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

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 For drilling and production facilities, submit to appropriate NMOCD District Office.
For downstream facilities, submit to Santa Fe office

Form C-144

June 1, 2004

Pit or Below-Grade Tank Registration or Closure
Is pit or below-grade tank covered by a "general plan"? Yes No [

Type of action: Registration of a pit or below-grade tank 🔲 Closure of a pit or below-grade tank 🗵				
Operator: Elm Ridge Resources Telephone: (505) 632-3476 e-mail address: amackey1@elmridge.net				
Address: #20 CR 5060, Bloomfield, New Mexico, 87413 Facility or well name:				
	ongitude -107.37012 NAD: 1927 ⊠			
	onigitude -107.57012 NAD. 1927	1903		
Surface Owner: Federal State Private Indian		16		
Pit	Below-grade tank	200		
Type: Drilling Production Disposal	Volume: 20 bbl Type of fluid:	Signa .		
Workover Emergency	Construction material: Fiberglass			
Lined Unlined Union	Double-walled, with leak detection? Yes If not,	explain why not.		
Liner type: Synthetic Thicknessmil Clay _	No, Tank in Place prior to rule 50	E Comment		
Pit Volumebbl				
Depth to ground water (vertical distance from bottom of pit to seasonal	Less than 50 feet	(20 points) 2 p/ 8/		
high water elevation of ground water.)	50 feet or more, but less than 100 feet	(10 points)		
and the state of ground warren,	100 feet or more	(0 points) 20		
W. III . 1	Yes	(20 points)		
Wellhead protection area: (Less than 200 feet from a private domestic	No	(0 points) 0		
water source, or less than 1000 feet from all other water sources.)				
Distance to surface water: (horizontal distance to all wetlands, playas,	Less than 200 feet	(20 points)		
irrigation canals, ditches, and perennial and ephemeral watercourses.)	200 feet or more, but less than 1000 feet	(10 points)		
	1000 feet or more	(0 points) 20		
Ranking Score (Total Points) 40				
If this is a pit closure: (1) Attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location: (check the onsite box if				
your are burying in place) onsite offsite offsite, name of facility Envirotech Landfarm #2 . (3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered: No offsite offsite, name of facility Envirotech Landfarm #2 . (3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered: No offsite offsite, name of facility Envirotech Landfarm #2 . (3) Attach a general description of remedial action taken including				
	•	nt. and attach sample results.		
(5) Attach soil sample results and a diagram of sample locations and excavations.				
Additional Comments:				
Approximately 130 cubic yards of contaminated soil was excavated and ha	uled to Envirotech's NMOCD permitted landfarm for	remediation.		
		·		
I hereby certify that the information above is true and complete to the best	of my knowledge and belief. I further certify that the	e above-described pit or below-grade tank		
has been/will be constructed or closed according to NMOCD guidelines , a general permit pr an (attached) alternative OCD-approved plan.				
Date: 5/24/06				
Printed Name/Title Ms. Amy Mackey, Production Technician	Signature \mu Vacke	<u> </u>		
Your certification and NMOCD approval of this application/closure does n	ot relieve the operator of liability should the contents of	of the pit or tank contaminate ground water or		
otherwise endanger public health or the environment. Nor does it relieve the regulations.	ne operator of its responsibility for compliance with an	y other federal, state, or local laws and/or		
ropametoria.	·			
Ammoval	DAM			
Approval: Printed Name/Title Signature	MAY 2 5 200	R		
Printed Name/Title Signature Date:				

CLIENT:		Env	IROTECI	1 INC.	·		וא ואחודג]:
CLIENT		5796 FARMIN	NTAL SCIENTISTS U.S. HIGHWAY IGTON, NEW ME ONE: (505) 632	64-3014 CCO 87401		ĺ		D:
FIELD REPOR	T:	CLOSU	RE V	ERIFIC	CATION	PAGE	No:	
LOCATION: NAME: Jicarina QUAD/UNIT: D SEC:						1 DATE		5/8/06
QTR/FOOTAGE: 1190 FNL	1190 f	WE CONT	RACTOR:	Franks		SPECIA	NMENTAL LIST:	GWC_
EXCAVATION APPROX!5 DISPOSAL FACILITY: LAND USE:	irotech	LAMOFAR	n "2	EMEDIATI		HOD: <u></u>	Ano Fare	1
FIELD NOTES & REMARI DEPTH TO GROUNDWATER: 450		IT LOCATED						1
NMOCD RANKING SCORE: 40! SOIL AND EXCAVATION			E STD: _ 10	<u>)</u> PPM	i	X PIT		
Approximately 130 to envirotech	TIME	SAMPLE I.D.	FIEL	D 418.1 CAL WEIGHT (g)	CULATIONS ml. FREON	DILUTION	READING	CALC. ppm
SCALE 0 FT	1500	Bottomposite Wark Composi Std.	a	5.0	20	4	283 132 2	207
PIT PERIME	TER		OVM RESULT	S EADSPACE (ppm)	PI	r pr	OFILE	1
Dehy		1 10	m 299	(ppm)	$\overline{}$; i	* 1	,
						* 1	* · ×	
7.0	arilla Api F No. 8	SAMPLE ID	AB SAMPL ANALYSIS	ES TIME	E- Wall S	ample sample	*	
TRAVEL NOTES:						ÿ		
CALLOUT:				NSITE:				
						.*	•	



Client:

Elm Ridge Resources

Project #:

03056-040-037

Sample No.:

1

Date Reported:

5/12/2006

Sample ID:

Bottom Composite at 6' BGS

Date Sampled:

5/3/2006

Sample Matrix:

Soil

Date Analyzed:

5/3/2006

Preservative:

Cool

Analysis Needed:

TPH-418.1

Condition:

Cool and Intact

		Det.
	Concentration	Limit
Parameter	(mg/kg)	(mg/kg)

Total Petroleum Hydrocarbons

1,132

5.0

ND = Parameter not detected at the stated detection limit.

References:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water

and Waste, USEPA Storet No. 4551, 1978.

Comments:

Jicarilla Apache "F" No. 8

Instrument calibration checked against 200 ppm standard. Zeroed before each sample

Analyst



Client:

Elm Ridge Resources

Project #:

03056-040-037

Sample No.:

2

Date Reported:

5/12/2006

Sample ID:

Wall Composite

Date Sampled:

5/3/2006

Sample Matrix:

Soil

Date Analyzed:

5/3/2006

Preservative:

Cool

Analysis Needed:

TPH-418.1

Condition:

Cool and Intact

		Det.
	Concentration	Limit
Parameter	(mg/kg)	(mg/kg)

Total Petroleum Hydrocarbons

528

5.0

ND = Parameter not detected at the stated detection limit.

References:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water

and Waste, USEPA Storet No. 4551, 1978.

Comments:

Jicarilla Apache "F" No. 8

Instrument calibration checked against 200 ppm standard. Zeroed before each sample

Analyst



Client:

Elm Ridge Resources

Project #:

03056-040-037

Sample No.:

1

Date Reported:

5/12/2006

Sample ID:

Bottom 5-point composite at 12' BGS

Date Sampled:

5/8/2006

Sample Matrix:

Soil

Date Analyzed:

5/8/2006

Preservative:

Cool

Analysis Needed:

TPH-418.1

Condition:

Cool and Intact

		Det.
	Concentration	Limit
Parameter	(mg/kg)	(mg/kg)

Total Petroleum Hydrocarbons

88

5.0

ND = Parameter not detected at the stated detection limit.

References:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water

and Waste, USEPA Storet No. 4551, 1978.

Comments:

Jicarilla Apache "F" No. 8

Instrument calibration checked against 200 ppm standard. Zeroed before each sample

Analyst



Client:

Elm Ridge Resources

Project #:

03056-040-037

Sample No.:

2

Date Reported:

5/12/2006

Sample ID:

Wall composite

Date Sampled:

5/8/2006

Sample Matrix:

Soil Cool Date Analyzed:
Analysis Needed:

5/8/2006 TPH-418.1

Preservative:

Condition:

Cool and Intact

		Det.
	Concentration	Limit
Parameter	(mg/kg)	(mg/kg)

Total Petroleum Hydrocarbons

32

5.0

ND = Parameter not detected at the stated detection limit.

References:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water

and Waste, USEPA Storet No. 4551, 1978.

Comments:

Jicarilla Apache "F" No. 8

Instrument calibration checked against 200 ppm standard. Zeroed before each sample

Analyst



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Elm Ridge Resources	Project #:	03056-040-037
Sample ID:	Bottom Composite	Date Reported:	05-10-06
Laboratory Number:	37081	Date Sampled:	05-08-06
Chain of Custody:	15950	Date Received:	05-08-06
Sample Matrix:	Soil	Date Analyzed:	05-10-06
Preservative:	Cool	Date Extracted:	05-09-06
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)	
Benzene	6.7	1.8	
Toluene	73.0	1.7	
Ethylbenzene	8.2	1.5	
p,m-Xylene	302	2.2	
o-Xylene	120	1.0	
Total BTEX	510		

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	97.0 %
	1,4-difluorobenzene	97.0 %
	Bromochlorobenzene	97.0 %

References:

Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA,

December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846,

USEPA, December 1996.

Comments:

Jicarilla Apache F #8.

Muster M Wellers
Analyst

Review

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EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Elm Ridge Resources	Project #:	03056-040-037
Sample ID:	Wall Composite	Date Reported:	05-10-06
Laboratory Number:	37082	Date Sampled:	05-08-06
Chain of Custody:	15950	Date Received:	05-08-06
Sample Matrix:	Soil	Date Analyzed:	05-10-06
Preservative:	Cool	Date Extracted:	05-09-06
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)	
Dannana	23.2	1.8	
Benzene Toluene	25.2 459	1.7	
Ethylbenzene	65.3	1.5	
p,m-Xylene	560	2.2	
o-Xylene	87.7	1.0	
Total BTEX	1,200		

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	99.0 %
	1,4-difluorobenzene	99.0 %
	Bromochlorobenzene	99.0 %

References:

Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA,

December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846,

USEPA, December 1996.

Comments:

Jicarilla Apache F #8.

Analyst Mesters

Review

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