DISTRICT I P.O. Box 1980. Hobbs, NM 88240 DISTRICT II P.O. Drawer DD, Artesia, NM 88210 DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410

State of New IVIEXICO
Energy, Minerals and Natural Resources Department

DISTRICT OFFICE

DEPUTY OIL & GAS INSPECTOR COPY TO

SANTA FE OFFICE

SUBMIT 1 COPY TO

OIL CONSERVATION DIVISION P.O. Box 2088 Santa Fe, New Mexico 87504-2088

SEP 1 0 1996

(Revised 39/94)

PIT REMEDIATION AND CLOSURE REPORT

				<u> </u>
Operator: UNOCAL	S - Make ass	Telepho	one: <u>'</u> 801 – 686 – 7	'604
Address: P.O. Box 760 Moab, Utah 84532				
Facility Or: Rincon Unit 150 DK Well Name				
Location: Unit or Qtr/Qtr Sec A Sec	:06 T 26N R 6W Cou	nty	Rio Arriba	
Pit Type: Separator Deyhdrator	OtherTank			
Land Type: BLM X , State, Fee	, Other		· -	
Pit Location: Pit dimensions: Length (Attach diagram) Reference: well head	15' , width 15'		, depth 3-	4'
Footage from reference:	25'			· - ·
Direction from reference:	45 Degerees X		East North of West South	
Depth To Ground Water: (Vertical distance from	Less than 50 feet 50 feet to 99 feet		(20 points)	
contaminants to seasonal high water elevation of ground water)	Greater than 100 feet		(10 points) (0 points)	0
Wellhead Protection Area: (Less than 200 feet from a priavate domestic water source, or; less than 1000 feet from all water sources)	125) 5 - Ti 2006	Yes No	(20 points) (0 points)	0
Distance To Surface Water:	Less than 200 feet		(20 points)	
(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks. irrigation canals and ditches)	200 feet to 1000 feet Greater than 1000 feet		(10 points) (0 points)	10
	RANKING SCORE (TOTAL F	POINTS) :		10

Date Remediation	Started: 08/04/94	Date completed:	08/04/94
Remediation Method:	Excavation X	Approx. cubic yards	425
(Check all appropriate sections)	Landfarmed X	Insitu Bioramediaiton	9 -
	<u></u>		_
	Other		
Remediation Location:	Onsite X Offsite		
(ie. landfarmed onsite, na offsite facility)	ame and location of		
General Description	of Remedial Action: Excavated so	il to depth of 16'. Refilled v	vith clean soil.
installed double walle	ed tank with leak detection. Excav	rated to below closure stan	dards.
TPH = 865 mg/kg	3TEX = 2.9		
The contaminated so	il was landfarmed on the Rincon	Unit 150 DK/GL location.	
A PIT CLOSURE APP	PROVAL IS REQUESTED based or	nthe attached test results fr	om the landfarm.
TPH = 24.5 mg/kg	BTEX = Non-detect with PID for	or organic vapors.	
Ground Water Encoun	tered: No X Ye	es Depth	
Closure Sampling:	ample location Sampled @ full re	ach of Trackhoe - 16'.	
(if multiple samples, attach sample results			
1	ample depth16'		
	ample date <u>08/05/94</u>	Sample time	
Sa	ample Results		
	Benzene (ppm) .003		
	Total BTEX (ppm) 2.9		
	Field headspace (ppm) 9	.4-<2500	
	TPH 865 mg/kg	 	
Ground Water Sample	e: Yes No X (if yes	s, attach sample results)	
I HEREBY CERTI	FY THAT THE INFORMATION GE AND BELIEF.	N ABOVE IS TRUE AND	COMPLETE TO THE BEST
DATE 11/29/95			
SIGNATURE	PRINTI AND T	ED NAME Mike Tabet ITLE Staff HES Coor	dinator



OFF: 505) 325-8786

LAB: (505) 325-5667

Mike Tabet UNOCAL P O. Box 850 Bloomfield, NM.

RE: Landfarm Closure of Phase I (1994 Operations) on the Rincon Lease

Mr. Tabet,

On Wednesday the November 26, 1995 landfarms constructed in 1994 were sampled. Five point composite samples were taken and analyzed using EPA Method 8015 for TPH (Total Petroleum Hydrocarbons). Laboratory results for the sampling are included with this report. Soils were checked using a PID (Photoinozation Detector) for organic vapor. All landfarms constructed in 1994 were nondetect for organic vapors. The following is a list of landfarms sampled during this sampling event.

Rincon 150, Rincon 123, Rincon 99, Rincon 99A, Rincon 29A, Rincon 78, Rincon 253, Rincon 149,

This closes the landfarms constructed in the summer of 1994. If there are any questions concerning this information or the status of the 1995 landfarming event please call Jon Little with On Site Technologies, Ltd.

Sincerely,

Jon Little

Project Geologist

On Site Technologies, Ltd

Üle: 4-1188

Formula Car Dienenia



LAB: (505) 325-5667

TOTAL PETROLEUM HYDROCARBONS

Attn:

Cindy Gray

Date:

1-Nov-95

Company: On Site Technologies, Ltd.

COC No.:

Address:

3612

657 W. Maple

Sample No.

8912

City, State: Farmington, NM 87401

Job No.

4-1122

Project Name:

CARDENCINI Unocal Rincon Lease

Project Location:

Rincon 150 DIC

Date:

25-Oct-95 Time:

12:41

Sampled by: Analyzed by:

JL DC

Date:

1-Nov-95

Type of Sample:

Soil

Laboratory Analysis

Analyte		Result	Units of Measure	Detection Limit	Units of Measure
Gasoline Range (C5 - C9)		7.1	mg/kg	5.0	mg/kg
Diesel Range (C10 - C28)		17.4	mg/kg	5.0	mg/kg
	TOTAL	24.5	mg/kg		

Quality Assurance Report

GRO QC No.:

0429-STD

DRO QC No.:

0430-STD

Calibration Check

Analyte	Method Blank	Units of Measure	True Value	Analyzed Value	% Diff	Limit
Gasoline Range (C5 - C9)	< 1	ррт	1,351	1,406	4.1	15%
Diesel Range (C10 - C28)	< 5	ррт	2,000	2,143	7.1	15%

Matrix Spike

Analyte	1- Percent Recovered	2 - Percent Recovered	Limit	%RSD	Limit
Gasoline Range (C5-C9)	89	111	(70-130)	16	20%
Diesel Range (C10-C28)	93	88	(70-130)	4	20%

Method - SW-846 EPA Method 8015A mod. - Nonhalogenated Volatile Hydrocarbons by Gas Chromatography

Approved by:

P. O. BOX 2606 • FARMINGTON, NM 87499

7. A 25. C. Y.	16 CMP. 5.23	612,52 A2,53	CNI-1 (ART) @ 16' NE 72520 8'694 e16' 5E 9,4	Unicolar Cossins
	122 ZSHL	3 Y	,	7
	1:1 1:1	<u> </u>		٠
	cr Won	4 R		
	865	COOS Front HAL		
# 57 mm	1 N			
			8	



TOTAL PETROLEUM HYDROCARBONS

Attn:

Myke Lane

Date:

8/8/94

Company: On Site Technologies, Ltd.

Lab ID:

FIELD

Address:

657 W. Maple

Sample No. Job No.

4-1111

City, State: Farmington, NM 87401 Project Name:

Unocal Corporation / Pit Remediations - Closure

Project Location:

Rincon 150 - Comp. @ 16'

Date:

8/5/94 Time:

NA

Sampled by: Analyzed by: ML ML

Date:

8/5/94

Type of Sample:

Soil

Laboratory Analysis

Laboratory Identification		Total Petroleum Hydrocarbons
	Unocal Corporation / Pit Remediations - Closure	
FIELD	Rincon 150 - Comp. @ 16'	865 mg/kg

Method - EPA Method 418.1 Total Petroleum Hydrocarbons

Approved by:



AROMATIC VOLATILE ORGANICS

Attn:

Myke Lane

Date:

8/8/94

Company: On Site Technologies Ltd.

Lab ID:

1758

Address:

657 W. Maple

Sample ID:

2379

City, State: Farmington, NM 87401

Job No.

4-1111

Project Name:

Unocal Corporation / Pit Remediations

Project Location:

Rincon 150 @ 16' Emeg. Pit

Time:

8:30

Sampled by: Analyzed by: ML DLA Date: Date:

8/5/94 8/8/94

Sample Matrix:

Soil

Aromatic Volatile Organics

Component	**Measured Concentration ug/kg
Benzene	3.4
Toluene	8.5
Ethylbenzene	134
m,p-Xylene o-Xylene	2,702
o-Xylene	39.3
	TOTAL 2,887 ug/kg

ND - Not Detectable

** - Method Detection Limit, 2 ug/kg

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: Bell Valid, PhD
Date: 8/9/94

FAX: (505) 327-1496 • 24 HR. - (505) 327-7105 • OFF.: (505) 325-8786 3005 NORTHRIDGE DRIVE - SUITE F - P. O. BOX 2606 - FARMINGTON, NEW MEXICO 87499



QUALITY ASSURANCE REPORT

for EPA Method 8020

Date Analyzed: 8/8/94

Internal QC No.:

0222-STD

Surrogate QC No.:

0223-STD -

Reference Standard QC No.:

0355-STD

Method Blank

Analytes in Blank	Amount
Average Amount of All Analytes In Blank	<1 ppb

Calibration Check

Calibration Standards	Units of Measure	*True Value	Analyzed Value	% Diff	Limit
Benzene	ppb	20	20	1	15%
Toluene	ppb	20	20	2	15%
Ethylbenzene	ppb	20	20	0	15%
m,p-Xylene	ppb	40	38	4	15%
o-Xylene	ppb	20	20	2	15%

Spike Results

opino.	Opino Mosaks						
Analyte	1- Percent Recovered	2 - Percent Recovered	Limit	%RSD	Limit		
Benzene	103	104	(39-150)	0	20%		
Toluene	99	100	(46-148)	0	20%		
Ethylbenzene	98	1.02	(32-160)	3	20%		
m,p-Xylene	102	97	(35-145)	3	20%		
o-Xylene	101	100	(35-145)	0	20%		

Surrogate Recoveries

	ate Hecoveries		
Laboratory	S1	S2	<i>S3</i>
Identification	Percent	Percent	Percent
	Recovered	Recovered	Recovered
Limits	(70-130)		
2377-1758	101		
2077 1750	101		<u> </u>

S1: Hourobenzene



TOTAL PETROLEUM HYDROCARBONS

Attn:

Mike Tabet

Company: Unocal

Address: City, State: Date:

9/21/93

Lab ID:

1251

Job No.

4-1023

Project Name:

Project Location:

Unocal Job No.4-1023

Sampled by:

CG 1 TW

Date: Date: 9/15/93

Analyzed by: Type of Sample:

Soil

9/16/93

Laboratory Analysis

Laboratory Identification	S	Total Petroleum
	Sample Identification	Hydrocarbons
0540 4054	Unocal	
0548-1251	166-1 1 ft. depth	11,520 ppm wt.
0549-1251	Unocal	THE PRINTER
	166-2 10 ft. depth	1,492 ppm wt.
0550-1251	Unocal	1,402 μμπ Ψε.
	150-1 2 ft. depth	2,146 ppm wt.
0551-1251	Unocal	2,140 ppm wt.
	150-2 10 ft. depth	1,988 ppm wt.
0552-1251	Unocal	Troce ppin vvi.
	150-3 12 ft. depth	1,630 ppm wt.
0553-1251	Unocal	Trose ppin vvi.
	223A-1 0.5 ft. depth	13,150 ppm wt.
0554-1251	Unocal	10,100 ppin vvi.
	223A-2 2.5 ft. depth	10,700 ppm wt.
0555-1251	Unocal	10,700 ββίτι Wt.
	233-1 1 ft. depth	18,260 ppm wt.
0556-1251	Unocal	10,200 μμπ ωι.
	233-2 6.5 ft. depth	13,880 ppm wt.
	Unocal	13,000 μμπ Wt.
<u> 0557-1251</u>	292-1 2 ft. depth	23 ppm wt.

EPA 418.1 Total Petroleum Hydrocarbons



PRIORITY POLLUTANTS / AROMATIC VOLATILE ORGANICS

Attn:

Mike Tabet

Date:

9/21/93

Company: Unocal

Lab ID:

1251

Address: City, State:

Sample ID: Job No.

#0550 4-1023

Project Name:

Unocal

Project Location:

150-1 2 ft. depth

Sampled by:

CG

Date:

9/15/93 9/17/93 Time:

1100

Analyzed by: Sample Matrix:

DC

Soil

Aromatic Volatile Organics

Date:

Component	**Measured Concentration mg/kg		
Benzene		0.7	
Toluene	21.7		
Chlorobenzene	5.3		
Ethylbenzene	11.2		
m,p-Xylene	56.4		
o-Xylene	2.2		
1,3-Dichlorobenzene	8.4		
1,4-Dichlororbenzene	12.0		
1,2-Dichlorobenzene		8.0	
	TOTAL	125.8 mg/kg	

ND - Not Detectable

** - Method Detection Limit, 2.0 ug/L

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: Jon 6x Date: 1/93