	6.72	20
Duplicate (EF71519-DUP2)	Sourc	e: 7F11014-	03	Prepared: 06/12/07 Analyzed: 06/15/07		
Total Dissolved Solids	1380	10.0	mg/L	1340	2.94	20



Project Number: None Given

Fax: (505) 397-1471

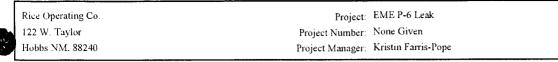
Project Manager: Kristin Farris-Pope

## Total Metals by EPA / Standard Methods - Quality Control **Environmental Lab of Texas**

							•			$\overline{}$
·		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EF71902 - 6010B/No Digestion							_			
Blank (EF71902-BLK1)				Prepared &	: Analyzed:	06/19/07				
Calcium	ND	0.0810	mg/L							
Magnesium	ND	0 0360	n							
Potassium	ND	0 0600	н							
Sodium .	ND	0.0430	12							
Calibration Check (EF71902-CCV1)				Prepared &	: Analyzed:	06/19/07				
Calcium	2.04		mg/L	2.00		102	85-115			
Magnesium	2.00		n	2.00		100	85-115			
Potassium	2.13		11	2.00		106	85-115			
Sodium	2.04		Ħ	2.00		102	85-115			
Duplicate (EF71902-DUP1)	Sour	ce: 7F11010-	01	Prepared &	: Analyzed:	06/19/07				
Calcium	956	40 5	mg/L		940			1.69	20	
Magnesium	337	3.60	и		346			2 64	20	
Potassium	29.9	0.600	29		30.9			3.29	20	
Sodium	2970	21.5	u		2940			1.02	20	





### Notes and Definitions

DET Analyte DETECTED Analyte NOT DETECTED at or above the reporting limit MD NR Not Reported dry Sample results reported on a dry weight basis Relative Percent Difference RPD LCS Laboratory Control Spike MS Matrix Spike Dup Duplicate

	Service .			
	1 July 28	-		
Report Approved By:	•		Date:	6/27/2007

Brent Barron, Laboratory Director/Corp. Technical Director Celey D. Keene, Org. Tech Director Raland K. Tuttle, Laboratory Consultant

James Mathis, QA/QC Officer Jeanne Mc Murrey, Inorg. Tech Director Fax: (505) 397-1471

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-563-1800.

# Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East Odessa, Texas 79765

Phone: 432-563-1800 Fax: 432-563-1713

TAT brabnate × × × × Lone Star □ NPDES RUSH TAT (Pre-Schedule) 24, 48, 72 hz ņ Project Loc: T20S R37E Sec6 P - Lea County New Mexico Total Dissolved Solids M.R.O.N TRRP ВС Labels on container(s)
Custody seals on container(s)
Custody seals on cooler(s) EME P-6 Leak Temperature Upon Receipt: × × VOCs Free of Headspace? BTEX 8021B/5030 Sample Containers Intact? Laboratory Comments Sample Hand Delivered Semiyolatiles Volatiles (BTEX-N 8260) X Standard Metals: As Ag Ba Cd Ct Pb Hg Se TOTAL SAR / ESP / CEC Anions (CI, SO4, Alkalinity) × × ₩ ₩ × × × Project Name: Cations (Ca. Mg, Na. K) × Report Format: 9001 XT 3001 XT нај Time 4.3685108 W\$108 1.814 Hdl Special Union S S S ĕ Š <u>≷</u> 10-11-9 Other (Specify) rozanne@valornet.com 39GH 1eftJ f (f) enoN COSSEN rozanne@valornet.com HOEN (505) 397-1471 'OS'H HCA (2) 40 ml glass vials N R HIO<sup>2</sup> ဆျ × 3 က otal #, of Containers Fax No: e-mail: 13:15 12:30 14:45 14:00 Time Sampled matt@riceswd.com kpope@riceswd.com 6/6/2007 6/6/2007 6/6/2007 6/6/2007 Received by: Date Sampled diged gaiba Hobbs, New Mexico 88240 RICE Operating Company 136 Ime Ē Rozanne Johnson (505)631-9310 Beginning Depth purvis@riceswd.com kpope@riceswd.com 122 W. Taylor Street Kristin Farris Pope CP/m(505) 393-9174 FIELD CODE lease email to Sampler Signature: Company Address: Project Manager: Company Name Telephone No: City/State/Zip: Special Instructions P6-2 07 P6-3 P6.4 8 Retinquished by: ORDER #: (lab use only) 7 C (ying eau dei) # 8A.

## Environmental Lab of Texas

	Variance/ Corrective Action Rep	port- Sample	e Log-Ir	1	
Ser .	Rice		- 0		
lient:					
ate/ Time:	6-11-07 mg 4.30				
ab ID#:	7F 11010				
niti <b>als</b> :	GL				
	144.00.00				
	Sample Receipt	Checklist			
				Client	Initials
1 Tempera	ature of container/ cooler?	(Yes)	Νo	చి. ద ిం	
2 Shipping	container in good condition?	<b>(€s)</b>	No		
3 Custody	Seals intact on shipping container/ cooler?	Yes	No	Not Present	
4 Custody	Seals intact on sample bottles/ container?	Xes)	No	Not Present	
5 Chain o	f Custody present?	res	No		
6 Sample	instructions complete of Chain of Custody?	Yes	No		
7 Chain of	f Custody signed when relinquished/ received?	Yes	No		
8 Chain o	f Custody agrees with sample label(s)?	Yes	No	ID written on Cont./ Lid	
9 Contain	er label(s) legible and intact?	(Pes)	No	Not Applicable	
10 Sample	matrix/ properties agree with Chain of Custody?	(Fes)	Nο		
11 Contair	ners supplied by ELOT?	Yes	No		
12 Sample	es in proper container/ bottle?	Yes	No	See Below	
13 Sample	es properly preserved?	Yês	No	See Below	
14 Sample	e bottles intact?	Yes	No		
15 Preser	vations documented on Chain of Custody?	Yes	No		
16 Contair	ners documented on Chain of Custody?	Yes	No		
17 Sufficie	ent sample amount for indicated test(s)?	Yes)	No	See Below	
18 All sam	ples received within sufficient hold time?	Yes	No	See Below	
19 Subcor	ntract of sample(s)?	Yes	No	Not Applicable	
	amples have zero headspace?	Yes	No	Not Applicable	
	Variance Docum	mentation			
Contact:	Contacted by:			Date/ Time:	
Regarding:					
Corrective A	ction Taken:				<del></del>
<del></del>					

Client understands and would like to proceed with analysis Cooling process had begun shortly after sampling event

See attached e-mail/ fax

Check all that Apply:

A Xenco Laboratories Company

# Analytical Report

## **Prepared for:**

Kristin Farris-Pope Rice Operating Co. 122 W. Taylor Hobbs, NM 88240

Project: NMOSE L-03810 Project Number: None Given

Location: T20S R37E Sec6 F ~ Lea County New Mexico

Lab Order Number: 7F11009

Report Date: 06/18/07

122 Hot

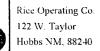
Rice Operating Co. 122 W. Taylor Hobbs NM, 88240 Project: NMOSE L-03810

Project Number: None Given
Project Manager: Kristin Farris-Pope

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
L-03810	7F11009-01	Water	06/06/07 13:00	06-11-2007 16:30

Fax: (505) 397-1471



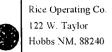
Project: NMOSE L-03810

Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

### General Chemistry Parameters by EPA / Standard Methods Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
L-03810 (7F11009-01) Water									
Chloride	10100	250	mg/L	500	EF71504	06/15/07	06/15/07	EPA 300.0	
Total Dissolved Solids	23000	10.0	н	1	EF71519	06/12/07	06/15/07	EPA 160.1	



Project: NMOSE L-03810

Project Number: None Given

Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

### General Chemistry Parameters by EPA / Standard Methods - Quality Control Environmental Lab of Texas

		D +i		e . 1.	G		A/DEQ		D DE	
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EF71504 - General Preparation (	WetChem)									
Blank (EF71504-BLK1)				Prepared &	Analyzed:	06/15/07		11100		
Chloride	ND	0.500	mg/L						<del></del> .	
LCS (EF71504-BS1)				Prepared &	: Analyzed:	06/15/07				
Chloride	9.83	0.500	mg/L	10.0		98 3	80-120			
Calibration Check (EF71504-CCV1)				Prepared &	: Analyzed:	06/15/07				
Chloride	9.07 .		mg/L	10.0		90.7	80-120			
Duplicate (EF71504-DUP1)	Sourc	e: 7F11014	01	Prepared &	: Analyzed:	06/15/07				
Chloride	734	12.5	mg/L		731			0 410	20	
Duplicate (EF71504-DUP2)	Sourc	e: 7F11017-	01	Prepared &	: Analyzed:	06/15/07				
Chloride	67.9	5 00	mg/L		69 9			2.90	20	
Matrix Spike (EF71504-MS1)	Sourc	e: 7F11014	01	Prepared &	: Analyzed:	06/15/07				
Chloride	992	12 5	mg/L	250	731	104	80-120			
Matrix Spike (EF71504-MS2)	Source	e: 7F11017-	01	Prepared &	: Analyzed:	06/15/07				
Chloride	168	5.00	.mg/L	100	69.9	98.1	80-120			
Batch EF71519 - General Preparation (V	WetChem)									
Blank (EF71519-BLK1)				Prepared: 0	6/12/07 Ar	nalyzed: 06	/15/07			
Total Dissolved Solids	ND	10.0	mg/L							
Duplicate (EF71519-DUP1)	Sourc	e: 7F11009-	01	Prepared: 0	6/12/07 Ar	alyzed: 06	/15/07			
Total Dissolved Solids	24600	10.0	mg/L		23000			6 72	20	

Project: NMOSE L-03810

Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

### General Chemistry Parameters by EPA / Standard Methods - Quality Control

### **Environmental Lab of Texas**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch EF71519 - General Preparation (WetChem)

Duplicate (EF71519-DUP2)	Source: 7	F11014-0	)3	Prepared: 06/12/07 Analyzed: 06/15/07	. ``	
Total Dissolved Solids	1380	10.0	mg/L	1340	2.94	20



Project: NMOSE L-03810

Project Number: None Given
Project Manager: Kristin Farris-Pope

### **Notes and Definitions**

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:

e en en en en en en en en

Date:

6/18/2007

Brent Barron, Laboratory Director/Corp. Technical Director Celey D. Keene, Org. Tech Director Raland K. Tuttle, Laboratory Consultant James Mathis, QA/QC Officer Jeanne Mc Murrey, Inorg. Tech Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-563-1800.

Fax: (505) 397-1471

# Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East Odessa, Texas 79765

Phone; 432-563-1800 Fax: 432-563-1713

1	t	1	- 1				Г		TAT DIE	OHEIC	×			Т		Т	ТТ	$\overline{}$	Т			<del></del>	<del></del>
		R	1	ES	Γ	J.	127.3	e 'ez femp	TAT (Pre-Sche				+	+	+	+	+	$\dashv$	$\dashv$	77	zzz	Star	ပ္
		Project Loc: T20S R37E Sec6 F ~ Lea County New Mexico		☐ NPDES	<u> </u>	T								$\dagger$					1			N N Lone Sta	-
1		8			1				səpi	Chlor	×									AF	D	8 9 9 9	_
		Z	Į		- 1			spilo	S bevlossiO	Total	×									Ų.	<b>,</b> ,,,,	,~, <u>8</u>	5.0
	-	E S		æ	1				.M.	Я.О.И													4)
		ea (		TRRP		<u> </u>	,		<del></del>	אכו				$\bot$	_				_		(s)	ž	
5		1-1			1	<b> </b>	09	S8 X3TB	10 0605\B1508					-			-	_	4	8: 8ct? 8ce?	arise.	P S	ceipt
Project Name: NMOSE L-03810		92			a 63	-	_			ovíma2			-	4		+	4		4	Laboratory Comments: Sample Containers Intact? VOCs Free of Headspace?	Labels on container(s) Custody seals on container(s) Custody seals on cooler(s)	Sample Hand Delivered by Sampler/Citent Reb. by Couner? UPS	Temperature Upon Receipt:
7		Σ.	l	ard	Analyze		20		: As Ag Ba Cd (		_			$\dashv$	$\dashv$		+	-	$\dashv$	omi ineri Hea	S on co	₹ 1	) Do
SE	- [	R37		X Standard			95	णम पत ग्	ESP/CEC	-+				+		+	+-		-	Zoge Soget Soget	con seals	land mple	ě
Ş		208		Ľ		TOTAL	-	luily)	(CI, SO4, Alkai					+	+	+	╀┥		-	rato ple C S Fre	s ody s	Se H V Sai	)era
<u>ا ک</u>	ii iii	ان	i ii		- 1	1	-		(Ca, Mg, Na.)				-+	$\dashv$	+	+	+	$\dashv$	-		abe. Suste	ams o	em
Ka E	Project#:	it Lo	PO #	nat:	- 1		一	3001 XT						$\dashv$	$\top$	+	+	十	+				
ect i	5	ojeć		For		1	128	08 M	S108 1.B1>	HGT					_	+		_	一		1.t.	يَّا	1.2 %
Proj		ō		Report Format:			ž	j <b>a</b>	Cokable Specify Quin	uon: dN	,								٦		4	[	7
				Reg	}		Matrix		ilożiiożą mandri		GW										5		Γ~
1	1	1	1	ı	ĺ		Н	····	ing Warm St.: Studge ( Specify)	-			-	$\dashv$		4	-	$\dashv$	-		)/	<b>8</b>	Date /
	Ì			1	틹				34CH 19fi J f (f		4-	Н	-	$\dashv$	-+	+	+	-	$\dashv$		2	F	Date (11.07
	-	į		l	rozanne@valornet.com		ienes.			SSSBM		$\vdash$	$\dashv$	+	+	+	+	$\dashv$	ᅱ	٤	<del>  `</del>	}	$\vdash$
					ബ		of Co			HOEN				_	$\dashv$	+	+	-	ᅥ	8			
Ì	ļ	Į	ļ	(505) 397-1471	읦		Preservation & 8 of Containers			'оѕ²н				7	_	+	1		7	rozanne@valornet.com			l
				7-1	è		SEIVE			HCI				7			$\top$			valc			
-				39	e e		قًا			HND									٦	8			
1				(3)	zar		Ц			901	×									an		]	)
				ত্র	2				of Containers	Total #	_									6	ه	4	7
İ							ļ		bened	Field Fil		_	$\vdash$	$\downarrow$		$\perp$	1		_		12	1	[ 2
				ax No.	e-mail.						0								1		1	}	12
				Š	φ				Sampled	9miT	13:00			ŧ						_	1 9	1	
팅				( )							-			- 1	-	1				Ö	\	1	10,00
9				1	$\lambda_{\perp}$						-		$\vdash$	$\dashv$	+		+	-	-	ceswd.com		u	by ELOT
AS.			7	7	$\leq$	$\geq$					007			1	1				Ì	ices	ر تر قا	à	à S
9				1	\ \	S	ľ		Sampled	et <b>e</b> C	6/6/2007								-	<u>Ģ</u>		28	1 C
kpope@riceswd.com	1	]		(1	$-\mathcal{J}$	H					9				- 1				١	matt@ri	Received by		Received
욁				1	\	X			Depth	Fugiu									7	-			
Š	ξ	Ì	24(		7	77.	2							$\dashv$	_		-		4		14.40	Ē	] ⊒e
	RICE Operating Company	-	Hobbs, New Mexico 88240	l	Rozanne Johnson (505)631-9310		1		rttqeQ gnin	nige8				ł					ļ	E 5	7	Γ	
မွ	S	122 W. Taylor Street	cicc		631	/									$\neg$	1			7	kpope@riceswd.com ipun/is@riceswd.com	7	7	1
Kristin Farris Pope	흔	S	Ve	4	509										-					MS-S	Colular Colular	73/x/27	Date
-SE	rati	윉	3	(505) 393-9174	LOS Son										-					9.09 7.00	3	4	
ā	g	E	ž	69	or o		-							-	- [					Zisi Z	-	+	<del>                                     </del>
Ë	Ш	3	bs,	5) 3	ě					щ										<b>A</b> <u>5</u>			
SI.S	읽	22	휭	50	oza		١			Ö				١	-						[		}
조	4	•	-	9	α <b>ς</b> [	Ι,				FIELD CODE								ĺ	1	± 5	۸ -	3	
e.:	ē	ress			Iture	'	짓	7		ᇤ				}			1	}		ems	11/1	1	<b>.</b>
nag	Nan	۸dd	ď.	ž	igna		S	7		1										) ge	$\mathbb{R}^{J}$		
Project Manager:	Company Name	Company Address:	City/State/Zip:	Telephone No:	Sampler Signature:		F1004	194407		Ì	0					1				ons: Please email to :	M	1	h
<u>je</u>	mpa	mpa	//St	eph	ğ	1		` "			L-03810				ĺ	1			1	₹ /\		ا پر ا	
Pro	ડે	ই	į	Ţ	Sar	ξ.	*				9					_			_  -	ម្តី / /	俸礦	8 1	8
						lab use only)	ORDER #:		fuo aca aca					T	T	1				pecial instructions:	IK E	Celinquished by	lelinquished by.
						ap I	띩	. (	(jsp nse oul)	# 44.1	0									ğ	Sanne 20	1 E	i i

Environmental Lab of Texas

vanance/ Corrective Action Re	port- Sampi	e Log-ir	1
Client: Kice			
ate/ Time: 611.07 4.30			
ab ID#: 7F 11 CO9			
itials: aL			
Sample Receipt	Checklist		
1 Temperature of container/ cooler?	AES	No	Client Initials
2 Shipping container in good condition?	(Yes)	No	)a ()
3 Custody Seals intact on shipping container/ cooler?	Yes	No	Not Present
4 Custody Seals intact on sample bottles/ container?	Yes	No	Not Present
5 Chain of Custody present?	(es)	No	110(1100)11
6 Sample instructions complete of Chain of Custody?	(res)	No	
7 Chain of Custody signed when relinquished/ received?	(Yes)	No	
8 Chain of Custody agrees with sample label(s)?	Yes	No	ID written on Cont./ Lid
9 Container label(s) legible and intact?	Yes	No	Not Applicable
10 Sample matrix/ properties agree with Chain of Custody?	(Fes	No	
11 Containers supplied by ELOT?	(eg	No	
12 Samples in proper container/ hottle?	Ves	No	See Below
3 Samples properly preserved?	(es)	No	See Below
14 Sample bottles intact?	(es	No	
15 Preservations documented on Chain of Custody?	Yes	No	
16 Containers documented on Chain of Custody?	Yes	No	
17 Sufficient sample amount for indicated test(s)?	Yes	No	See Below
#18 All samples received within sufficient hold time?	(es	No	See Below
19 Subcontract of sample(s)?	Yes	No	(Not Applicable)
#20 VOC samples have zero headspace?	Yes	No	Not Applicable
Variance Documents  Contact: Contacted by:  Regarding:	mentation		Date/ Time:
Corrective Action Taken:			
Check all that Apply:  See attached e-mail/ fax  Client understands and woul  Cooling process had begun			•

A Xenco Laboratories Company

# **Analytical Report**

### Prepared for:

Kristin Farris-Pope Rice Operating Co. 122 W. Taylor Hobbs, NM 88240

Project: EME M-5 SWD
Project Number: None Given

Location: T20S R37E Sec5 M ~ Lea County New Mexico

Lab Order Number: 7F11013

Report Date: 06/27/07

Project: EME M-5 SWD

Project Number: None Given

Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
M5-1s	7F11013-01	Water	06/07/07 13:55	06-11-2007 16:30
M5-1d	7F11013-02	Water	06/07/07 14:50	06-11-2007 16:30

Project: EME M-5 SWD

Project Number: None Given

Project Manager: Kristin Farris-Pope

### Organics by GC

# Reporting lyte Result Limit Units Dilution Ba

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
M5-1s (7F11013-01) Water									
Benzene	ND	0.00100	mg/L	1	EF71312	06/13/07	06/15/07	EPA 8021B	
Toluene	ND	0.00100	и	4	ij	II.	u	N	
Ethylbenzene	ND	0.00100	U	н	п	и	а	ü	
Xylene (p/m)	ND	0.00100	и	н	u	п	o o		
Xylene (o)	ND	0.00100	н	и	u	ıt	и	n	
Surrogate: a,a,a-Trifluorotoluene		102 %	80-12	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		86.6 %	80-12	0	"	"	"	"	
M5-1d (7F11013-02) Water									
Benzene	ND	0.00100	mg/L	1	EF71312	06/13/07	06/15/07	EPA 8021B	
Toluene	ND	0.00100	н	11	и	n	И	п	
Ethylbenzene	ND	0.00100	н	п	и	Hr.	М	n	
Xylene (p/m)	ND	0.00100	a	п		и	16		
Xylene (o)	ND	0.00100		л		н	19	II	
Surrogate: a,a,a-Trifluorotoluene		99.0 %	80-12	0	"	"	"	**	
Surrogate: 4-Bromofluorobenzene		87.8 %	80-12	0	"	"	"	"	



Fax: (505) 397-1471

Project: EME M-5 SWD

Project Number: None Given Project Manager: Kristin Farris-Pope Fax: (505) 397-1471

### General Chemistry Parameters by EPA / Standard Methods Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
M5-1s (7F11013-01) Water									
Total Alkalinity	290	2.00	mg/L	1	EF71403	06/14/07	06/14/07	EPA 310.1M	
Chloride	4960	100	ь	200	EF71504	06/15/07	06/15/07	EPA 300 0	
Total Dissolved Solids	11700	10.0	,	1	EF71519	06/12/07	06/15/07	EPA 160 I	
Sulfate	539	. 100	п	200	EF71504	06/15/07	06/15/07	EPA 300.0	
M5-1d (7F11013-02) Water									
Total Alkalinity	170	2.00	mg/L	1	EF71403	06/14/07	06/14/07	EPA 310.1M	
Chloride	6110	100		200	EF71504	06/15/07	06/15/07	EPA 300.0	
Total Dissolved Solids	16600	10.0		1	EF71519	06/12/07	06/15/07	·EPA 160.1	
Sulfate	371	100		200	EF71504	06/15/07	06/15/07	EPA 300.0	

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Project: EME M-5 SWD

Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

### Total Metals by EPA / Standard Methods Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
M5-1s (7F11013-01) Water			_	**********	· · · · · · · · · · · · · · · · · · ·				
Calcium	776	40.5	mg/L	500	EF71902	06/19/07	06/19/07	EPA 6010B	
Magnesium	230	3.60	u	100	n	u		n	
Potassium	27.5	0.600	и	10	n	п	н	И	
Sodium	2120	21.5	"	500	#	п	H	н	
M5-1d (7F11013-02) Water									
Calcium	955	40.5	mg/L	500	EF71902	06/19/07	06/19/07	EPA 6010B	
Magnesium	236	3.60	и	100	u	n	*	D	
Potassium	21.8	0.600		10	n .	12	н	н	
Sodium	1370	21.5	и	500	п	11	*	и	

Project: EME M-5 SWD

Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

### Organics by GC - Quality Control Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
	Acoust	Limit	cina	Devel	Result		Бишы		2,,,,,,,,	.10103
Batch EF71312 - EPA 5030C (GC)		_								
Blank (EF71312-BLK1)		· · · · · · · · · · · · · · · · · · ·		Prepared: 0	06/13/07 A	nalyzed: 06	5/15/07			
Benzene	ND	0.00100	mg/L							
l'oluene	ND	0.00100	al .							
Ethylbenzene	ND	0.00100	æ							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	п							
Surrogate: a,a,a-Trifluorotoluene	46.1		ug/l	50.0		92.2	80-120		~	
Surrogate: 4-Bromofluorobenzene	41.1		и	50.0		82.2	80-120			
LCS (EF71312-BS1)				Prepared: 0	6/13/07 A	nalyzed: 06	5/15/07			
Benzene	0 0508	0.00100	mg/L	0.0500		102	80-120			
Toluene	0 0522	0.00100	u	0.0500		104	80-120			
Ethylbenzene	0 0541	0 00100	a	0.0500		108	80-120			
Xylene (p/m)	0 0945	0.00100	ıı .	0.100		94.5	80-120			
Yylene (o)	0 0527	0.00100	U	0.0500		105	80-120			
Surrogate: a,a,a-Trifluorotoluene	49.2		ug/l	50.0		98.4	80-120			
Surrogate: 4-Bromofluorobenzene	47.4		"	50.0		94.8	80-120			
Calibration Check (EF71312-CCV1)				Prepared: 0	6/13/07 Ai	nalyzed: 06	/15/07			
Benzen <b>e</b>	0.0493		mg/L	0.0500		98.6	80-120			
Toluene	0 0501			0.0500		100	80-120			
Ethylbenzene	0.0485			0.0500		97.0	80-120			
Xylene (p/m)	0.0906		n	0.100		90.6	80-120			
Xylene (o)	0 0506		n	0.0500		101	80-120			
Surrogate: a,a,a-Trifluorotoluene	48.6		ug/l	50.0		97.2	80-120			
Surrogate: 4-Bromofluorobenzene	46.8		"	50.0		93.6	80-120			
Matrix Spike (EF71312-MS1)	Sou	rce: 7F12005-(	03	Prepared: 0	6/13/07 Ai	nalyzed: 06	/15/07			
Benzene	0.0494	0.00100	mg/L	0.0500	ND	98.8	80-120			
Foluene	0 0505	0.00100	n	0.0500	ND	101	80-120			
Ethylbenzene	0 0534	0 00100	11	0.0500	ND	107	80-120			
Kylene (p/m)	0.0936	0.00100	п	0.100	ND	93.6	80-120			
Kylene (0)	0.0523	0.00100	u	0.0500	ND	105	80-120			
Surrogale: a,a,a-Trifluorololuene	50.4		ug/l	50.0		101	80-120			
Surrogate: 4-Bromojluorobenzene	47.1		"	50.0		94.2	80-120			

Project: EME M-5 SWD

Project Number: None Given

Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

### Organics by GC - Quality Control Environmental Lab of Texas

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Matrix Spike Dup (EF71312-MSD1)	Sour	rce: 7F12005-	03	Prepared: 0	6/13/07 A	nalyzed: 00	6/15/07		
Benzene	0.0478	0.00100	mg/L	0.0500	ND	95.6	80-120	3.29	20
Toluene	0 0495	0 00100	u	0.0500	ŇD	99 0	80-120	2 00	20
Ethylbenzene	0 0523	0 00100	и	0.0500	ND	105	80-120	1 89	20
Xylene (p/m)	0.0913	0.00100	II .	0 100	ND	91.3	80-120	2.49	20
Xylene (o)	0.0506	0.00100	II	0.0500	ND	101	80-120	3.88	20
Surrogate: a,a,a-Trifluorotoluene	49.5		ug/l	50.0		99.0	80-120		<del> </del>
Surrogate: 4-Bromofluorohenzene	47.1		"	50.0		94.2	80-120		



Project: EME M-5 SWD

Project Number: None Given

Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

### General Chemistry Parameters by EPA / Standard Methods - Quality Control Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike	Source	%REC	%REC	RPD	RPD Limit	Notes
Analyte	Kesuit	Limit	Units	Level	Result	%KEC	Limits	KFD	Fillit	Notes
Batch EF71403 - General Preparation (V	WetChem)									
Blank (EF71403-BLK1)				Prepared &	: Analyzed:	06/14/07				
Total Alkalinity	ND	2.00	mg/L							
LCS (EF71403-BS1)				Prepared &	: Analyzed:	06/14/07				
Bicarbonate Alkalinity	170	2.00	mg/L	200		85.0	85-115			
Duplicate (EF71403-DUP1)	Sour	ce: 7F11010-	01	Prepared &	: Analyzed:	06/14/07				
Total Alkalinity	320	2.00	mg/L		320			0.00	20	
Reference (EF71403-SRM1)				Prepared &	: Analyzed:	06/14/07				
Total Alkalinity	250		mg/L	250		100	90-110			
Batch EF71504 - General Preparation (V	WetChem)									
Batch EF71504 - General Preparation (V Blank (EF71504-BLK1)	VetChem)			Prepared &	: Analyzed:	06/15/07				
Blank (EF71504-BLK1)	VetChem)	0 500		Prepared &	: Analyzed:	06/15/07				
Blank (EF71504-BLK1) Sulfate		0 500 0.500	mg/L	Prepared &	Analyzed:	06/15/07				
Blank (EF71504-BLK1) Sulfate Chloride	ND		mg/L	<u></u>	: Analyzed:					
Blank (EF71504-BLK1) Sulfate Chloride LCS (EF71504-BS1)	ND		mg/L	<u></u>			80-120			
Blank (EF71504-BLK1) Sulfate Chloride LCS (EF71504-BS1) Sulfate	ND ND	0.500	mg/L "	Prepared &		06/15/07	80-120 80-120			
	ND ND	0.500	mg/L " mg/L	Prepared & 10.0		06/15/07 101 98.3				
Blank (EF71504-BLK1) Sulfate Chloride LCS (EF71504-BS1) Sulfate Chloride Calibration Check (EF71504-CCV1)	ND ND	0.500	mg/L " mg/L	Prepared & 10.0	Analyzed:	06/15/07 101 98.3				
Blank (EF71504-BLK1) Sulfate Chloride LCS (EF71504-BS1) Sulfate Chloride Calibration Check (EF71504-CCV1) Chloride	ND ND 10.1 9.83	0.500	mg/L " mg/L	Prepared & 10.0 10.0 Prepared &	Analyzed:	06/15/07 101 98.3 06/15/07	80-120			
Blank (EF71504-BLK1) Sulfate Chloride  LCS (EF71504-BS1) Sulfate Chloride  Calibration Check (EF71504-CCV1) Chloride	ND ND 10.1 9.83	0.500	mg/L " mg/L "	Prepared & 10.0 10.0 Prepared & 10.0 10.0 10.0 10.0	Analyzed:	06/15/07 101 98.3 06/15/07 90.7 120	80-120 80-120			
Blank (EF71504-BLK1) Sulfate Chloride LCS (EF71504-BS1) Sulfate Chloride	ND ND 10.1 9.83	0.500	mg/L " mg/L "	Prepared & 10.0 10.0 Prepared & 10.0 10.0 10.0 10.0	Analyzed:	06/15/07 101 98.3 06/15/07 90.7 120	80-120 80-120	0.00	20 .	

Project: EME M-5 SWD

Project Number: None Given Project Manager: Kristin Farris-Pope Fax: (505) 397-1471

## General Chemistry Parameters by EPA / Standard Methods - Quality Control

	 <del></del>									-	ı
		Reporting		Spike	Source		%REC		RPD	Ì	ı
A malasta	Damilt	T imale	Limita	Larral	Donult	%ADEC	Limite	רומים	Limit	Notes	1

**Environmental Lab of Texas** 

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EF71504 - General Preparatio	n (WetChem)									
Duplicate (EF71504-DUP2)	Sou	rce: 7F11017-	01	Prepared &	Analyzed:	06/15/07				
Sulfate	76.7	5.00	mg/L		77.6			1.17	20	
Chloride	67.9	5 00	п		69.9			2.90	20	
Matrix Spike (EF71504-MS1)	Sou	rce: 7F11014	01	Prepared &	Analyzed:	06/15/07				
Chloride	992	12.5	mg/L	250	731	104	80-120		_	
Sulfate	354	12.5	н	250	104	100	80-120			
Matrix Spike (EF71504-MS2)	Sou	rce: 7F11017-	01	Prepared &	Analyzed:	06/15/07				
Sulfate	174	5 00	mg/L	100	77 6	96 4	80-120			
Chloride	168	5 00	11	100	69.9	98.1	80-120			
Batch EF71519 - General Preparatio	n (WetChem)									
Blank (EF71519-BLK1)	•			Prepared: (	06/12/07 A	nalyzed: 06	5/15/07			
Total Dissolved Solids	ND	10.0	mg/L					_		
Duplicate (EF71519-DUP1)	Sou	rce: 7F11009-	01	Prepared: 0	06/12/07 A	nalyzed: 00	5/15/07			
Total Dissolved Solids	24600	10.0	mg/L		23000			6.72	20	
Duplicate (EF71519-DUP2)	Sou	rce: 7F11014-	03	Prepared: (	06/12/07 Ai	nalyzed: 06	5/15/07			
Total Dissolved Solids	1380	10.0	mg/L		1340			2.94	20	

Project: EME M-5 SWD

Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

### Total Metals by EPA / Standard Methods - Quality Control Environmental Lab of Texas

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Analyte	Result	Limit	Units	Level	Result	*aREC	Limits	KPD	Liiiit	Notes
Batch EF71902 - 6010B/No Digestion	····									
Blank (EF71902-BLK1)				Prepared &	k Analyzed:	06/19/07				
Calcium	ND	0.0810	mg/L							
Magnesium	ND	0.0360	n							
Potassium	ND	0.0600								
Sodium	ND	0 0430	n							
Calibration Check (EF71902-CCV1)				Prepared &	k Analyzed:	: 06/19/07				
Calcium	2.04		mg/L	2.00		102	85-115			
Magnesium	2.00			2.00		100	85-115			
Potassium	2.13		n	2.00		106	85-115			
Sodium	2.04		"	2.00		102	85-115			
Duplicate (EF71902-DUP1)	Sour	ce: 7F11010-	01	Prepared &	k Analyzed:	: 06/19/07				
Calcium	956	40.5	mg/L		940			1.69	20	
Magnesium	337	3.60	n .		3-16			2.64	20	
Potassium	29.9	0.600	"		30.9			3.29	20	
Sodium	2970	21.5	н		2940			1.02	20	

Fax: (505) 397-1471 Project: EME M-5 SWD Rice Operating Co. 122 W. Taylor Project Number: None Given Hobbs NM, 88240 Project Manager: Kristin Farris-Pope

### **Notes and Definitions**

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

drv Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

Matrix Spike MS Duplicate

Dup

Report Approved By:

Brent Barron, Laboratory Director/Corp. Technical Director Celey D. Keene, Org. Tech Director Raland K. Tuttle, Laboratory Consultant

James Mathis, QA/QC Officer Jeanne Mc Murrey, Inorg. Tech Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-563-1800.

# Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East Odessa, Texas 79765

Phone: 432-563-1800 Fax: 432-563-1713

		g		ES	Γ		51	M SY ,	chedule) 24, 48	RAT HSUS TAT bisbnst	4	×	-	$\dashv$	十	_	1	+	1-	z	<b>z</b> 2	zzz	N N Lone Star	ņ
		Project Loc. T20S R37E Sec5 M - Lea County New Mexico		NPDES	T	T									$\sqsupset$						~		řě.	
		New			l	-									_					(8)	例	Ø	<u>\$</u> ≯,≅	4
		X S		n	1	}			Solids	.M.A.O. bevlossiQ listo		×			+				+-	}			a.	, V
		ပို	Ì	[] TRRP		ŀ				CI	+					-		-	+	1		<b>∵</b>	葀	
8		키				<u>"</u> t	×	Τ		7EX 80216/5030	× B	×				-		$\top$	+	- F	63	(8) (8)	<b>a</b> _	, <u>;</u>
5 5		\$			ľ	, E				eatitetovime	ş									事	Ispai	ontai ofer	<u>શ</u> ્ચી ટ્રે	, 0
EME M-5 SWD		8	l	Ď		Analyze For	_	_		N-X3T8) selifeto										E SE	ea-	2 2 <u>2</u> 2 3 <u>3</u>		9
E	ı	R37F		X Standard	ľ		a   _		d Cr Pb Hg	etals: As Ag Ba C	<del></del>				$\dashv$	_	_	4		S E	JC a	Sals Sals	note Hand Delivered by Sampler/Otent Red 2 by Courier? UPS	
		205		Ü		١	107 P	-	Annue	nions (CI, SO4, Al		×	ļ		_		$\dashv$			1 a a	Fre	2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	S S S	į
ا ية	i ¥≟	اَ⊣َ نِن	-   - ##					$\vdash$		ations (Ca, Mg, Na	<del></del>	÷	-	$\vdash$	-			$\dashv$	+	Laboratory Comments: Sample Containers Intact?	VOCs Free of Headspace?	Labels on container(s) Custody seals on container(s) Custody seals on coder(s)	Sample Hand Delivered by Sampler/Ofent Reby Courier?	Tomporative Unon Bacaint
Project Name:	Project #:	ct Lo	PO #	mat					8001 XT	2001 XT :He	~+				_			1	+	"				T
ject	9	roje		Report Format:	l		$oldsymbol{\perp}$	8\$	108 MSF	08 1'81≯ He	1												E E	Time
å		0.		ğ	1			ξ		Phone Specific	* >	>										<u> </u>	<u> </u>	-
				æ	ļ			Matrix		ui&=J& fakel galaeticl=) ui&=Beoundealer S=Soili	10	9 S										6	١.,	,
1	j	1	I		<u>ر</u> ا					Wher ( Specify)		_			+		-	_	+	1		Carte	Į.	Date
	ļ				<u>rozanne@valornet.com</u>			į	3d <b>K</b>	One (1) 1 Liter HD	v -	-								]		2		١.
					jet			Preservation & B of Containers	<b></b>	O <sub>2</sub> S <sub>2</sub> s	N .									ĕ				
				71	희			6.80		HOB								-		Į ğ				
				-14	Š/a			MVACION	SIPIA	<sup>2</sup> 20° CI (S) 40 wi 81922		7	<u> </u>	$\vdash$						퉏				
ŀ				(505) 397-1471	<u> </u>			Ţ	3,0,7	INO2		<u> </u>	H		-+			+		ozanne@valornet.com	,			
		Ì		(2)	au					ex:		×								l g				
	-			(5)	2				2	tal #. of Container	oT W	3								Į ž		9	1	
1			Į							id Fatered	N.3									]	1	14		
com				ERY No.	e-mail:					belqms2 этії	13.55	14:50				:				J.com			6	¢
kpope@riceswd.com					7		Ť			baldma2 afet	6/7/2007	6/7/2007								matt@riceswd.com		Received by	Received by:	Received by ELOT
g			اِ		1	1	1			riged Buibr	а												ĺ	Π
뵈	au		824		9	\	A			JdeO Brinnige	_				$\dashv$		-		+-	1		<u> </u>	Time	ime
	Ë	ğ	8		11-93		/	1	4	taeft paignine	4									8	8			L
8	0	Stre	exi	-	9296						İ									Swd	purvis@riceswd.com	//o/1/	2	192
<u>ي</u> ا	돭	힐	Σ	17.	OH (5	Γ							٠							Je l	Sign of		3	哲
acc	ber	Ţ3	Ş	33-65	phos															l g	VIS (0	3	3	$\vdash$
n F		اخ	Sc	36	Je J					ı	ַ ע				- 1					kpope@riceswd.com	ğ			
Kristin Farris Pope	RICE Operating Company	122 W. Taylor Street	Hobbs, New Mexico 88240	(505) 393-9174	ozan					Š					1					ļ		11		
<b>∡</b>	ır. İ		ㅗㅣ	끡	o2   'a:		•	$\hat{\omega}$	1		3									= to	إ	11	1 5	1
ğ	ē	Campany Address:		• •	Sampler Signature: Rozanne Johnson (505)631-9310			7511013	18 408 d	ì	[									ms: Please email to	1	((;		<u>}</u> -
Project Manager:	Company Name	Add	City/State/Zip:	Telephone No:	ğ		:	=	8							İ				ase	V	M	3	
ž	any	any	tafe	hor	<b>₽</b>		•	۲	6.7			_			1		1		1	P. P. B.		1,1		1
<u> </u>	dwc	duc	ty/S	<u>yep</u>	idu.						M5-1s	M5-1d								ucti		<u>}\</u> \\$	£ }	<u> </u>
ď.	ŏ	ŏ	Ö	Ţ	Š		Ę	*			Įž́				_	_		-	+-	in (	V		maushed by	Shed
							(lab use only)	ORDER #:	(Aju	io esu dai) # 8/	70	63							İ	Special Instructions:	$\bigvee$	Rozanne Johnson		Relinquished by
						Ŀ	€	ō							- 1		- 1	- 1	1	S		# #	<u></u>	楹

### Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

ient	Rice				
te/ Time: _	6.11.07 4:30				
b ID # :	7F11013			,	
itials:	al				
•	Sample Receipt	Checklist			
			<del></del>		Initials
	ure of container/ cooler?	(TES)	No	5.0°c	
	container in good condition?	YES	No		
	Seals intact on shipping container/ cooler?	(es)	No	Not Present	
Custody S	Seals intact on sample bottles/ container?	Yes	No	Not Present	
	Custody present?	(es)	No		
	structions complete of Chain of Custody?	(es)	No		
	Custody signed when relinquished/ received?	Yes	No		
	Custody agrees with sample label(s)?	res	No	ID written on Cont./ Lid	
	label(s) legible and intact?	es	No	Not Applicable	
10 Sample r	matrix/ properties agree with Chain of Custody?	765	No		
11 Containe	rs supplied by ELOT?	X##5	No		
12 Samples	in proper container/ bottle?	XES	No	See Below	
Samples	properly preserved?	Mes	No	See Below	
14 Sample l	bottles intact?	YES	No		
15 Preserva	tions documented on Chain of Custody?	Yes	Na		
16 Containe	ers documented on Chain of Custody?	Yes	No		
17 Sufficien	t sample amount for indicated test(s)?	Xes5	No	See Below	
18 All samp	les received within sufficient hold time?	Yes	No	See Below	
19 Subcont	ract of sample(s)?	Yes	No	Not Applicable	
20 VOC sar	mples have zero headspace?	Yes	No	Not Applicable	
	Variance Docur	mentation			
Contact:	Contacted by:			Date/ Time:	
Regarding:					
Corrective Act	tion Taken:				
theck all that	Apply: See attached e-mail/ fax				
- neck au mai	ADDIV.   1 See attached e-mail/ Tax				





PHONE (505) 393-2326 + 101 E MARLAND + HOBBS, NM 88240

ANALYTICAL RESULTS FOR RICE OPERATING CO. ATTN: GILBERT VAN DEVENTER 122 WEST TAYLOR HOBBS, NM 88240 FAX TO: (505) 397-1471

Receiving Date: 12/26/06 Reporting Date: 12/27/06

Project Number: NOT GIVEN Project Name: P-6 LINE LEAK

Project Location: T20S-R37E-SECTION 6-UNIT P

Sampling Date: 12/26/06

Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: LB

Analyzed By: LB

LAB NO.	SAMPLE ID	GRO (C <sub>6</sub> -C <sub>12</sub> ) (mg/Kg)	DRO (>C <sub>12</sub> -C <sub>28</sub> ) (mg/Kg)	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS	DATE:	12/26/06	12/26/06	12/26/06	12/26/06	12/26/06	12/26/06
H11938-1	P-6 WALL COMPOSITE	15	514	<0.005	< 0.005	0.017	0,006
H11938-2	P-6 FLOOR COMPOSITE	213	1209	0,016	0.034	0.117	0.363
Quality Cor	ntrol	921	899	0.089	0.092	0.095	0.309
True Value	QC	1000	1000	0.100	0,100	0.100	0.300
% Recover	у	92.1	89.9	89.9	92.0	95.0	103.0
Relative Pe	rcent Difference	9.4	4.9	6.0	4.8	5.7	6.3

METHODS: TPH GRO & DRO - EPA SW-846 8015 M; BTEX - SW-846 8021B.

Larry L. Bailey

Date

12/27/66



PHONE (505) 393-2326 + 101 E MARLAND + HOBBS, NM 88240

ANALYTICAL RESULTS FOR RICE OPERATING CO. ATTN: GILBERT VAN DEVENTER 122 WEŞT TAYLOR HOBBS, NM 88240 FAX TO: (505) 397-1471

Receiving Date: 12/26/06
Reporting Date: 12/27/06
Project Number: NOT GIVEN
Project Name: P-6 LINE LEAK

Project Location: T20S-R37E-SECTION 6-UNIT P

Analysis Date: 12/27/06 Sampling Date: 12/26/06 Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: LB

Analyzed By: LB

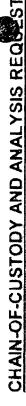
CIT LAB NO. SAMPLE ID (mg/Kg) H11938-1 P-6 WALL COMPOSITE 432 P-6 FLOOR COMPOSITE H11938-2 656 **Quality Control** 510 True Value QC 500 % Recovery 102 Relative Percent Difference 7.7

METHOD: Standard Methods 4500-Cl'B

NOTE: Analyses performed on 1:4 w/v aqueous extracts.

Chemist

Date



او

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

476	
3.2	
33	
(505) 393-247	
ax	
326	
3.2	ı
05) 39	
1x (915) 673-7020 (505) 393-2326 F	
7020	
-70	
673	
115)	
) X	
Ľ.	
3-700	
67	l
15)	
9	ı

Company Name:	],							
	127	4	WILL TO	9		₹	ANALYSIS REQUEST	
Project Manager:	6:100+7	•	P.O. #;					
Address:			Company: A. L.	1000 Fres 1				
City: M.	and State: To	Cip( :qiZ	0	3				
Phone #: 43 ( - 6.76	036 8740 Fax#:		Address: 12 2	11/2/				
Project #:	Project Owner:	<u>.</u>	City: A.th.		. 11,11,110,114			
Project Name: P. []	7-12 Line Leak		State: 1/1/2 Zip:	38.240	(			
Project Location:	T205-13376-50,1.00 6	Gris P	Phone #: 505-39 3-417 8	3.6/19.8	( E) ( 5 )			
6	Gil Van Deventer		Fax#: (35 39)	199-147,	08			
KOR LAB LISE ONLY		MATRIX	PRESERV SA	SAMPLING	7 (			
Lab I.D.	Sample I.D.	PABE OR (C)OMP. CONTRINERS COUNDWATER IL UDE OIL	НЕВ: 1000Г ID/BPSE:	,	80/0R0	ا الماديرة		
	P-6 Wall Compasite	# C 80 30 80 80 80 80 80	TO AC ICE	TE TIME	9 \ 9 \	) ,		
-2	Pil Floor lamposite	C -	1.4.66	16 14 15		,		
	Andrews and Andrew							The state of the s
And Commissional Control of the Cont	The second secon							
				The state of the s				
PLEASE MOTTE: (Latelle) and C straignes Alcutains strataggi	PLEASE MOTE: JACKET, WITCHINGTON CONTROLS SAFER, AND CONTROLS COLLEGE (MIND) IN AND AND WHITTHE DEED CONTROL OF INT. AND DE INMAND TO BE AND THE CHEET FOR the AND THE CHEET FOR the AND THE CHEET AND AND AND AND AND AND AND AND AND AND	comments whether based in contract or	tort, while be immed to the amount pe	and by the chart for the			Terms and Conditions. Interest will be charged on all accounts more han	COUNTS THOSE PORT
antibate (duta manti tima) Cuta alliantes (of mass especies as artango	univers, fours menti dandi Curazza nel bathe for scoperaz la sona especial annagas, adalamp es Illustics of bedictables antalgrad to for transfed to the performance of scribbin fedurate by Ca	dichaling william bestation, bearess restrictions, jose ander by Cardinal regardless at whether such count is	no received by Law Walls while I have a most comparated to the loss of loss of profits mounted by check, its substitutions for best of upon any of the above stated resistors or otherws.	or comparation of the apparent chest, its subsidiance. Intended or otherwise	ă		M days pass due of the fate of 24% per annear from the original date of innace and as coers of cohectors, including attorney's tests	ongrad date of monce
Sample/Keilngushed:	Shed: 7 26.71 Received By:	Received By:			ult: GRYess	0 N 0 N 0 N	Add'l Phone #: Add'l Fax #:	A COMMISSION OF THE PROPERTY O
Relinquished By:	Date:	Received By: (Lab Sta	Staff)	Plenie Er	1 0+11.00	Kp oper 1	Plaise enail to Kp extentine such com in wo	
	Time:	A THEORY SECTION SECTI			9.100.	formale	lenting cox.net	

CHECKED BY:

Sample Condition
Cool Intact

[]Yes []Yes

No || No

Sampler - UPS - Bus - Other: Delivered By: (Circle One)

<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476.





PHONE (505) 393-2326 + 101 E MARLAND + HOBBS, NM 88240

ANALYTICAL RESULTS FOR RICE OPERATING CO. ATTN: GILBERT VAN DEVENTER 122 WEST TAYLOR HOBBS, NM 88240 FAX TO: (505) 397-1471

Receiving Date: 12/22/06 Reporting Date: 12/27/06

Project Number: P-6 LINE LEAK Project Name: NOT GIVEN

Project Location: T20S-R37E-SECTION 6-UNIT P

Sampling Date: 12/22/06

Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: HM

Analyzed By: LB/AB

LAB NO.	SAMPLE ID	GRO (C <sub>6</sub> -C <sub>12</sub> ) (mg/Kg)	DRO (>C <sub>12</sub> -C <sub>28</sub> ) (mg/Kg)	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS	DATE:	12/26/06	12/26/06	12/26/06	12/26/06	12/26/06	12/26/06
H11935-1	EXCAVATED SOIL	1401	4134	<0.020	1.66	4.20	15,64
H11935-2	OVERBURDEN SOIL	221	1832	0.007	0.032	0.093	0.273
Quality Cor	atrol .	921	899	0.089	0.092	0.095	0.309
garre mayor Promotester	the first programme of the way the content of the c		1000	0.100			0.300
True Value		1000			0.100	0.100	
% Recover Relative Pe	y ercent Difference	92.1 9,4	89.9 4.9	89.9 6.0	92.0 4.8	95.0 5.7	103.0

METHODS: TPH GRO & DRO - EPA SW-846 8015 M; BTEX - SW-846 8021B.

Larry L. Bailey

12/27/06



PHONE (505) 393-2326 + 101 E MARLAND + HOBBS\_NM 88240

ANALYTICAL RESULTS FOR RICE OPERATING CO. ATTN: GILBERT VAN DEVENTER **122 WEST TAYLOR** HOBBS, NM 88240 FAX TO: (505) 397-1471

Receiving Date: 12/22/06 Reporting Date: 12/27/06

Project Number: P-6 LINE LEAK

Project Name: NOT GIVEN

Project Location: T20S-R37E-SECTION 6-UNIT P

Analysis Date: 12/26/06 Sampling Date: 12/22/06

Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: HM

Analyzed By: AB

CI LAB NO. SAMPLE ID (mg/Kg) H11935-1 **EXCAVATED SOIL** 336 H11935-2 **OVERBURDEN SOIL** 416 **Quality Control** 500 True Value QC 500 % Recovery 100 Relative Percent Difference 0.0

	All range continues on 1 and other	
METHOD: Standard Method	at	4500-CIB
The state of the s		and the second control of the second control
NOTE: A 1		

NOTE: Analyses performed on 1:4 w/v aqueous extracts.

in the second se	
Chemist	Date

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page of

2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240 (915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476

Company Name:	The second of th	1 /40			BILL TO				*	ANALYSIS	S REQUEST	EST		
Project Manager:		ř. c		P.O. #:			_							
Address:				Company:	12.40									
Cıty:	Stato	Zip:		Attn:			,							
Phone #:	Fax#;		of a commentation of the feature of	Address:	266.33				<del></del>					
Project#;	Project Owner	3f.	· (1941 - 1941) 李明祖《《 1942 - 1943 - 1944 - 1945 - 1945 - 1945 - 1945 - 1945 - 1945 - 1945 - 1945 - 1945 - 1945	City:	1		(							
Project Name:			A CATANGE AND A CANADA TO THE PARTY OF THE P	State:	. ; d <b>/2</b>	3	() ()							
Project Location.	n: T = 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1 =		The contraction of the contract of the contrac	Phone #:	1	ナニ	,	-7						
Sampler Name:			V THE CONTRACT OF THE CONTRACT	Fax #:	7.37	16.31	i E			·· ·· · · ·				
HOR WAS USE ONLY			MATRIX	PRESERV	RV SAMPLING	ING	<u>/</u> }	7		-				
Lab I.D.	Sample I.D.	CONTAINERS	ROUNDWATER WASTEWATER JOIL JUDE OIL	CID/BASE CID/BASE	· язнт( С Н	W S	190/0ys	THAT						
	700	_	S A	O    	$\perp 1$	1				+			<del> -</del>	T
1		1:	<u> </u>								-		-	to beautiful of
1.44		J	5	3	N 27 71	1								
1			_	,		2 1 366	``	1	_					
.2.7		1				1		)						-
20 000000000000000000000000000000000000							1							f I
the state of the s											10.00			***
										-	Management Controlled			
the decision pasting on manager is too and					And the second s									
PLEASE NOTE: LEASE, IN	and Sammer Conduct.				_			_						7
	THE CONTROL OF THE STATE OF COMES CONTROL OF THE STATE OF	ry dam aneg w	g whether based a corused or I utters reads a writing and so	nct or tort, what he furthed to the extrant pend by the chest for the restrictored by Constant within 30 days after corresponds of the eq	to the amount pend by other 30 degre when con	the deat for the gentless of the egolica	#			Terms and C	conditions: interes that of the take of	i we be charged un 24% per amountan	Terms and Conditions, litterest we be charged on all accourts inne Bah. 30 deys past due at the tate of 24% per among from the original date of photos.	owce.
A	ness, even a manufactura de labor los sebactios de consequental demagnes encluding a de secretarios es actualos paladas establent los tires perdocembases, e placer ocea, necesarios de la	ANDREAS BRITISAN	stating ordered britation, becames interruptions, loss of use, is loss of profits statiod by cheef, its extendered, Inter by Cartitol I regardless of whether such claim is based upon any of the above stated reasons of otherwise	fore of use, or loss of profits stated by calent, as extended in the contract of otherwise or based uses of the obose stated uses on otherwise	office inclusived by chord,	As extractioned.				and all costs	of coffections, exclu	and all costs of collections, exhabity othernay's less	,	
Sampler Kelinguished	Date	Recei	Received By:			Phone Result:				Add'l Phone #	#			
	Time:					Fax Result: REMARKS:	13	T .	□ No  Add"  Fax	Add'l Fax #	A. 1247	15.6 151 1 3) 30	Seed Car	<del></del>
Relinquished By:	Date:	Recei	red By: (Lab	Staff)		<u> </u>	Š			: અં	The state of the s	tomat	But bonde into best	*
Delivered By: (Circle One)	(Circle One)		Sample Condition	L	CHECKED BY-	ز.	i d	4	: :: :	11.3	12	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	( )	
Sampler - UPS - Bus - Other:	Bus - Other:		Cool Intact		(Initials)	<u> </u>		i i	<u>-</u>		: - -	: :		
			I No I I	- o										~

<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476.



PHONE (505) 393-2326 + 101 E MARLAND + HOBBS, NM 88240

ANALYTICAL RESULTS FOR RICE OPERATING CO. ATTN: KRISTIN POPE 122 W. TAYLOR HOBBS, NM 88240 FAX TO: (505) 397-1471

Receiving Date: 12/29/06

Reporting Date: 01/02/07

Project Number: P-6 LINE LEAK

Project Name: P-6 LINE LEAK

Project Location: T20S-R37E-SECTION 6-UNIT P

Sampling Date: 12/29/06

Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: BC

Analyzed By: HM/BC

LAB NO.	SAMPLE ID	Cl** (mg/Kg)	BENZENE (mg/Kg)	ŢOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS E	DATE:	01/02/07	12/29/06	12/29/06	12/29/06	12/29/06
H11956-1	MIXED SOIL	64	<0.005	<0.005	<0.005	<0.015
1						
Quality Cont	rol	480	0.105	0.097	0.102	0.310
True Value C		500	0.100	0.100	0.100	0,300
% Recovery		96.0	105	97.4	102	103
Relative Per	cent Difference	2.1	5.0	2.6	2.1	3.1

METHODS: CI' - Std. Methods 4500-CI'B; BTEX - EPA SW-846-8020 \*Analysis performed on a 1:4 w:v aqueous extract



PHONE (505) 393-2326 + 101 E MARLAND + HOBBS, NM 88240

ANALYTICAL RESULTS FOR RICE OPERATING CO. ATTN: KRISTIN POPE 122 W. TAYLOR HOBBS, NM 88240 FAX TO: (505) 397-1471

Receiving Date: 12/29/06 Reporting Date: 01/02/07

Project Number: P-6 LINE LEAK Project Name: P-6 LINE LEAK

Project Location: T20S-R37E-SECTION 6-UNIT P

Sampling Date: 12/29/06

Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: BC

Analyzed By: BC

		GRO	DRO
		(Ce-C10)	(>C <sub>10</sub> -C <sub>28</sub> )
LAB NUMBER	SAMPLE ID	(mg/Kg)	(mg/Kg)

ANALYSIS DA	NTE:	12/29/06	12/29/06
H11956-1	MIXED SOIL	<10.0	115
The state of the s		The second secon	and the second s
			American de la calacte de la c
Quality Contro	)	760	752
True Value Q0	Andrew Control of the control of the	800	800
% Recovery		95.1	94:0
Date D	ent Difference	~ ~ ~	2.8

METHOD: SW-846 8015 M

Survey A Com

Date



CHAIN-OF-CUSTODY AND ANALYSIS REQU

Page 1 of

ARDINAL LABORATORIES, INC.
2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240 (915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476

Company Name:	Bis Cheratin Company	OL 77/8	ANALYSIS REQUEST
Project Manager:	Nos 4, 802	P.O. #;	
Address: 12.2	in The Sec.	Company: Blee Open for Co.	
Cary:	55. State: 10 14 219: 75270	Attn: Krotin Pope	
Phone # 50	11	Address: 1220. Toylor St	
Project #;			
Project Name:	-6 Line Leak	State: 11/7 Zip: 88940	
Project Location	Project Location: TZCS-N376- Section & - Unit D	3 /	(8)
Sampler Name:	2.00	)	172
FURLING JOSE CHALT	MATRIX	Q	
Lab I.D.	SampleD. (G)RAB OR (C)OMP. *CONTRINERS GROUNDWATER SOIL SOIL SOIL	5248/0024 ВСЕ 1 СОО1 В НЕВ В НЕВ	79!-47 3) -131.51
ナジュー	7	Jaina 1610	
continuing production is			
The same of the sa			
To occupy the second se			
the same manager of the same pages and the same pag			
PLIASE JOTE CAMP	and Georgipes. Geralish katelity and theats suchame Issneyly to any dann ething whether busind in qualities of	denti-ening whether beand in outstack or loft, while lended to the arrange peopley the chees for the	Terms and Conditions; Interest we be charged on al actuaris mate frui
Charles of the system of the Charles	THE STATE OF STATE OF THE STATE OF STATES OF S	g and received by Castalana water) Stituens, who completes not the applicable one to the contract of the contract of the chiefe as the applicable.	NO days pair as the rise of 14% per prenty from the original dake of frunce, and us tusts, at collections, provided addersive free.
	The second secon	the state of the s	P. C. C. C. C. C. C. C. C. C. C. C. C. C.

ייני אות מוניים לא בייני אות מוניים אות הול לאחר האלים את הול לאחר האלים את הול לאחר האלים את הול האלים את האלים Received By:

2 albert vandeventer in Cex, net email results to: Kpopeerice subjection X Yes D No Add'I Phone 8: Phone Result: Fax Result: REMARKS: ECKED BY: Cool Infact

Kyes Nyes

No No Received By: (Lab Staff) Time: Tume: Delivered By: ICircle One) Sampler - UPS - Sus - Otner Relinquished By:

1. Cardinal cannot acceptiverbal changes. Please fax written changes to 505-393-2476.

# **APPENDIX E**

SEED MIX

# Operating Company

122 West Taylor • Hobbs. New Mexico 88240 Phone: (505)393-9174 • Fax: (505) 397-1471

### Homesteaders Choice

Curtis & Curtis, Inc.

Blue Grama

Hachita

Sideoats Grama

Vaughn

Western Wheatgrass

Arriba

Sand Dropseed

Buffalograss

Texoka

### Reclamation Mix

### Granite Seed Company

Western Wheatgrass

Indian Ricegrass

Blue Grama

California Poppy

Sideoats Grama

Galleta Grass

White Yarrow

Fourwing Saltbush

Yellow Bluestem

Alkali Sacaton

Rocky Mountain Penstemon

Blanket Flower

Little Bluestem

Lewis Blue Flax

Sand Dropseed

When seeding, ROC uses a 50/50 mixture of both above listed seeds: 1lb per every 1000sqtt; unless otherwise requested by the landowner

man of the property of a state of

# RIGE Operating Company

122 West Taylor • Hobbs, New Mexico 88240 Phone: (505)393-9174 • Fax: (505) 397-1471

2008 JAN 33 AM 800

CERTIFIED MAIL
RETURN RECIEPT NO. 7005 1820 0001 6804 7609

January 31, 2006

Mr. Wayne Price New Mexico Energy, Minerals, & Natural Resources Oil Conservation Division, Environmental Bureau 1220 S. St. Francis Drive Santa Fe, New Mexico 87504

RE: EME P-6 RELEASE

PUBLIC NOTIFICATIONS NMOCD CASE #AP-45

Mr. Price:

In accordance with Rule 19 (Section 19.15.1.19 NMAC, Subsection G) Public Notice requirements, please accept the enclosed copies of proof that the appropriate individuals and entities were notified of the Stage 1 & 2 Abatement Plan submitted by Gilbert J. Van Deventer of R.T. Hicks Consultants for the P-6 Release Site.

Notices were sent via certified mail to landowners within the prescribed radius and return receipts were received for all landowners, indicating that the mailing was received. Mailings were also sent to the Lea County Commission and the list of Interested Parties found on the New Mexico Oil Conservation Division (OCD) website. One mail delivery could not be confirmed so the document was sent via electronic mail (e-mail) to the address provided on the list. Thirty-eight total notifications were sent and one was not delivered. The notification to Mike Schultz of the International Technology Corp. (from the OCD Interested Parties list) was return as "attempted—not known." Previous delivery attempts to this address have been refused.

As directed by OCD, the Stage 1 & 2 Abatement Plan notifications were published in the *Albuquerque Journal* and the *Hobbs News-Sun* newspapers. Affidavits for these publications are enclosed.

ROC requests that OCD consider public notice complete for this site. Should you have any further questions regarding this request, do not hesitate to contact me. Thank you for your consideration.

ROC is the service provider (operator) for the EME SWD System and has no ownership of any portion of the pipeline, well, or facility. The System is owned by a consortium of oil producers, System Partners, who provide all operating capital on a percentage ownership/usage basis.

RICE OPERATING COMPANY

Knisin Sains Tope

Kristin Farris Pope Project Scientist

enclosures:

summary table of notifications,

newspaper affidavits, return receipt copies, e-mail copies

cc: CDH, GVD, file, Daniel Sanchez (NMOCD),

Mr. Chris Williams NMOCD, District I Office 1625 N. French Drive Hobbs, NM 88240

# AVIT OF PUBLICATION

State of New Mexico, County of Lea.

1	KATH1	BEARDEN
٠,		

### Publisher

of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, do solemnly swear that the clipping attached hereto was published once a week in the regular and entire issue of said paper, and not a supplement thereof for a period.

of	
01	_weeks.
Beginning with the issue	dated
December 13	2005
and ending with the issue	dated
December 13	2005

Publisher Sworn and subscribed to before

\_day of 13th me this\_

December

Notary Public.

My Commission expires February 07, 2009

(Seal)



OFFICIAL SEAL DORA MONTZ NOTARY PUBLIC STATE OF NEW MEXICO

2005

My Commission Expires:

This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937, and payment of fees for said publication has been made.

### LEGAL NOTICE December 13, 2005

### NOTICE OF PUBLICATION

### State of New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division

Notice is hereby given that pursuant to New Mexico Oil Conservation Division Regulations the following Stage 1 and 2 Abatement Plans Proposal has been submitted to the Director of the Oil Conservation Division, 1220 S. St. Francis Dr.; Santa Fe, New Mexico 87505, Telephone (505) 476-3440:

Rice Operating Company, Carolyn Doran Haynes, Engineering Manager, Telephone (505) 393-9174, 122 West Taylor, Hobbs, New Mexico 88240, has submitted a Stage 1 and 2 Abatement Plan Proposal (AP-45) for the EME P-6 Release Site located in Section 6, Township 20 south, Range 37 east, Lea County, New Mexico, approximately 4 miles west-southwest of Monument, New Mexico. Rice Operating Company operates a saltwater disposal pipeline at the site. Soil impacts at the site include chlorides and hydrocarbons. Groundwater samples exhibit elevated chloride concentrations. The Stage 1 and 2 Abatement Plan Proposal presents the following site soil and groundwater investigation activities: (1) Define regional ground water flow direction. potential sources of chloride in ground water and ambient ground water chemistry. (2) further delineation of the vertical and lateral extent of soil impact, and (3) evaluate flux in the vadose zone and threat to ground water impact.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Consrevation Division at the address given above. The Stage 1 and 2 Abatement Plan Proposal may be viewed at the above address or at the Oil Conservation Division District Office, 1625 N. French Drive, Hobbs, New Mexico 88240, Telephone (505) 393-6161 beween 8:00 a.m. and 4:00 p.m., Monday through Friday, Prior to rulling on any proposed Abatement Plan, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which written comments may be submitted to him.

67534979 01104367000 RICE OPERATING COMPANY 122 WEST TAYLOR HOBBS, NM 88240

## EME P-6 Release

Unit 'P', Sec. 6, T20S, R37E

### Public Notice Mailings (12/7/2005) Stage 1 and 2 Abatement Plan

		De	livery Stati	us	
	Landowner or Interested Party	Delivered US Mail	Delivered E-mail	Not Delivered	Comments
1	Jimmie T. Cooper Star Route A, Box 55 Monument, NM 88265	X			Return Receipt Received
2	Chevron USA, Inc. 15 Smith Road Midland, TX 79705	X			Return Receipt Received
3	James Dellis Barber Estate First National Bank P.O. Box 1347 Colorado City, TX 79512	X			Return Receipt Received
4	Charleie F. Byrd P.O. Box 32 Monument, NM 88265	X			Return Receipt Received
5	Jim Amos Carlsbad Field Office 620 East Greene Street Carlsbad, NM 88220	X			Return Receipt Received
6	Gilbert Borrego New Mexico State Land Office P.O. Box 1148 Santa Fe, NM 87504 - 1148	X			Return Receipt Received
7	James R. Byrd P.O. Box 32 Monument, NM 88265	X			Return Receipt Received
8	Laughlin, M.E. Est. Reeves Elise Laughlin P.O. Box 870849 Mesquite, TX 75187-0849	Х			Return Receipt Received
9	Lea partners Kirkwood & Darby P.O. Box 870849 Mesquite, TX 75187-0849	X			Return Receipt Received
10	Attorney General's Office P.O. Box 1508 Santa Fe, NM 87502 - 0115	X			Return Receipt Received
11	Bureau of Land Management State Director P.O. Box 27115 Santa Fe, NM 87502 - 0115	Х			Return Receipt Received
12	Chief Hazardous Waste Bureau Runnels Building Santa Fe, NM 87504	X			Return Receipt Received

	· · · · · · · · · · · · · · · · · · ·	· <del>/ /</del>		
13	Gerald R. Zimmerman Colorado River Board of Calif. 770 Fairmont Ave, Ste. 100 Glendale, CA 91203 - 1035	X	·	Return Receipt Received
14	Dr. Harry Bishara P.O. Box 748 Cuba, NM 87013	X		Return Receipt Received
15	Mike Schulz International Technology Corp. 5301 Central Avenue, NE Suite 700 Albuquerque, NM 87108		X	Attempted; Not Known
16	Ken Marsh P.O. Box 388 Hobbs, NM 88241	X		Return Receipt Received
17	Ned Kendrick Attorney at Law 325 Paseo de Peralta Santa Fe, NM 87501	X		Return Receipt Received
18	Lynn Brandvold NM Bureau of Mines & Mineral Resources NM Institute of Mining & Tech Socorro, NM 87801	X		Return Receipt Received
19	Randy Hicks 901 Rio Grande Blvd NW Suite F - 142 Albuquerque, NM 87104	X		Return Receipt Received
20	Bruce S. Garber Attorney at Law P.O. Box 0850 Santa Fe, NM 87504 - 0850	X		Return Receipt Received
21	Chief Groundwater Bureau Runnels Building Santa Fe, NM 87504	X		Return Receipt Received
22	Jack A. Barnett Colorado River Basin Ctrl. Forum 106 West 500 South, Suite 101 Bountiful, UT 84010	X		Return Receipt Received
23	Department of Game & Fish Director Villagra Building Santa Fe, NM 87503	X		Return Receipt Received
24	Public Service Company of NM Environmental Counsel ATTN: Colin Adams 414 Silver, Southwest Albuquerque, NM 87158	X		Return Receipt Received
25	Jay Lazarus P.O. Box 5727 Santa Fe, NM 87502	X		Return Receipt Received
26	Lee Wilson & Associates P.O. Box 931 Santa Fe, NM 87501	X		Return Receipt Received

	TOTALS	36	1	1	
38	Lea County Administration Office Attn: Lue Ethridge 100 N. Main Street, Suite 4 Lovington, NM 88260	X			Return Receipt Recei
37	William Turner NM Trustee For Natural Resources C/O American Ground Water Consultants 610 Gold St. SW, Suite 111 Albuquerque, NM 87102	X			Return Receipt Recei
36	Regional Forester USFS Regional Office 517 Gold Avenue SW Albuquerque, NM 87102		X		Undeliverable mail, not to forward; e-mailed of 1/13/2006
35	State Parks & Recreation Director 1220 S St. Francis Santa Fe, NM 87505	X			Return Receipt Recei
34	Ron Dutton Southwestern Public Service P.O. Box 1261 Amarillo, TX 79170	X			Return Receipt Recei
33	Water Resources Division State Engineer Bataan Building Santa Fe, NM 87503	X			Return Receipt Recei
32	US Fish & Wildlife Service Field Supervisor 2105 Osuna Road, Northeast Albuquerque, NM 87113 - 1001	X			Return Receipt Recei
31	State Historic Preservation Officer Attn: Elmo Baca 228 East Palace Avenue Villa Rivera Room 101 Santa Fe, NM 87503	X			Return Receipt Recei
30	Chris Shuey Southwest Research & Information Center P.O. Box 4524 Albuquerque, NM 87106	Χ			Return Receipt Recei
29	Soil & Water Conservation Bureau NM Dept of Agriculture/Ag Programs & Resources Box 30005/APR Las Cruces, NM 88003 - 8005	X			Return Receipt Recei
28	NM Oil & Gas Association P.O. Box 1864 Santa Fe, NM 87504 - 1864	X			Return Receipt Recei
27	New Mexico Environmental Department Secretary P.O. Box 26110 Santa Fe, NM 87501	Х			Return Receipt Recei

### Kristin Farris Pope

From: "Kristin Farris Pope" < kpriceswd@valornet.com>

<cgarcia@fs.fed.us> To:

Friday, January 13, 2006 9:54 AM P6\_Stage1PubNotice.doc Sent:

Attach: Rule 19 Public Notice (P-6) Subject:

#### Regional Forester:

In accordance with the NMOCD Rule 19 Public Notice requirements, please find the attached public notification document. This document was originally mailed to you on December 7, 2005.

Kristin Farris Pope **Project Scientist RICE Operating Company** Hobbs, NM 88240 (505) 393-9174

### **Kristin Farris Pope**

From:

"Christina M Garcia" <cgarcia@fs.fed.us>
"Kristin Farris Pope" <kpriceswd@valornet.com>
Friday, January 13, 2006 10:31 AM
Rule 19 Public Notice (P-6) To:

Sent:

Subject:

#### Return Receipt

Rule 19 Public Notice (P-6) Your document:

Christina M Garcia/R3/USDAFS was received by:

01/13/2006 10:31:49 at:

#### **Kristin Farris Pope**

From:

"Kristin Farris Pope" < kpriceswd@valornet.com>

To:

<a href="mailto:</a></a> <a href="mailto:</a> <a hr

Sent:

Friday, January 13, 2006 9:55 AM P6\_Stage1PubNotice.doc

Attach:

Subject:

Rule 19 Public Notice (P-6)

Jay Lazarus

In accordance with the NMOCD Rule 19 Public Notice requirements, please find the attached public notification document. This document was originally mailed to you on December 7, 2005.

Kristin Farris Pope **Project Scientist RICE Operating Company** Hobbs, NM 88240 (505) 393-9174

## STATE OF NEW MEXICO County of Bernalillo SS

Bill Tafoya, being duly sworn, declares and says that he is Classified Advertising Manager of The Albuquerque Journal, and that this newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Session Laws of 1937, and that payment therefore has been made of assessed as court cost; that the notice, copy of which is hereto attached, was published in said paper in the regular daily edition, for the first publication being on and the subsequent consecutive publications on , 20\_\_\_\_. Sworn and subscribed to before me, a Notary Public, in and for the County of Bernalillo and State of New Mexico this of 20 ( ) Statement to come at end of month. ACCOUNT NUMBER CLA-22-A (R-1/93)

State of New Mexico Energy, Minerals and Natural Resources Departme Oil Conservation Division

Notice is hereby given that purant to New Mexico Oil Consertion Division Regulations, the I lowing Stage 1 and 2 Abatemy Plan Proposal has been submitt to the Director of the Oil Consvation Division, 1220 S. St. Fran Dr., Santa Fe, New Mexico 8751 Telephone (505) 476-3440:

Rice Operating Company, Ca lyn Doran Haynes. Engineeri Manager, Telephone (50 393-9174, 122 West Tayli Hobbs, New Mexico 88240, h submitted a Stage 1 and Abatement Plan Proposal (A 45) for the EME P-6 Relea Site, located in Section 6. Towship 20 south, Range 37 ea Lea County, New Mexico, a proximately 4 miles wes southwest of Monument, Ni Mexico. Rice Operating Compry operates a saltwater dispopipheline at the site. Soil impact at the site include chlorides a hydrocarbons. Groundwat samples exhibit elevated chlori concentrations. The Stage 1 a 2 Abatement Plan Proposal pipenis the following site soil a groundwater investigation actives: (1) Define regional grout water flow direction, potent sources of chloride in groun water and ambient ground wat chemistry, (2) further delineatio of the vertical and lateral exte of soil impact, and (3) evalua flux in the vadose zone at fireat to groundwater impact.

Any interested person may obta further information from the C Conservation Division and may submit written comments to 'the Director of the Oil Conservation Division at the address give above. The Stage 1. and 2 Abatiment Plan Proposal may be viewed at the above address or the Oil Conservation Division Director Office. 1625 N. French Drividobs. New Mexico 88240, Teliphone (505) 393-6161 betwee 8:00 a.m., and 4:00 p.m., Monda through Friday. Prior to ruling o any proposed Abatement Plan, the Director of the Oil Conservation Division shall allow at least thirt (30) days after the date of publication of this notice during whice written comments may be submit ted to him.

IS SECTION ON DELIVER	iiipiece.	Jim Amos  620 East Greene Street  Carlsbad, NM 88220  Carlsbad, NM	7005 0390 0000 9980 2909	Complete items 1.2 and 3. Also complete  Complete items 1.2 and 3. Also complete  Complete items 1.2 and 3. Also complete  Complete items 1.2 and 3. Also complete  A Signature  R Print you'name and address on the reverse  So that we can return the card to you.  Attach this card to the back of the malipiece, or on the front if space permits.  C Date of Deliv 1.2 Article Addressed to:  C Date of Deliv 1.2 Article Addressed to:  C Date of Deliv 1.2 Article Addressed to:  C Date of Deliv 1.2 Article Addressed to:  C Date of Deliv 1.2 Article Addressed to:  C Date of Deliv 1.2 Article Addressed to:  C Date of Deliv 1.2 Article Address below:  C Do No Deliv 2. Article Address below:  C Do N	y Bishara  748  4 \$7013  13 Service Type  14. Restricted Deliver? (Extra Fee)
Intererriis secrion on belivery grature  El Agent  Addressee	D. Necelyed by Lemmed Name)    C. Date of Delivery   C. Date of Delivery   C. Date of Delivery   C. Date of Delivery   C. Date of Delivery address different from item 17 · □ No.   11. Article Addressed to   11. Article Addressed to   11. Article Addressed to   11. Article Addressed to   12. C. Date of Delivery address below:   □ No.	Service Type 3  Dr Certified Mail	4 7483 3293 102595:02:M:1540	gratine  M. W. W. M. M. M. M. M. M. M. M. Agent.  ANN E. M. M. M. M. M. M. M. M. M. M. M. M. M.	3. Service Type  Cuba, NM 87013  Cuba, NM 87013  Cuba, NM 87013  Cuba, NM 87013  Cuba, NM 87013  Cuba, NM 87013  Cuba, NM 87013  Cuba, NM 87013  Cuba, NM 87013  Cuba, NM 87013
Continued   Cont	eo j	ms & Resources 3	7,00,5, 1,8 근 D Domestic Return I	Complete Items 17.2, and 3. Also complete   Complete Items 17.2, and 3. Also complete   Complete Items 17.2, and 3. Also complete   Phint Yourname and address on the reverse   So that we can return the card to you.   Attach this card to the back of the mailpiece,   Or on the front if space permits.	Charlcie F. Byrd P.O. Box 32 Monument, NM 88265 E.ME P.Lo

ENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY	SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
Complete items, 1; 2; and 3. Also complete items, 1; 2; and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card-to-you. Attach this card to the back of the mailpiece, or on the front if space permits.	Signature  X  X  B. Received by (Prince Mamb)  C. Date of Delivery  C. Liste of Delivery  D. Is delivery address different from item 112 Diss	Complete, items 1, 2, and 3; Also, complete litem 4 if Restricted Delivery, is desired.  Print your name and address on the reverse so that we can return the card to you.  Attach this card to the back of the mailpiece or on the front if space permits.	A. Signature S.  X ( )
/illiam Turner NM Trustee for Natural Resources	If YES, enter delivery address below:	NM Oil & Gas Association PO BOX 1864	If YES, enter, delivery, address Selow. $\Box$ No $\Box$ $\Box$ $\Box$ $\Box$ $\Box$ $\Box$ $\Box$ $\Box$ $\Box$ $\Box$
70 American Ground Water Consultants 10 Gold St. SW, Suite 111 Ibuquerque, NM 87102	3. Service Type  Broatined Mail   Express Mail     Pegistered   Gretum Receipt for Merchandise     Insured Mail   O.O.D.	Santa Fe, NM 87504-1864	3. Service Type \(\tilde{USPS}\) \(\tilde{SPS}\) \(SPS
Article Number $PU_{\mathcal{O}}$	A. Restricted Deliver <i>穴 (Extra Fee)</i> 「「Yes	2 Article Number:	4. Restricted Delivery? (Extra Fee)
2004   Domes	ה בייניים בייניים	PS Form 3811, February 2004 11 Dome	n
ENDER COMPLETE HIS SECTION	COMP. = TE THIS SECTION ON PETWERY		
Complete Items 1, 2, and 3. Also complete item 4. If Restricted Delivery is desired.  Print your name and address on the reverse so that we can return the card to you.	1. Printed Name (C. Da	SENDER: COMPLETE HIS SECTION  ■ Complete Items 17.2, and 3. Also complete tem 4 if Restricted Delivery is desired. ■ Print yourname and address on the reverse so that we can return the card to you.	A Signature  X
Article Addressed to:  Article Addressed to:	Mm   C   T   Coo f c   T   S   S   S   S   S   S   S   S   S	Attach this card to the back of the mallplece, or on the front if space permits.  The Atticle Addressed to:	om ten
Jimmie T. Cooper Star Route A, Box 55	į.	James Dellis Barber Estate	
Monument, NM 88265	3. Service, type  (3/Certified Mail:   Express	P.O. Box 1347 Colorado City, TX 79512	Service Type     S
EMEPUE	4》Restricted Delivery? (Extra Fee)	EME P-V	김사우리
7005	0340 0000 9900 4750	2. Article Number	<u> </u>
S Form 3811 February 2004 [1111] Tomestic Return Receipt	turn Receipt	PS Form 38111 February 2004 111 Formestic Return Receipt	turn Receipt :
		Southern immunosymmetric manner of the contract of the contrac	

COMPLETE THIS SECTION ON DELIVERY	<ol> <li>おかり、LOSE(11号の)</li> </ol>	DEC 0:9 2005	3. Service Thee A Explays Mail  Certified Mail 67 Explays Mail  Registered B Actur Receipt for Merchandi  C.O.D.  A Bestricted Deliver Of Figure 100	0004 7483 3309		COMPLETE THIS SECTION ON DELIVERY		D. Is delivery address different from item.1? □ Yes.  If YES, enter delivery address below□ No	3. Service Type  E. Centilied Mall   Express Mall:  Megistered   Whetum Receipt for Merchan   Insured Mall   C.O.D.	/ery?	0 0004 7483 3385	Domestic Return Receipt . 102595-02-M	
SENDER: COMPLETE THIS SECTION	■ Complete Items 1; 2, and 3. Also complete Item 4; If Restricted Delivery is desired. ■ Print your name and address on the reverse so that we can return the card to you. ■ Attach this card to the back of the malipiece or on the front if space permits.  1. Article Addressed to:	New Mexico Environmental Department	Secretary PO BOX 26110 Santa Fe, NM 87504	と Article Number (Transfer from service label) (17回5) 14日	PS Form 381.1, February 2004	SENDER: COMPLETE THIS SECTION	Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.  Print your name and address on the reverse so that we can return the card to you.  Attach this card to the back of the mailpiece, or on the front if space permits.	1. Article Addressed to: Colorado River Basin Ctrl. Forum	Jack A. Dannen 106 West 500 South; Suite 101 Bountiful, UT 84010	EME P-6	2. Article Number: (Transfer from Service Jabel) 7日日5 18日日	PS Form 3811, February 2004	
COMPLETE THIS SECTION ON DELIVERY	A. Signature  X. C. C. C. C. C. C. C. C. C. C. C. C. C.	enter delivery address below.	3. Service Type  Government Community  Government Community  Government Community  Government Community  Government Community  A. Bastrichad Deliveryof Fytra Epol	H=1801128=13	eturn Receipt	COMPLETETHIS SECTION ON DELIVERY	A. Signature  X. C. L. C. Date of Delivery  B. Received by ( Printed Name)  C. Date of Delivery  ( 2 7 - 0 5	If YES, enter delivery address below: □ No	3. Service Type  G-fartified Mall D Express Mall D Registered D-fletum Receipt for Merchandise D Insured Mall D 0.0.0.	4. Restricted Delivery? (Extra Fee)	1820 0004 7483 3118	Return Receipt	
ENDER: COMPLETE THIS SECTION	Complete items 1,2, and 3. Also complete: Item 4 if Restricted Delivery is desired: I Print your name and address on the reverse. so that we can return the card to you: I Attach this card to the back of the mailpiece; or on the front if space permits. Article Addressed to:	ChevronUSA	Midland, TX 79705	Article Number   1.	S Form 3811). Febrúáry 2004 👫 👫 Doméstic Return Receipt.	SENDER COMPLETE THIS SECTION	<ul> <li>Complete items 1; 2, and 3. Also complete item 4 if Restricted Delivery is desired.</li> <li>Print your name and address on the reverse so that we can return the card to you.</li> <li>Attach this card to the back of the mailpiece, or on the front if space permits.</li> </ul>	1. Article Addressed to:  Southwest Research & Information Center	PO BOX 4524 Albuquerque, NM 87106	EMEDOO	24,114 94,14 124,141	PS Form 3811, February, 2004	<u> [</u> ]

And Court (Printed Nath Colored by (Printed Nath Property address Express different from Property address Express (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	And the state of t	Service  Service  Northeast  Northeast  PDB 5 1820 1004  Service	
The complete with the first of the mainblest of the first of the mainblest of the mainblest of the mainblest of the mainblest of the mainblest of the mainblest of the mainblest of the mainblest of the mainblest of the mainblest of the mainblest of the mainblest of the mainblest of the permits of the first of the permits of the first of the permits of the first of the permits of the mainblest of the first of the permits of the first of the permits of the first of the permits of the first of the permits of the first of the permits of the first of the permits of the first o	2. Anticle Number Service label) 2. Anticle Number Service label) 1.540 PS Form 3811, February 2004 1.540 SAINAR COMPLETE HISSEOTI Complete items 1.2 and 3. Also Rem 4 it Pestricted address 1.6 Rem 5 it Pestricted address 1.6 Rem 6 it Pestricted address 1.6 Rem 6 it Pestricted address 1.6 Rem 6 it Pestricted address 1.6 Rem 6 it Pestricted address 1.6 Rem 6 it Pestricted address 1.6 Rem 7 it Pestricted 1.6 Rem	Coron the tree feet of the state of the stat	102585-02-M-1540 ps Form 38111
Could Hart His Sacron On Dativer The Agent See Sommanie As of Phinted Name From Hem 17 12 No. 18 18 18 18 18 18 18 18 18 18 18 18 18	Demosic Petum Receipt  10 10 10 10 10 10 10 10 10 10 10 10 10 1	iste X Charle Community of Printed Name of Second Dr. Printed Name of Second Dr. Printed Name of Second Dr. Printed Name of Second Dr. Second D	ire F-142  Dissured Mail  Dissured Mail  Dissured Deliver  A Restricted Deliver  Pomestic Return Receipt
Signal Also complete		S Form 3811, February 200 S Form 3811, February 200 S Form 3811, February 200 S Form 3811, February 200 S Form 3811, Z and 3: Also complete S Form 31, Z and 3: Also complete S February 12, and 3: Also complete S February 12, and 3: Also complete S February 200 S February 200 S Form 3811, February 200 S	Randy Hicks 87104 901 Rio Grande Blvd NW Suite F-142 Albuquerque, NM 87104 Albuquerque, NM 87104 Anticle Number from service label) Anticle Number from service label) Service Number from service label) Service Number from service label) Service Number from service label) Service Number from service label) Service Number from service label)

lete  A. Signatible  A. Signatible  X. M. M. M. M. M. M. M. M. M. M. M. M. M.	3. Service Type  Ed-Certified Mail  D Registered  G-Return Receipt for Merchand  Insured Mail  C.O.D.  4. Restricted Delivery? (Extra Fee)  DDDD 1990 1990 1990	A Signature  A Signature  X (MA)  B, Receiver by  C. Is delivery and	3. Service The Cartification and Cartification a
SHAPPHIN COMMERTETINS SECTION   Complete Tems 1, 2, and 3* Also complete   Complete Tems 1, 2, and 3* Also complete   Complete Tems 1, 2, and 3* Also complete   Complete Tems 1, 2, and 3* Also complete   Complete Tems 2, and 3* Also complete   Complete Tems 3* Also complete   Complete Temp 3* Also complete   Complete Temp 3* Also complete   Complete Temp 3* Also complete   Complete Temp 3* Also complete   Complete Temp 3* Also complete   Complete Temp 3* Also complete   Complete Temp 3* Also complete   Complete Temp 3* Also complete   Complete Temp 3* Also complete   Complete Temp 3* Also complete   Complete Temp 3* Also complete   Complete Temp 3* Also complete   Complete Temp 3* Also complete   Complete Temp 3* Also complete   Complete Temp 3* Also complete Temp 3* Also complete Temp 3* Also complete Temp 3* Also complete Temp 3* Also complete Temp 3* Also complete Temp 3* Also complete Temp 3* Also complete Temp 3* Also complete Temp 3* Also complete Temp 3* Also complete Temp 3* Also complete Temp 3* Also complete Temp 3* Also complete Temp 3* Also complete Temp 3* A	Monument, NM 88265  EMEP-C  2. Article Number  Oransfer, from service label)  PS Form 38111, February 2004	Agent  Complete Items 1, 2, and 3. Also complete Items 1, 2, and 3. Also complete Items 1, 2, and 3. Also complete Item 4 if Restricted Delivery is desired.  Print your name and address on the reverse so that we can return the card to you.  Attach this card to the back of the mailpiece or on the front if space permits.  No  1. Article Addressed to.	Bureau of Land Management State Director PO BOX 27115 Santa Fe, NM 87502-0115  Article Number  Article Number  Article Number  PS Form 3811, February 2004
A Signature  B. Received by (Printed Name)  D. Is delivery address gillerent from Item. 17.  If YES enter delivery address below: (1)  3. Servjæf fype	Language Mail Despress Mail Despress Mail Despress Mail Despress Mail Co.D.  4. Restricted Delivery? (Extra Fee)  LBED DDD4 74B3 337B  CReturn Receipt  COMPLETE WIRSSECTION ON THE	V ( Printed Name)  C. Date  C. Date  deless different from item 17:	3 Service Type  Type   Capress Mail   Express Mail   Capress Mail
Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.  Print your name and address on the reverse so that we can return the card to you.  Attach this card to the back of the mailpiece or on the front, if space permits.  Article Addressed to.  Department of Game & Fish  Director  Villagra Building	Santa Fe, NM 87503  EMF P. P. ( Hitle Number Strafer from service label) 7005  13811, February 2004                           ENDER: COMPLETE THIS SECTION	Complete items 1, 2, and 3. Also complete item 4 if Pestricted Delivery is desired.  Print your name and address on the reverse so that we can return the card to you.  Attach this card to the back of the mallpiece or on the front if space permits.  Article Addressed to:  Laughlin, M. E. Est  Reeves Elise Laughlin.	859112

The second secon

COMPLETE THIS SECTION ON DELIVERY	A Signature.  X 77   Address  IB Received by ( Printed Name).  D. is delivery address girlefertition. Item 17   Yes.  IffYES: enter delivery address below.	3. Service Type 2.1 1.2 2.2 C. L. Certified Mail	10 0004 7483 3286 sturn Receipt 102595-02-M-1	COMPLETE THIS SECTION ON DELIVERY	A Signature  WWWWWWWW   Adent  B. Received by ( Printed Name)   C. Date of Deliy  D' is delivery address different from item; 17   P. S.  If YES, enter delivery address below:   I. No	3. Service Type   C. C. C. C. C. C. C. C. C. C. C. C. C.	1820 0004 7483 31.94  Peturi Receipt
SENDER: COMPLETE THIS SECTION	Complete Items 17, 2, and 3. Also complete Item 4 fit Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back, of the mailpiece in or on the front if space permits.  1. Article Addressed to.	PO BOX 1508 Santa Fe, NM 87504  EMEDIA De CA	2. Article Number  **Intransfer from service label  **IPS Form: 38   1     February 2004	SENDER: COMPLETE THIS SECTION	Complete ifems 1.2 and 3. Also complete tem 4 if Restricted Delivery is desired.  Item 4 if Restricted Delivery is desired.  So that we can return the card to your Attach this card to the back of the malpiece; or on the front if space permits.	Colorado River Board of Calif. Gerald R. Zimmerman 770 Fairmont Ave, Ste. 100 Glendale, CA 91203-1035  Fmt P-C	2. Article Number 7005 1820 00 PS Form 3811/ February 2004
COMPLETE THIS SECTION ON DELIVERY	Signature     X	3 Service Type  Creatified Mall	7483 3354 102565-02-M:1540	COMPLETE THIS SECTION ON DELIVERY  A. Signature	B. Received by ( Printed Name)  C. Date of Delivery  D. Is delivery address different from item 17	3. Service Type  La Certified Mail  Description  Description  Description  Description  Restricted Delivery? (Extra Fee)	] 미미나 구박용크『크리미『『 102595-02-M:1540:』
ENDER: COMPLETE THIS SECTION		ompany of Nompany No	Article Number:	ENDER COMPLETE HAS SECTION		Ken Marsh CRI PO BOX 388 Hobbs, NM 88241  EME P. 6	Article Number

COMPLETE THIS SECTION ON DELIVERY  A. Signature  X. C. Manuel  B. Received by (Printed Name)  C. Date of Delivery address different from item 1?   I 2 - I 4 - 0 = 1	3. Service Type	This section on permits the first section of the first section of the first section of the first section is set the first section of th	3) Service Types  3) Service Types  C. Certified Mail D. Express Mail C. Co.D.  4) Restricted Delivery? (Extra Fee)  105 1,820 0004 7483 3351
SENDER: COMPLETE THIS SECTION  Complete items 1.2, and 3. Also complete item 4 if Restricted Delivery is desired tem 4 if Restricted Delivery is desired.  Print your name and address on the reverse so that we can return the card to you? ————————————————————————————————————	100 N. Main Street, Suite 4	Socor Socor The The	Bruce S. Garber  Attorney at Law PO BOX 0850 Santa Fe, NM 87504-0850  EME P O  Atticle Number  2. Atticle Number  (Transfer from service label) PS. Form 38411; February 2004 1111 Domestic Rec
Counties   Counties	Service-Type  D. Certified Mall D. Express Mail D. Registered D. Regum, Recept. A. Restricted Delivery (Extra Fee)	CONFIDENCE AND SECTION ON DETIVERY  A. Signature Confidence Confid	Seyi/Ge-Type   Control of the Cont
ANDIER COMPLETE TRISSECTION Complete items 1,2, and 3. Also complete Item, 4 if Restricted Delivery is desired.* Print your name and address,on the reverse, so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. Article Addressed to:	02 1	S Form 3011; February 2004 Domestic Re- ENDER; COMPLETE THIS SECTION Complete items 1, 2, and 3. Also complete Item 4 if Restricted Delivery is desired. Frint your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits.  Article Addressed to	New Mexico State Land Office Gilbert Borrego P.O. Box 1148 Santa Fe, NM 87504-1148 EME P-C Article Number Article Number Grinsu Article Number Grinsu Article Number Signm 3811, February 2004 Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY  A Signature PUS 3-147 OF SAgent  X G C C C C C C C C C C C C C C C C C C		3. Serviga-Type  C. Certified Mail . D. Express Mail: C. Registered . C. Hetum Receipt for Merchandis C. Registered Mail . C. C.O.D.  4. Restricted Delivery? (Extra Fee)	[15] 고요군[   100 대 기 대 대 대 대 대 대 대 대 대 대 대 대 대 대 대 대 대	COMPLETE THIS SECTION ON DELIVERY	leilow.	DEC 1	Chinestic Mail
SENDER: COMPLETE THIS SECTION  Complete items 11 2, and 3. Also complete tems 41 Restricted Delivery is desired.  Elim 4. If Restricted Delivery is desired.  Sprint you'r name and address on the reverse so that we can return the card to you.  So that we can return the card to you.  Attach this grand to the back of the mail piece.  Or on the front iff space permits.	1. Article Addressed to.  J  NM. Bureau of Mines & Mineral Resources Lynn Brandvold	NM Institute of Mining & Tech Socorro, NM 87801  Emt P.C.	2. Article Number 7 "(Organster from service (aber) 7.0 ロドコカラロ PS Form 3811: February 2004	SENDER: COMPLETE THIS SECTION	■ Complete items 1, 2, and 3. Also complete item; 4 if Restricted Delivery is desired ■ Print your name and address on the reverse so that we can return the card to you ■ Attach this card to the back of the mailplece, or on the front if space permits.	Chief Hazardous Waste Bureau Runnels Building Santa Fe, NM 87504	EMEPO
E MIS SECTION OF	II.1ES, entier delivery are selection.	☐ Certified Mall ☐ Express Mail ☐ Registered ☐ Settum Receipt for Merchandise ☐ Insured Mall ☐ C.O.D. 4. Restricted Delivery? (Extra Fee)	1 0004 7483 331b	COMPLETE THIS SECTION ON DELIVERY		3. Service Type  N. Certiligal Mary Edit Explains Main from Merchandise  Insured Main III C.O.D.	4. Restricted Delivery? (Extra Fee) ロ yes 1 ロロロ
SENDER: COMPLETETHIS SECTION  Complete items 1, 2, and 3, Also complete items 1, 2, and 3, Also complete items 1, 2, and 3, Also complete items 1, 2, and 3, Also complete items 1, 2, and 3, Also complete items 1, 2, and 3, Also complete items 1, 2, and 3, Also complete items 1, 2, and 3, Also complete items 2, and 3, Also complete items 2, and 3, Also complete items 3, Also complete items 3, Also complete items 3, Also complete items 3, Also complete items 3, Also complete items 3, Also complete items 3, Also complete items 3, Also complete items 3, Also complete items 3, Also complete items 3, Also complete items 4, Also complete items 4, Also complete items 4, Also complete items 4, Also complete items 4, Also complete items 4, Also complete items 4, Also complete items 4, Also complete items 4, Also complete items 4, Also complete items 4, Also complete items 4, Also complete items 4, Also complete items 4, Also complete items 4, Also complete items 5, Also complete item	Lee Wilson & Associates PO BOX 931 Santa Fe NM 97501	(a) = (b) = (b) = (c) = (c) = (d) =	7005 1820 0004	ENDER: COMPLETE THIS SECTION		Chief Groundwater Bureau Runnels Building Santa Fe, NM 87504	Article Number  Article Number  (Transfer from service labe)  S Form 38,11, February 2004 [11] Topinestic Receipt

COMPLETE THIS SECTION ON DELIVERY	A Signature  X ( Manner of the convertible of Delivery)	D is delivery address idifferent from tem [1] [4] [5] [7] [7] [7] [7] [7] [7] [7] [7] [7] [7	3. Service Type  D. Express Mail  Registered  Registered  D. Co.D.	4. Restricted Deliver <i>外(Extra Fee))</i>	Domestic Return Receipt
SENDER: COMPLETE THIS SECTION	■ Complete Items 1: 2; and 3. Also complete	or on theirfoht if space permits:  1. Article Addressed to  State Parks & Recreation	Director 1220 S St Francis Santa Fe, NM 87505	2. Article Number $P = P = P$	004

N.	DEC THICKNESS	FIAIIIIG S.NIN
COMPLETE THIS SECTION ON DELIVERY	X  C. Date of Delivery  D. is delivery address below.  In No.	Service Type
SENDER: COMPLETE THIS SECTION	Complete Items 1, 2, and 3 Also complete     Complete Items 1, 2, and 3 Also complete     Complete Items 2, 2, and 3 Also complete     Complete Items 2, 2, and 3 Also complete     Southst we can return the card 10 your.     Attach this card to the back of the malpiece, or on the front It space permits.  It Aricle Addressed to:     Leaparthers	Darby  ap, Ste. 400  TX 76111  Plo

.....

1162**894.42**005. (C) 5886 9980 0000

0340

7005

STA

<u> Majeroeu</u>

17:31

gj" i 10°1 10°1

ICL. 1.1

Fort Worth, TX 76111 3000 E Belkap, Ste. 400

> Kirkwood & Darby Leapartners

Kirkwood & Darhy Leapartners

12/13/05 NENDER DN AUDRENSED FORUARD 0 RETURN TO DELIVERABLE UNABLE TO - 280 - 280 トロス **出出×H**工

\*0968-04416-07-40 BC: 88240504822

or PO Box No.

Total Postage & Fees

Certified Fee

0790 

0866

Restricted Delivery Fee (Endorsement Required) eeR-IqieceR nruteR (beriupeR fremesrobn3)

7005

9885

Cherating Company

THE RESIDENCE OF THE PROPERTY

Hobbs, NM 88240

er er er er er er er er er

D Undeliverable as

Addressed

(.i.) (iii) (.i.)

网络经验证明明 五年主中

International Technology Corp.

UMOVOQ, Left No Address D. Redused Authorities - Not Known Mike Schulz
5301 Central Avenue, NE Suite 70D No Such Street

D No Such Munte D Unotained DNo Recepted Doggester

HELD THE STATE OF THE PROPERTY からない のはないないないのでは

HOBBS, NM

	Schulz Schnology Corp. Corp. Schulz Avenue, NE Suite 700	O.I.I.A	2005
	DED 5 7 \$	eeq veviled betointeeR (beniupeR inemeanonia) seeq & egateog latot	1820
	WW 8872 OE. C. Shismison 2004.	Certifiled Fee Return Receipt Fee (Endorsement Required)	
	ZE	egateo4	+084
,	AS A TV-10	Emedia verileo a con	ia :
1,1	MANL ARECENTAREPROVIDED  WATER THE PROPERTY OF	10 11 11 11 11 10 10 10 10 10 10 10 10 1	OEDD SEDD
WELFORD OVER HENDLISHON RICH	Courbe TE 11/18: Secrior On Definer  A. Signature  X. C. Addressee  B. Received by ( Printed Name)  C. Date of Delivery  D. Is delivery address different from Item 17.	S Servide Type M. Certified Mail M. Registered Mail: M. Receipt for Merchandise Insured Mail: M. C.O.D. 4. Restricted Delivery? (Extra Fee)	1,820 0001, 6404, 0037 102595-02-M-1540
	Sandarr complete thems 1,2, and 3, Also complete thems 1,2, and 3, Also complete thems 1,2, and 3, Also complete them 4 If Restricted Delivery is desired.  Print, yourname, and address on the reverse so that we can return the card to you.  Attach, this card to the back of the mallpiece, or on the front if space permits.  Article Addressed to:  International Technology Corp.	5301 Central Avenue, NE Suite 700 Albuquerque, NM 87108 EMME P.C.	

102595-02-M-1540

P C Dewating Company 122 West-Taylor Hobbs, NM 88240

THE PROPERTY CEN



Albuquerque, NM 87102 USFS Regional Office 517 Gold Avenue SW Reginal Forester

が出いてきないです

CONTRACT.	Wenx	☐ Addressee	C. Date of Delivery	17. 🗆 Yes 👚 🚾		Danie Did Veev	Sey III	
	CTION COMPLETE THIS SECTION ON DEL	so complete" A Signature desired.	to you B. Received by ( Printed Name) the mailpiece.	D. is delivery address different from tem. If YES, enter delivery address below.		3 Service Type  OCertified Mall  Registered Insured Mall	C/Clay	רפיור יוסטט טתער
	SENDER: COMPLETE THIS SECTION	Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.  Print your name and address on the reverse	so that we can return the card to you.  Attach this card to the back of the malipiece or on the front it space nermits.	1: Article Addressed.to:	USFS Regional Office	Keginal Forester 517 Gold Avenue SW AlbuquerqueeNM 87102	ENE D-6	Article Number

COLLS MIN SIDEOUPHA

#### NOTICE OF PUBLICATION

# State of New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division

Notice is hereby given that pursuant to New Mexico Oil Conservation Division Regulations, the following Stage 1 Abatement Plan Proposal has been submitted to the Director of the Oil Conservation Division, 1220 S. St. Francis Dr., Santa Fe, New Mexico 87505, Telephone (505) 476-3440:

Rice Operating Company, Carolyn Doran Haynes, Engineering Manager, Telephone (505) 393-9174, 122 West Taylor, Hobbs, New Mexico 88240, has submitted a Stage 1 Abatement Plan Proposal (AP-46) for the Pipeline Junction EME K-6, located in Section 6, Township 20 south, Range 37 east, Lea County, New Mexico, approximately 4 miles west-southwest of Monument, New Mexico. Rice Operating Company operates a saltwater disposal pipeline at the site. Soil impacts at the site include chlorides and hydrocarbons. Groundwater samples exhibit elevated chloride concentrations. The Stage 1 Abatement Plan Proposal presents the following site soil and groundwater investigation activities: (1) Define regional ground water flow direction, potential sources of chloride in ground water and ambient ground water chemistry, (2) further delineation of the vertical and lateral extent of soil impact, and (3) evaluate flux in the vadose zone and threat to groundwater impact.

Any interested person may obtain further information from the Oil Conservation Division and may submit written comments to the Director of the Oil Conservation Division at the address given above. The Stage 1 Abatement Plan Proposal may be viewed at the above address or at the Oil Conservation Division District Office, 1625 N. French Drive, Hobbs, New Mexico 88240, Telephone (505) 393-6161 between 8:00 a.m. and 4:00 p.m., Monday through Friday. Prior to ruling on any proposed Stage 1 Abatement Plan, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which written comments may be submitted to him.

turn Receipt 102595-02-M-1540	PS Form 3811, February 2004
7005 1820 0004 7483 3330 ·	2. Article Number 7日日5 上品
4. Restricted Delivery? (Extra Fee) ☐ Yes	EMEP-6
3. Service Type	Santa Fe, NM 87502
	Jay Lazarus
( USPS	
If YES, enter delivery address below:	Article Addressed to:
B Received by (Printed Natifie)  C. Date & Delivery  (C. Date & Delivery  (C. Date & Delivery  (C. Date & Delivery  (C. Date & Delivery  (C. Date & Delivery  (C. Date & Delivery  (C. Date & Delivery  (C. Date & Delivery	so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits.
A Signature  A Sig	Complete items 7, 2, and 3. Also complete item 4 if Restricted Delivery is desired.  Print your name and address on the reverse.
COMPLETE THIS SECTION ON DELIVERY	SENDER: COMPLETE THIS SECTION

GOMRHEITHURSECTION ON DELIVERY	A. Signature  X. X. L.Q. L.D. LD. LD. Addressee  B. Received by (Printed Name)  C. Date of Delivery  D. Is delivery address different from item 1?  If YES, enter delivery address below:		Mail Receipt for	4. Restricted Delivery? (Extra Fee)	urn, Receipt 102595-02-M-1540
Sandar complete (firsterion	<ul> <li>Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.</li> <li>Print your name and address on the reverse so that we can return the card to you.</li> <li>Attach this card to the back of the mailpiece, or on the front if space permits.</li> <li>Article Addressed to:</li> </ul>	Leapartners LP	PO BOX 870849 Mesquite, TX 75187-0849	2. Article Number 7005 1820	PS Form 3811, February 2004 Domestic Return Receipt