State of New Mexico Energy Minerals and Natural Resources

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

### RECEIVED

MAY 0 1 2011 Revised October 10, 2003

HOBBSOChiefrict Office in accordance with Rule 116 on back side of form

Attached 🗌

IRP-03-11-2687

States.		1.18	Rel	ease Notific	cation and Co	orrective A	ction		
					<b>OPERA</b>	TOR	🔲 Initi	al Report	Final Report
Name of Co	ompany (	Quantum Re	esources	1 40	Contact	<b>Cam Robbins</b>	the state of the state		
Address 5 Houston T		Center, 140	1 McKin	ley St. Ste 2400	Telephone I	No. (575) 390-	-4666		
Facility Nat	me NE P	Q Central B	Jattery		Facility Typ	pe Battery			
Surface Ow	mer			Mineral C	Dwner	1.2.1	Lease		
2.				LOCA	ATION OF RE	LEASE APL	# 30.025-1	PQ #6 03192.0	00.00
Unit Letter D	Section 23	Township 19S	Range 35E	Feet from the	North/South Line	Feet from the	East/West Line	County	LEA
					.65140'N Longitud		7		
Type of Rele	ase : PROI	DUCED OIL	and WAT	<b>FER</b>	Volume of	f Release 60 bbl	s Volume I	Recovered 3	0 bbls
Source of Re	lease : Hole	e in heater			Date and H	Hour of Occurrent 11/15/10	ce Date and	Hour of Disc 11/15	
Was Immedi	ate Notice	Given?		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	If YES, To	o Whom?		1.	

Was Immediate Notice Given?	If YES, To Whom?
By Whom?	Date and Hour
Was a Watercourse Reached?	If YES, Volume Impacting the Watercourse.
If a Watercourse was Impacted, Describe Fully.*	
No.	
Describe Cause of Problem and Remedial Action Taken.* Hole in heater drain line causing discharge. Spilled fluid breached be grass land 2 ft wide. The free fluids were immediately removed and s	erm area at low point NW corner and followed road 300', pooled 100' on ent to disposal.
conduct ICP delineation. Delineated the area with a track hoe and so NMOCD approved CAP on Jan. 22, 2011. RECS excavated an area 3 inches above and below the liner. The remaining soils were evaluated laboratory for confirmation of field numbers. The backfill soils show amendments were added to the soil. A fence with silk netting was inst	
regulations all operators are required to report and/or file certain release no public health or the environment. The acceptance of a C-141 report by the should their operations have failed to adequately investigate and remediate	he best of my knowledge and understand that pursuant to NMOCD rules and otifications and perform corrective actions for releases which may endanger e NMOCD marked as "Final Report" does not relieve the operator of liability e contamination that pose a threat to ground water, surface water, human health oes not relieve the operator of responsibility for compliance with any other
Signature: Cam Callo	OIL CONSERVATION DIVISION
Printed Name: Cam Robbins	Approved by District Supervisor: Joop Loking
Title: Production Foreman	Approval Date: 03 01 11 Expiration Date: -

Conditions of Approval:

 Date:
 3/1/2011
 Phone:
 (575) 390-4666

 \* Attach Additional Sheets If Necessary

E-mail Address: maximum@valornet.com

RE	C	E		1		D
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District I 1625 N. French Dr., Hobbs, NM 88240 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 1301 W. Grand Avenue, Artesia, NM 88210 <u>District III</u> 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

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

MAY 0 1 2011 Form C-141

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

#### **Release Notification and Corrective Action**

						<b>OPERA</b>	TOR		Initi	al Report		Final Repo
Name of C	ompany: N	felrose Opera	ting Comp	any OGRID 1848	60 (	Contact: Pe	tar Evtimov					
Address: 2	0333 State	Hwy 249, S	te 310, H	ouston, TX	1	Telephone 1	No. 832 698 700	00				
Facility Na	me: NEPQ	Battery			1	Facility Typ	e: Battery				-	
Surface Ov	vner:			Mineral Ov	wner				Lease 1	No.		
						OFDE	LEASE API	HRBY	WELLN	EPQ #16	2	
Unit Letter	Section	Township	Range			South Line	Feet from the		West Line	and the second se	-00	3.00
D	23	19S	35E	Teer nom me	I WON LED	South Line	reet nom the	Lasv	west Luie	Lea		
	1	Latit	ude	N32.65140		Longitud	e W103	.43388				
					IDE			110000		Lage		
TorrefDal	De	oduced oil an	daunter	NAT	IKE	OF REL	the set of	bbls	Value	D	0111	
Type of Rele Source of Re	the second se	le in heater	u water			the second se	Hour of Occurrence		and the second design of the s	Recovered 30 Hour of Disc		
Source of the					1	11/15/10			11/15/10	11011 01 17150	overy	
Was Immedi	iate Notice (		Yes [	No Not Req	uired	If YES, To	Whom?			1		
By Whom?						Date and I	the second se					
Was a Water	rcourse Read		Yes 🛛	No		If YES, Ve	olume Impacting	the Wate	ercourse.			
Hole in heat 2ft wide. The Describe Are Recovers fre	er drain line e free fluids ea Affected e fluids and ify that the i	and Cleanup / sent to dispos	arge. Spil ately remo Action Tak sal. Treated	led fluids breached wed and sent to disp	with c	hemicals. e best of my	knowledge and u	nderstan	nd that purs	uant to NMO	)CD ru	les and
public health should their o or the enviro	operations h nment. In a	ronment. The	acceptance adequately OCD accept	e of a C-141 report investigate and rem tance of a C-141 re	by the nediate	NMOCD m contamination	arked as "Final R on that pose a thre e the operator of t	eport" d eat to gr responsi	loes not reli ound water bility for co	eve the opera , surface wat ompliance wi	ator of l ter, hun ith any	liability nan health
	+	19					OIL CON	SERV	ATION	DIVISIO	N	
Signature:	1.						ENV ENCR	1				
Printed Nam	e: Petar Evti	imov			A	Approved by	Bistrict Supervise	96C	12 990	kim	2	
Title: Operat	ions Engine	er					e: 11/17/10		a	Date: 0111	8/110	
E-mail Addr	ess: pevtime	ov@melroseer	nergy.com			Conditions of	Approval: Suga	met Fi	INAC	Attached		
Date:	11/17/10	0	P	hone: 832 698 7000		1 Outroli	and all the			IRP-03	-11-	2687

\* Attach Additional Sheets If Necessary

RECEIVED



MAY 0 1 2011 HOBBSOCD Rice Environmental Consulting & Safety P.O. Box 5630 Hobbs, NM 88241 Phone 575.393.4411 Fax 575. 393.0293

March 1<sup>st</sup>, 2011

Mr. Geoffrey Leking New Mexico Energy, Minerals, & Natural Resources Oil Conservation Division, Environmental Bureau 1625 N. French Drive Hobbs, New Mexico 88240

RE: Quantum Resources Northeast Pearl Queen Central Tank Battery Accidental Discharge 1RP-1210-2665 TERMINATION REQUEST Unit Letter D, Sec. 23, T19S, R35E Lea County, New Mexico

Mr. Leking,

Quantum Resources has retained Rice Environmental Consulting and Safety (RECS) to address environmental concerns at the above-referenced site.

#### **Background and Investigation work**

The site is located approximately 16 miles east of Hobbs, New Mexico in Unit Letter D, Sec. 23, T19S R35E. On November 15, 2010, NMOCD discovered an accidental discharge (AD) of approximately sixty barrels of produced water released from a hole in the heater drain line. Thirty barrels of fluid were recovered and properly disposed and the line was permanently repaired. Quantum Resources submitted an initial C-141 on November 17, 2010 (Figure 1). RECS had a meeting with Geoffrey Leking of the NMOCD District One office on November 29, 2010 and obtained verbal approval to perform Investigation & Characterization of the accidental discharge. Based on the Investigation & Characterization work, RECS proposed the following as a Corrective Action Plan on January 21<sup>st</sup>, 2011. The Plan was approved by NMOCD on January 22<sup>nd</sup>, 2011.

#### **Corrective Action Recommendations for Remediation Activities**

Based on the fact that there is no groundwater below the leak site, the leak will in no way contribute to groundwater impairment. RECS recommends the following actions:

• Because of the high concentrations of chlorides beneath Point Four, RECS recommends that a poly liner measuring 35 ft x 96 ft be placed at 4 ft bgs. The liner will be sand packed 6 inches above and below the liner.

- The soils from the entire site will be evaluated on site to use as backfill and if justified returned to the trench excavations, the scraped areas, and placed over the poly liner. The backfill soils must have a field chloride reading below 500 mg/kg and PID reading below 100 ppm before it is placed over the liner.
- The entire site will then be prepared for reseeding by applying soil amendments as necessary to support vegetation. The site will be reseeded with native vegetation and will be expected to return to normal capacity. The vegetation will provide an evapotranspiration layer at the site that will further inhibit the downward movement of the chlorides. Plants capture water through their roots and so reduce the amount of water infiltrating below the root zone and transporting residual chloride.

#### **Corrective Action Plan Implementation**

The CAP work began on January 28<sup>th</sup>, 2011. Photos of these activities are located in Appendix A. The site was excavated to 96 ft by 35 ft by 4 ft bgs. By February 9<sup>th</sup>, 2011, the site was completely excavated and 60 yards of chloride impacted soil had been taken to Sundance for disposal. On February 11<sup>th</sup>, 2011, the excavation was covered with 6 inches of clean blow sand in preparation for the poly liner. On February 14<sup>th</sup>, 2011, the poly liner was placed over the sand pad. Another 6 inches of clean blow sand was placed over the liner to protect the liner integrity. A total of 120 yards of blow sand was imported to serve as padding for the liner. From February 16<sup>th</sup>, 2011 to February 22<sup>nd</sup>, 2011, the soil from the excavation was blended on site to use as backfill. A total of 96 yards of chloride impacted soil was taken to Sundance for disposal. A total of 236 yards of clean blow sand was imported and blended into the remaining soil to aid in cutting the chloride levels down to below 500 mg/kg.

On February 21<sup>st</sup> and 22<sup>nd</sup>, 2011, the samples from the backfill were taken to a commercial laboratory for confirmation of the field testing (Appendix B). The laboratory tests for the sample taken on February 21<sup>st</sup>, 2011 showed a chloride reading of 384 mg/kg and GRO reading of non-detect and a DRO reading of 56.9 mg/kg. The laboratory tests for the sample taken of February 22<sup>nd</sup>, 2011 showed a chloride reading of 496 mg/kg, a GRO reading of non-detect and a DRO reading of 57.9 mg/kg.

On February 24<sup>th</sup>, 2011, 120 yards of clean blow sand was imported to complete the backfill of the site (Appendix C). The site was contoured to match the surrounding area. On February 25<sup>th</sup>, 2011, eleven bags of Bio-Nhance were blended into the topsoil to add soil nutrients. A fence lined with silk netting was installed around the site to reduce wind erosion of the soils and to keep the seed from blowing away. On February 28<sup>th</sup>, 2011, the site was seeded with a native vegetative mix.

Since Quantum Resources completed all parts of the Corrective Action Plan, we submit the Final C-141 (Figure 2) and ask for Termination status for this site.

I appreciate the opportunity to work with you on this project. Please call me at (575) 631-6432 if you have any questions or need additional information.

Sincerely,

lander

Hack Conder

Environmental Manager

cc: Cam Robbins, Maximum Wyatt Yates, Quantum Resources Martin Williams, Quantum Resources

Attachments: Figure 1 – Initial C-141 Figure 2 – Final C-141 Appendix A – Photo documentation of CAP work Appendix B – Backfill laboratory confirmation Appendix C – Poly liner installation Appendix D – Disposal and haul tickets

## Figures

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

### Appendix A Photo Documentation of CAP work

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

#### NE Pearl Queen Central Battery Unit D, Section 23, T-19-S, R-35-E



Site prior to excavation, facing southwest



Excavating, facing south



Final Excavation, facing east



Excavation with sand padding, facing west



Poly liner installed, facing west



Padding on top of Poly liner with sand, facing north



Backfilling excavation, facing east



Importing soil facing southwest



Blending Backfill, facing west



Seeding site, facing south



Tilling the seed into the soil using a tractor, facing southwest



Site completed, facing southwest



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

**REVEGETATION FORM** 

1. General Informat	tion		<b>ODIIIIIIIIIIIII</b>						
Site name:	NE Pearl C	ueen Central B	ettery						
U/L	Section	Township	Range	County	Latitude	Lon	gitude		
D	23 19S 35E Lea N. 32°.65140 W.103°.43388								
Contact Name:	Hack Co	nder							
Email:									
hconder@riceswd.com									
Site size:15249		square feet	Map de	tail of site atta	ched 🖂				
Additional information:									
2. Soils *D	o not rip calic	he subsoils: calic	he rocks broug	ht to the surface	by ripping shall	he removed			
Salvaged from site	Bioremed		Imported 🛛	Blended		Depth (in):			
Texture:	Describe s	soil & subsoil:							
Soil prep methods: R	ip 🗌	Depth(in):	Disc	] Depth (in	i): Rol	llerpack			
Date completed:					·		1		
2 /28 /2011									
3. Bioremediation							A Au		
Fertilizer			Hay	1	(	Other			
Type: Bio-Enh	ance		IIay	1		Describe:			
	r .4 of acre					Describe.			
LUS/dele. 5501010.	1.4 01 dere								
4. Seeding *At	tach seed bag	tags to this form.	Seed bag tags	shall contain th	e site name and S	<i>S-T-R</i> .			
Custom seed mix 🛛	Prescribed n	nix 🗌 🛛 Seed	mix name:	Doom Mix		Seeding date:	2/28 /2011		
Broadcast									
Method: Push Spreader									
Soil conditions during se	eeding: I	Dry 🛛 Dan	np 🗌 Wet [						
Photos attached	Observa	ations:							
Number of photos:									
5. Certification I he	reby certify that	the information in	this form and atta	chments is true a	nd complete to the l	hest of my knowledge	and helief		
Name: Jordan V		the information in	Title:	the second se	ental Tech.	Date:	3/1/2011		
Signature:		Janha	/			1			
	(								

#### **DISTURBED AREA REPORT**

LOCATION: NE Pearl Queen Central Battery

LAND OWNER: State leased to Patrick Sims

SIZE & SQFT OF EFFECTED AREA: 15249sq ft

UL/ SEC - T - R UL/D Sec 23 T198 R35E

GPS LAT & LON NAD27: N. 32.65140 W. 103.43388

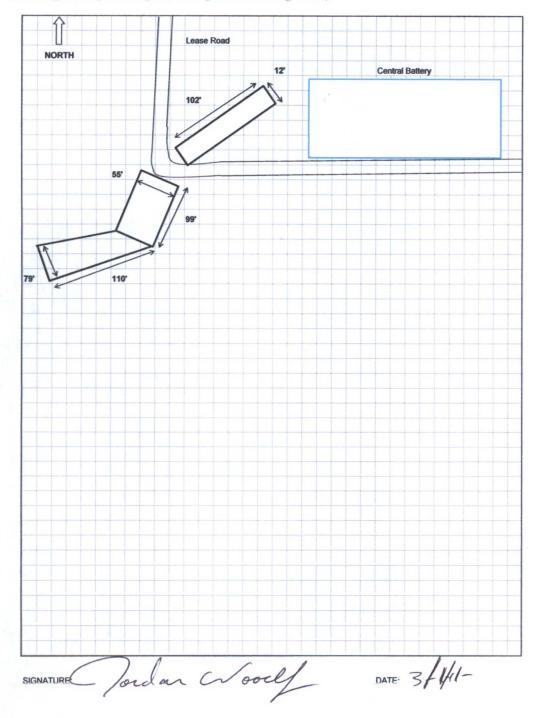
DATE BACKFILLED: 2-24-11

DATE SEEDED: 2-28-11

DEPTH TO GW: None

AMOUNT AND TYPE OF SEED USED: 30lbs of Titricale & 30lbs Mix (included:sand dropseed, green spranletop

plains bristlegrass, blue grama, black grama, sideoats grama, tall fescue, sorghum alum)



## Appendix B Backfill laboratory confirmation

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

February 22, 2011

HACK CONDER RICE ENVIRONMENTAL CONSULTING & SAFETY LLC 112 W. TAYLOR HOBBS, NM 88240

RE: NE PEARL QUEEN CENTRAL BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 02/21/11 15:27.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021Benzene, Toluene, Ethyl Benzene, and Total XylenesMethod SW-846 8260Benzene, Toluene, Ethyl Benzene, and Total XylenesMethod TX 1005Total Petroleum Hydorcarbons

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

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 (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. Keine

Celey D. Keene Lab Director/Quality Manager

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

#### Analytical Results For:

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

Received:	02/21/2011	Sampling Date:	02/21/2011
Reported:	02/22/2011	Sampling Type:	Soil
Project Name:	NE PEARL QUEEN CENTRAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

#### Sample ID: BLENDED BACKFILL (H100344-01)

Chloride, SM4500CI-B	mg	/kg	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	02/22/2011	ND	368	92.0	400	4.26	
TPH 8015M	mg	/kg	Analyzed By: AB				1.02		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/22/2011	ND	201	100	200	2.47	
DRO >C10-C28	56.9	10.0	02/22/2011	ND	201	100	200	3.34	
Surrogate: 1-Chlorooctane	99.4	% 70-130							1
Surrogate: 1-Chlorooctadecane	95.7	% 70-130	A						

#### **Cardinal Laboratories**

\*=Accredited Analyte

REASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or bort, shall be limited to the anount 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.

Celey D.Kune

Celey D. Keene, Lab Director/Quality Manager

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

#### **Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
	Chloride by 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

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Page 3 of 4

CARDINAL Laboratories

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

										 _		
REQUEST								~		1031-1278	1 E	
ANALYSIS RE										RUSH	DNO Addit Phone #: DNO Addit Fax #: CUAIL 22	N
					and the second se	V		208.HJL -10	276m 2X	ount paid by the client for the Jays after completion of the applicable the by dent, its subsidiaries,	Phone Result: DYes DNO Addit Phone #: Fax Result: DYes DNO Addit Fax #: REMARKS: CANDER CANAIL RESU HCONDER RICE SWD. COM	LWEINHEIMER
DITTIO	P.O.#:	Company:	Address:	City:	State: Zip:	Phone #:	l	NALER   SABOOL CE/COOL CE/COOL SAMPLING	1+12-2 X	based in contract of tot, shall be limited to the amount paid ade in writing and received by Cardinal within 30 days after instructionon, base of used of base of paids theoremed by dis the struction drine is based random and the above attend to set		CHECKED BY:
rices		122100	Ch-02 :dr		BATTER	iley !				<ul> <li>claim arising whether based in contract or tort, emed walved unless made in writing and receive althout instation, business interruption, loss of t dual recordings of whether such chain is base of</li> </ul>	Received By: COCLE Boeived By:	Sample Condition Cool Intact
Juartur 1000	RECS	1. TAylok 1022	4 DC16	Project Owner:	NEPEARCQUEENC	Nº.	JURANAN WOODLAR	Sample I.D.	Brewsed Backful	PLEASE NOTE: Liability and Dumages. Cardinals liability and Elents acclusion immedy for any datum arising whether based in contract or toot, shall be limited to the amount paid by the client for the analyses. All claims including those for negligations and any other course whateoers shall be deemed unkers made in writing and received by Cardinal within 30 days after completion to the applicable areafore. In one central claims for angigations and any other course whateoers shall be deemed unkers made in writing and received by Cardinal within 30 days after completion to the applicable areafore. In one central claims for the ben including transmiss, the and unknows, taking strateging to a state, and state of the strateging and be a trade of the median and account by the above above to strateging and a for related to the mediane through the home days after and write and the short for short of the applicable attractions of strateging and of the another and any claims to Cardinal be mediane at the value and the short of the above above the another attraction and the short of the short of the above above and any claim and a strateging and of the above above the above above above and and a strateging and of the another attraction and and a strateging and and a strateging and a strateging and a strateging and a strateging above become above abo	Date: 21	cle One) - Other:
	Project Manager:	Address: 122 W. TAYLOR	Phone #: 383 - 9170	1	Project Name: N	roject Location:NE		FOR LUB USE ONLY Lab I.D.	HIDERYLY BLE	EASE NOTE: Liability and Damages alyses. All claims including those for Nrice. In no event shall Cardinal be li liates or successors arising out of or	ished	Delivered By: (Circle One) Sampeter - UPS - Bus - Other:

February 23, 2011

HACK CONDER RICE ENVIRONMENTAL CONSULTING & SAFETY LLC 112 W. TAYLOR HOBBS, NM 88240

RE: NE PEARL QUEEN CENTRAL BATTERY

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Method SW-846 8021Benzene, Toluene, Ethyl Benzene, and Total XylenesMethod SW-846 8260Benzene, Toluene, Ethyl Benzene, and Total XylenesMethod TX 1005Total Petroleum Hydorcarbons

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Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

#### Analytical Results For:

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

Soil
Cool & Intact
Jodi Henson

#### Sample ID: BLENDED BACKFILL #2 (H100356-01)

Chloride, SM4500CI-B	mg/kg		Analyze	d By: HM			-		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	02/22/2011	ND	368	92.0	400	4.26	
TPH 8015M	mg	/kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/23/2011	ND	207	103	200	2.48	
DRO >C10-C28	57.9	10.0	02/23/2011	ND	199	99.6	200	7.32	
Surrogate: 1-Chlorooctane	120	% 70-130						1. 1. 1. 1.	
Surrogate: 1-Chlorooctadecane	118	% 70-130							

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

REASE 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 whotsoever shall be deemed waited unkess made in writing and received by client, lis subsidiaries, affiliates or 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 anking out of or related to the performance of the services hereunder by Cardinal, regardless of whether such client is based upon any of the adverse table resons or otherwise. Results relate only to the samples teallified exercise.

Celey 1.t une

Celey D. Keene, Lab Director/Quality Manager

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

#### **Notes and Definitions**

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RPD	Relative Percent Difference
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**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 whistoever shall be deemed watered 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 incidential or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its substituries, affiliates or successors arbiting out of or related to the performance of the services hereander by Cardinal, regardless of whether such claims based uncore studer demonstration contracts.

Celey D.Keine

Celey D. Keene, Lab Director/Quality Manager

Page 3 of 4



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Page 4 of 4

t Cardinal cannot accept verbal changes. Please fax written changes fo 593-393-2476

## Appendix C Poly liner installation

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

Drafted by: Lara Weinheimer Drawing date: 3/1/2011

Appendix C

Ft BGS Z 4.5 -----I Excavation Boundary Poly Liner TPH 56.9 TPH 57.9 35 ft Cl- 384 Cl- 496 Blended Backfill #2 Blended Backfill Poly Liner Blow Sand Blow Sand Blow Sand Blended Backfill 2.5 S ÷ .9 0



Poly Liner Installation

Phone (575) 393-9174 Fax (575) 393-0293 Hobbs, NM 88241 P.O.Box 5630

# **Central Battery AD** NE Pearl Queen

Legals: UL/D sec. 23 T19S R35E NMOCD Case #: 1RP-1210-2665

## Appendix D Disposal and haul tickets

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

LEASE NAME:

DATE 1-28

CHARGE TO:

RRC or API#

SUNDANCE SERVICES, Inc. 158949 TICKET No. P.O. Box 1737 Eunice, New Mexico 88231 (\$75) 394-2511 Melrose Oper LEASE OPERATOR/SHIPPER/COMPANY: PED TA TRANSPORTER COMPANY: Parker TIME 7. AM/PM VEHICLE NO: 16 GENERATOR COMPAN hou MANSNAME NG NAME APICOSE TYPE OF MATERIAL [] Production Water [ ] Drilling Fluids [] Rinsate [] Tank Bottoms M Contaminated Soil [ ] Jet Out BS&W Content: [ ] Solids [] Call Out Ola Description: C-133# **VOLUME OF MATERIAL** [ ] BBLS. YARD () AS A CONDITION TO SUNDANCE SERVICES, INC'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. \$ 6901, et seq., THE NM HEALTH AND SAF. CODE \$ 361,001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY. ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY

OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC:S FACILITY FOR DISPOSAL THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident. DRIVER: (DCN FACILITY REPRESENTATIVE Dalle Amer ISIGNATURE

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

der froms TOTALLY SHARP ADVIERTISING .	4\$2-586-5401 - www.PtomoSupermarker.com
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