1R - 427-363

REPORTS

DATE:

3-12-13

Rice Environmental Consulting & Safety

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

CERTIFIED MAIL
RETURN RECEIPT NO. 7008 1140 0001 3073 0681

March 12th, 2013

Mr. Edward Hansen

New Mexico Energy, Minerals, & Natural Resources Oil Conservation Division, Environmental Bureau 1220 S. St. Francis Drive Santa Fe. New Mexico 87505 RECEIVED

MAR 13 2013

Oil Conservation Division 1220 S. St. Francis Drive Santa Fe, NM 87505

RE: Excavation Summary and Initial Corrective Action Plan (CAP) Report Rice Operating Company – EME SWD System EME I-35 EOL (1R427-363): UL/P sec. 35 T19S R36E

Mr. Hansen:

RICE Operating Company (ROC) has retained Rice Environmental Consulting and Safety (RECS) to address potential environmental concerns at the above-referenced site in the EME Salt Water Disposal (SWD) system. 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 Parties, who provide all operating capital on a percentage ownership/usage basis.

Background and Previous Work

The site is located approximately 3 miles southwest of Monument, New Mexico at UL/P sec. 35 T19S R36E as shown on the Site Location Map (Figure 1). RECS conducted a groundwater study of NM OSE records and BLM well records which indicated that groundwater would likely be encountered at a depth of approximately 46 +/- feet. However, soil bore installation at the site indicates that groundwater is located at approximately 33 feet.

In 2011, ROC initiated work on the former EME I-35 EOL junction box. The site was delineated using a backhoe to form a 30 ft x 30 ft x 12 ft deep excavation and soil samples were screened at regular intervals for both hydrocarbons and chlorides. From the excavation, the four-wall composite, the bottom composite and the blended backfill were taken to a commercial laboratory for analysis. Laboratory analysis of the composite samples resulted in elevated chloride concentrations and low concentrations of TPH. The excavated soil was blended on site and returned to the excavation to a depth of 5 ft bgs where a 20-mil reinforced poly liner was installed and properly seated into the excavation. The excavation was then backfilled with the remainder of the blended soil to ground surface.

The area was contoured to the surrounding landscape and seeded. NMOCD was notified of potential groundwater impact on February 15th, 2012 and a junction box disclosure report was submitted to NMOCD with all the 2011 junction box closures and disclosures.

Investigation and Characterization Plan (ICP) Report

As part of the Investigation and Characterization Plan submitted to NMOCD on May 22nd, 2012, and approved on May 30th, 2012, thirteen soil bores were installed at the site on June 12th and 13th, 2012 and August 8th and 10th, 2012. While the bores were advanced, samples were taken at regular intervals for chloride and hydrocarbon field testing. Representative samples for each bore were taken to a commercial laboratory for confirmation of field numbers. Chloride concentrations decreased laterally with the edges being defined by SB-7 to the west, SB-13 to the south, SB-5 to the east, and SB-8 to the north. Chloride concentrations in SB-7 decreased from 1,220 mg/kg at 10 ft to 224 mg/kg at 25 ft. Chloride concentrations in SB-13 were low throughout, all less than 144 mg/kg. Chloride concentrations in SB-5, resulted in 336 mg/kg at 5 ft and 352 mg/kg at 10 ft, and SB-8 resulted in 416 mg/kg at 10 ft and 800 mg/kg at 20 ft. SB-10 was drilled near the Climax Chemical fence line and is representative of background soil concentrations.

Corrective Action for the Vadose Zone

On August 28th, 2012, ROC submitted an ICP Report and Corrective Action Plan that was approved by NMOCD on September 13th, 2012. The plan stated that in order to lessen the movement of residual chlorides in the vadose zone to groundwater, RECS recommended that ROC install a 20-mil reinforced poly liner at 4-4.5 ft bgs measuring 105 ft x 60 ft (Figure 2). The liner would cover the existing liner measuring 30 ft x 30 ft at 5 ft bgs and would provide a barrier that would inhibit the downward migration of chlorides to groundwater. The soils placed above the liner would have a laboratory chloride reading no greater than 500 mg/kg and a field PID measurement below 100 ppm. Excavated soil would be evaluated for use as backfill and any soil requiring disposal would be properly disposed of at a NMOCD approved facility. The soils over and surrounding the site would then be prepared with soil amendments as necessary and seeded with a native vegetative mix. Vegetation above the liner would also provide a natural infiltration barrier for the site since plants capture water through their roots thereby reducing the volume of water moving through the vadose zone to groundwater.

Corrective Action for Groundwater

This site is located within the regionally impacted groundwater plume in an area with groundwater chloride concentrations greater than 10,000 mg/L (Figure 3 and 4). Monitor well sampling of the Environmental Protection Agency monitor wells located around Climax Chemical shows an up gradient well with a chloride concentration of 23,000 mg/L and a down gradient well with a chloride concentration of 10,700 mg/L. Based on

this regional data, monitoring well installation at this site was not warranted since the minute amount of chlorides added to the aquifer by the site can only be negligible in relation to the high regional concentrations. Therefore, ROC proposed to remove 1,739 kg of chloride impacted groundwater from the existing groundwater recovery system located at EME K-6. An addendum to the CAP was submitted September 13th, 2012, which stated that groundwater recovery would occur from both the EME K-6 and the EME L-6. NMOCD approved the CAP and Addendum on September 13, 2012.

Corrective Action Report for the Vadose Zone

On January 22nd, 2013, RECS personnel were on site to begin excavating for liner installation. The site was then excavated to 105 ft x 60 ft x 4.5 ft. Based on the soil bore chloride concentrations, the soil with low chloride concentrations was stockpiled on site to use as backfill and the soil with higher chloride concentrations was sent to a NMOCD approved facility for disposal. A total of 588 yards of contaminated soil was disposed of at a NMOCD approved facility. Three samples of the stockpiled soil were field tested for hydrocarbons and returned results of 7.2 ppm, 11.2 ppm and 5.4 ppm. The samples were then taken to a commercial laboratory for analysis of chlorides and returned results of 320 mg/kg, 416 mg/kg and 496 mg/kg.

A total of 288 yards of blow sand was imported to the site to serve as padding for the liner. A sample of the imported blow sand was field tested for hydrocarbons and returned a result of 2.8 ppm. The sample was then taken to a commercial laboratory for analysis of chlorides and returned a result of 32 mg/kg. The liner was padded below with the blow sand, properly seated into the excavation and then padded above. The site was then backfilled with the stockpiled soil. Top soil was imported onto the site to bring the excavation to the surface and contour it to the surrounding location. A sample of the top soil was field tested for hydrocarbons and returned a result of 0.2 ppm. The sample was then taken to a commercial laboratory for analysis of chlorides and returned a result of non-detect.

Silt net fencing was installed around the excavated area. Soil amendments were added to the top soil and the site was seeded with a blend of native vegetation. Documentation of Corrective Actions for the Vadose Zone can be found in Appendix A.

Corrective Action Report for Groundwater

On September 27th, 2012, groundwater removal for the site began at EME K-6. Groundwater recovery did not take place at EME L-6 because the site was down. During groundwater recovery, a total of 430 barrels were removed from the site. Given the chloride concentration in RW-1 was 11,300 mg/L, this equates to 773 kg removed (Appendix B). This leaves a total of 966 kg remaining to be removed for the site in 2013. The site was shut in on October 25th, 2012 for the winter season and will begin pumping in spring 2013.

The vadose zone remediation is completed for the site; as such, ROC requests soil closure or similar closure status. A total of 966 kg of chloride remain for groundwater removal. Once groundwater removal is completed, ROC will submit a written report that will include a request for 'remediation termination' of the regulatory file.

RECS appreciates the opportunity to work with you on this project. Please call Hack Conder at (575) 393-9174 or me if you have any questions or wish to discuss the site.

Sincerely,

Lara Weinheimer

Project Scientist

RECS

(575) 441-0431

Attachments:

Figure 1 – Site Location Map

Figure 2 – NMOCD Approved Liner

Figure 3 – EME Groundwater Contamination

Figure 4 – EME Groundwater Chloride Contamination Concentrations

Appendix A – Vadose Zone Remediation Documentation

Appendix B – EME K-6 RW-1 Groundwater Withdrawal and Lab



RICE Environmental Consulting and Safety (RECS)
P.O. Box 5630 Hobbs, NM 88241
Phone 575.393.4411 Fax 575.393.0293

Site Location Map

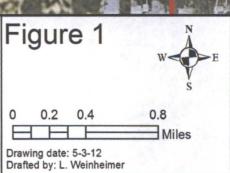




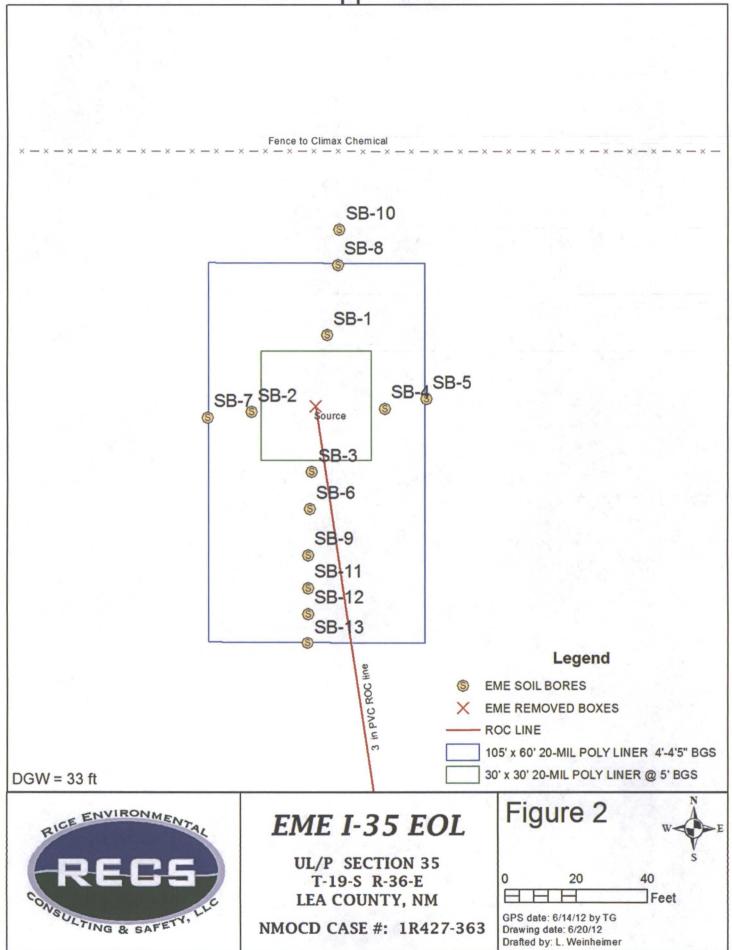
EME I-35 EOL

Legals: UL/P sec. 35 T-19-S R-36-E LEA COUNTY, NM

NMOCD CASE #: 1R427-363

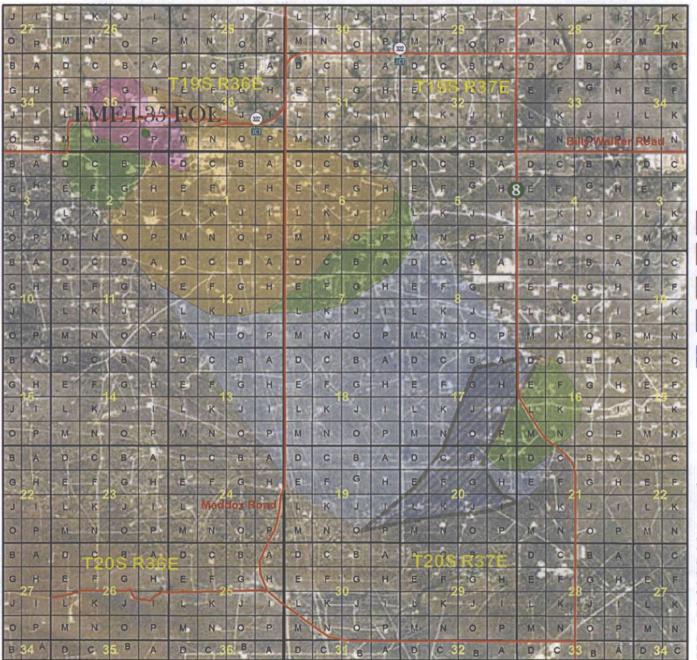


NMOCD Approved Liner



Drafted by: L. Weinheimer

EME Groundwater Contamination





122 W. Taylor Hobbs, NM 88240 Phone (575) 393-9174 Fax (575) 397-1471

CI- concentration > 10,000

10,000 > CI- concentration > 5,000

5,000 > Cl- concentration > 2,000

2,000 > CI- concentration > 500

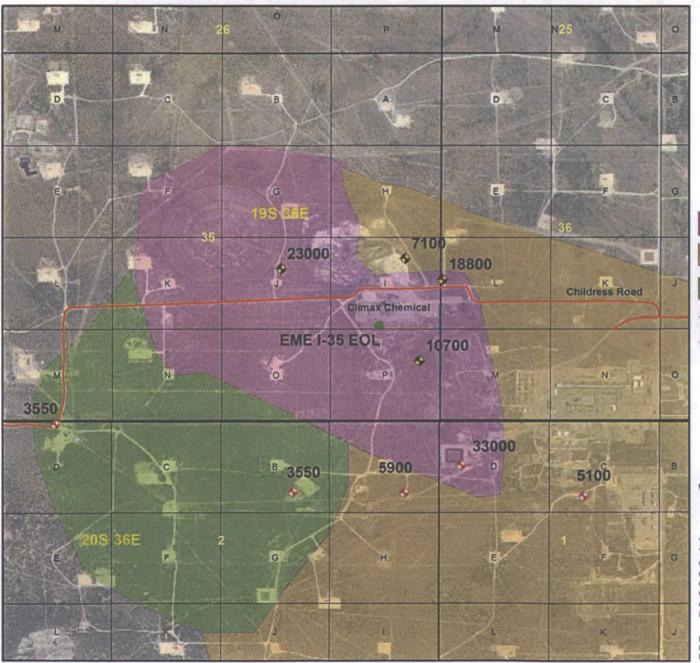
Hypothetical CI- contamination area



This map was prepared for Rice Operating Company. This map represents the known chloride impact concentrations in the groundwater as of 2012. As conditions change and/or new monitor wells are added, the contamination plume will undergo permutations that will be reflected in future maps. Rice Operating Company does not assume any responsibility for the use of this information by others.

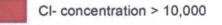
Drawing date: 12-15-09 Revision date: 8-17-12 Drafted by: Lara Weinheimer Figure 3

EME Groundwater Chloride Contamination Concentrations





122 W. Taylor Hobbs, NM 88240 Phone (575) 393-9174 Fax (575) 397-1471





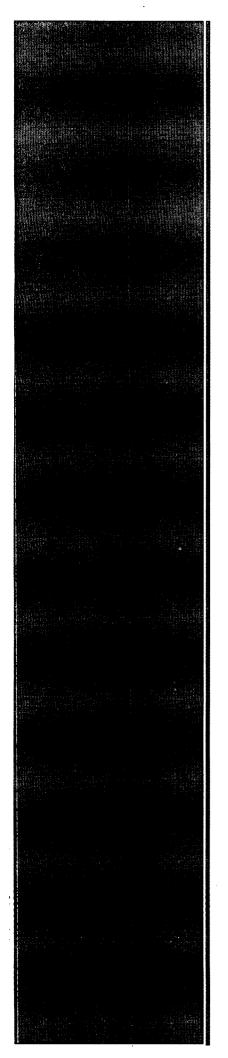






This map was prepared for Rice Operating Company. This map represents the known chloride impact concentrations in the groundwater as of 2012. As conditions change and/or new monitor wells are added, the contamination plume will undergo permutations that will be reflected in future maps. Rice Operating Company does not assume any responsibility for the use of this information by others.

Drawing date: 12-15-09 Revision date: 8-24-12 Drafted by: Lara Weinheimer Figure 4



Appendix A

Vadose Zone Remediation Documentation

RICE Environmental Consulting and Safety (RECS)
P.O. Box 5630 Hobbs, NM 88241

Phone 575.393.4411 Fax 575.393.0293



January 24, 2013

Hack Conder

Rice Operating Company

112 W. Taylor

Hobbs, NM 88240

RE: EME I-35 EOL

Enclosed are the results of analyses for samples received by the laboratory on 01/23/13 16:22.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

Rice Operating Company Hack Conder 112 W. Taylor

Hobbs NM, 88240

Fax To:

(575) 397-1471

Received:

01/23/2013

Reported:

01/24/2013

Project Name: Project Number:

EME I-35 EOL NONE GIVEN

Project Location:

Sampling Date:

01/23/2013

Sampling Type:

Sampling Condition:

** (See Notes)

Sample Received By:

Jodi Henson

NOT GIVEN

Sample ID: STOCK PILE A 8 PT. COMP (H300194-01)

Chlorida	SM4500CI-B
Chioride.	3M43UUCI-B

mg/kg

Analyzed By: DW

Analyte

Chloride

Chloride

Result 320

Reporting Limit 16.0

Analyzed 01/24/2013 Method Blank ND

416

% Recovery 104

True Value QC 400

RPD 0.00 Qualifier

Sample ID: STOCK PILE B 8 PT. COMP (H300194-02)

Chloride, SM4500CI-B

mg/kg

Analyzed By: DW

Analyte

Result 416

Reporting Limit 16.0

01/24/2013

Analyzed

Method Blank ND

BS 416

104

% Recovery

True Value QC 400

RPD

0.00

RPD

0.00

Qualifier

Qualifier

Sample ID: STOCK PILE C 8 PT. COMP (H300194-03)

Chloride, SM4500CI-B

mg/kg

Analyzed By: DW

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC
Chloride	496	16.0	01/24/2013	ND	416	104	400

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder

Celey D. Keene, Lab Director/Quality Manager

Celey D. Keine

Page 2 of 4



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

ARDINAL LABORATORIES

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

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RICE ENVIRONMENTAL CONSULTING & SAFETY

122 West Taylor Hobbs, NM 88240 PHONE: (575) 393-9174 FAX: (575) 397-1471 PID METER CALIBRATION & FIELD REPORT FORM

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

SIGNATURE Stated Tong

DATE: 1-23-2013



January 25, 2013

Hack Conder

Rice Operating Company

112 W. Taylor

Hobbs, NM 88240

RE: EME I-35 EOL

Enclosed are the results of analyses for samples received by the laboratory on 01/24/13 16:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely.

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

Rice Operating Company

Hack Conder 112 W. Taylor Hobbs NM, 88240

Fax To:

(575) 397-1471

Received: Reported: 01/24/2013

01/25/2013

Project Name: Project Number: EME I-35 EOL NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

01/24/2013

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Celey D. Keene

Sample ID: IMPORTED SOIL (H300216-01)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Analyte

Analyzed

Method Blank

BS

% Recovery

True Value QC

RPD

Qualifier

Chloride

Result 32.0 Reporting Limit 16.0

01/25/2013

400

100

400

0.00

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by dient for analyses. All claims, including those for negligence and including, without limitation, business interruptions, loss of use, or loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keene

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene; TX 79603 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

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

NEED SAMPLES BACK, PLEASE 631-1322

RICE ENVIRONMENTAL CONSULTING & SAFETY

122 West Taylor Hobbs, NM 88240 PHONE: (575) 393-9174 FAX: (575) 397-1471 PID METER CALIBRATION & FIELD REPORT FORM

CK.	MODEL: PGM 7300		NO: 590-000508		
MODEL	MODEL: PGM 7300		NO: 590-000504		
NO. X	MODEL: PGM 7320 MODEL: PGM 7300		NO: 592-903318 NO: 590-000183		
		ON: ISOBUTYI	LENE 100PPM / AIR:	BALANCE	
LOT NO : HHAL-24	48-100-1		EXPIRATION DATE	•	
į	METER	READING A	CCURACY: 100 PPM		
ACCURACY : +/- 2	%		•		
:					
		CO	MPANY		
i		RICE OPER	ATING COMPANY		
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I verify that I have calibrated the above instrument in accordance to the manufacture operation manual.

SIGNATURE: Haled James

DATE: 1-24-2013



January 31, 2013

KATIE JONES

Rice Operating Company

112 W. Taylor

Hobbs, NM 88240

RE: EME I-35 EOL

Enclosed are the results of analyses for samples received by the laboratory on 01/29/13 8:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

Rice Operating Company

KATIE JONES 112 W. Taylor Hobbs NM, 88240

Fax To:

(575) 397-1471

Received:

01/29/2013

Sampling Date:

01/28/2013

Reported:

01/31/2013

Sampling Type:

Soil

Project Name:

EME I-35 EOL

Sampling Condition:

** (See Notes)

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: IMPORTED TOP SOIL (H300240-01)

Chloride, S	M4500CI-B	mg,	/kg	Analyze	d By: AP					
	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1	<16.0	16.0	01/31/2013	ND	432	108	400	3.64	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim ansing, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitations, business interruptions, loss of or profits incurred by client, its subdidaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

Chloride by SM4500CI-B does not require samples be received at or below 6°C

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

Cardinal Laboratories

*=Accredited Analyte

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Celey & Kene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

RDINAL LABORATORIES
101 East Marland, Hobbs, NM. 88240 2111 Beechwood, Abilene, TX 79603 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

Company Name: RICE Operating	-					Ī	业	碰	BI	LLITO	矿咖啡	<u>.</u>		£		ANA	LYSI	S"RE	QUE	ST			
Project Manager: Katie Jones	,		-		****		P.O.]						· -					
Address: 112.W. Taylor							Con	npai	ny:;				[က္ခ	ĺ	1 -		ļ			
City:: Hobbs State: NM	Žip): 8 <u>8</u>	240				Attr	1:4		* .				1		6	٠.	٠			ļ. 		
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Project Name:				· 			Stat	e:		Zip:		Chlorides	PH 8015 M	×	TPH	- E							
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T Cardinal cannot accept verbal changes. Please fax written changes to 505-393 2476

RICE ENVIRONMENTAL CONSULTING & SAFETY

122 West Taylor Hobbs, NM 88240 PHONE: (505) 393-9174 FAX: (505) 397-1471 PID METER CALIBRATION & FIELD REPORT FORM

CK.		MODEL: PGM 7300	SERIAL NO: 590-00050
MODEL		MODEL: PGM 7300	SERIAL NO: 590-00050
NO.	X	MODEL: PGM 7320	SERIAL NO: 592-90331
		MODEL: PGM 7300	SERIAL NO: 590-00018

GAS COMPOSITION: ISOBUTYLENE 100PPM / AIR: BALANCE

LOT NO : HAL248100-1	EXPIRATION DATE: N/A	
	METER READING ACCURACY: 100.0 PPM	

ACCURACY: +/- 2%

COMPANY		
Piec On autino	-	

SYSTEM	JUNCTION	UNIT	SECTION	TOWN SHIP	RANGE
4					
EME	I-35 EOL	P	35	198	36E

SAMPLE ID	PID	SAMPLE ID	PID
Imported Top Soil	0.2		
	·		
			-

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

SIGNATURE:

DATE: 1-28-13



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

REVEGETATION FORM

1. General I	nformation .						
Site name: EMI	E I-35 EOL						
U/L Section	Township	Range	County	Latitud			ngitude
P 35	19S	36E	LEA	N32°36'4	7:96.	W103	3°19'5.44
Contact Name:	Zachary Conder						
Email: zconder	@rice-ecs.com						
	0 square feet	M	lap detail o	f site attached	-		
Additional infor	mation:		,				
2. Soils						ning shall be remove	
Salvaged from s		nediated [<u> </u>	Blended 🗌	Depth (ir	1):
Texture		be soil & s			psoil/excavated		4
Soil prep metho		Deptl	ı(ın):	Disc 🛛 D	epth (in): 6"	Roller pack	
Date completed	2-4-2013						
3. Bioremed	iation						
Fertilizer				Hay 🔲	Other 🔯		
Type:				1,	Describe: 15	bags Restor-N-H	ance
					1:	5 bags Poiling soil	· '
Lbs/acre:						4 bags Manure	
4. Seeding	*Attach seed	bag tags to	this form. Se	ed bag tags shall co	ontain the site na	me and S-T-R.	
Custom seed mi		ed mix.	Seed m	ix name: 15 lbs Bl date: 2-15-2013			<u> </u>
	nical Drop Seede	ŕ					
Soil conditions	luring seeding:	:Dry 🛛	Damp	☐ Wet ☐			
Photos attached		ervations:					
Number of phot	ós:						
belief		that the info	rmation in this			ete to the best of my kr	
Name: Eduardo	Garçia /	2!		Title: Enviro	nmental Tech		Date: 2-15-2013
Signature:	wat 6	ans					

EME I-35 EOL (1R427-363) Unit Letter P, Section 35, T-19-S, R-36-E



Site prior to excavation, facing southeast 1/22/13



Scraping caliche to 1'6", facing west 1/22/13



Exporting caliche, facing north 1/22/13



Excavating the site down 4'6", facing north 1/23/13



Installing sand pad below liner, facing northeast 1/25/13



Installing liner, facing northwest 1/25/13



Liner installation completed, facing northwest 1/25/13



Padding above liner completed, facing southwest 1/28/13



Importing soil, facing northwest 1/28/13



Backfilling excavation, facing south 1/29/13



Spreading top soil over site, facing east 2/1/13



Excavation completed, facing south 2/4/13



Tilling the site, facing northwest 2/11/13



Spreading soil amendments, facing east 2/11/13



Seeding site, facing north 2/15/13



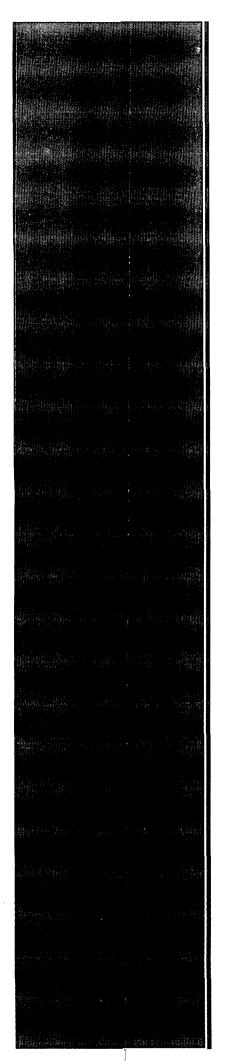
Site completed, facing east 2/15/13



Site completed, facing north 2/15/13



Site completed, facing south 2/15/13



Appendix B

EME K-6 RW-1 Groundwater Withdrawal and Lab

RICE Environmental Consulting and Safety (RECS)
P.O. Box 5630 Hobbs, NM 88241
Phone 575.393.4411 Fax 575.393.0293

Record of Groundwater Withdrawal Site Name: EME I-35 EOL (1R427-363)

			Lab Chloride	
Date	Fluid Hauled	(bbls)	Conc (ppm)	Remarks
				Started Pumping MW-1
9/27/2012			11,300	RW-1
9/28/2012	130			
10/5/2012	130			
10/8/2012	10			
10/11/2012	20			
10/19/2012	90			
10/25/2012	50			
Total For Sept/Oct		430 bbls	Total kg of Cl-	772.5192661
4		18060 gallons	Removed	



September 27, 2012

Hack Conder

Rice Operating Company

112 W. Taylor

Hobbs, NM 88240

RE: EME K-6

Enclosed are the results of analyses for samples received by the laboratory on 09/19/12 15:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

Rice Operating Company

Hack Conder 112 W. Taylor Hobbs NM, 88240

Fax To:

(575) 397-1471

Received:

09/19/2012

Sampling Date:

09/19/2012

Reported:

09/27/2012

Sampling Type:

Water

Project Name:

EME K-6

Sampling Condition:

** (See Notes)

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

EME K-6

Sample ID: RW-1 (H202290-01)

Chloride.	SM4500CI-	-R

mg/L

Analyzed By: AP

Analyte

Result

Analyzed

Method Blank

% Recovery

True Value QC

Qualifier

Chloride*

Reporting Limit 4.00

09/26/2012

ND

11300

100

100

100

0.00

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



ND

Notes and Definitions

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

Analyte NOT DETECTED at or above the reporting limit

Cardinal Laboratories

*=Accredited Analyte

Celing D. Keine

Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240, 2111 Beechwood, Abilene, TX 79603 ((505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

Company Name: 4776								3//	LL TO ANALYSIS REQUEST																
Project Manager: Hack Conder				P.O. #:							T								·						
Address:					Company:						1		ļ	Ś											
City: Hobbs State: NM Zip: 88240					Attn:							: [;]	ľ	Cations/Anions											
Phone #: Fax #:				Address:			<u> </u>	. '			7														
Project #:	Project Own	or:	٠.	. 1:			,	City:			100	≥		工	1/8		l	İ							
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Project Location	EME 18-6						:	Phone #:				le	<u>Ш</u>	Texas TPH	Ĭ.	TDS			:						
Sampler Name:			,					Fa	x*#:	- :	٠,٠	<u> </u>	Chlorides TPH 8015			BTEX	X		—					- 1	ĺ
FOR LAB USE ONLY				; == -	M	ATRI	X.	7	PR	ESER	١V.	SAMPLI	NG	S	ے ا	ľ.	<u>e</u>	e		'				, ,	,
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Cardinal cannot accopt verbal changes. Please fax written changes to 505-393-2476?