

Date Remediation Started: 08/09/94

Date completed: 08/09/94

Remediation Method: Excavation ☒

Approx. cubic yards 180

(Check all appropriate sections)

Landfarmed ☒

Insitu Bioremediation

Other

Remediation Location: Onsite

Offsite Rincon Unit 78 MV location – G Sec 14, T27N R7W

(ie. landfarmed onsite, name and location of offsite facility)

General Description of Remedial Action: Excavated soil to a depth of 6'. Hit sandstone. Refilled with clean soil. Installed double walled tank with leak detection.

TPH = 1800 mg/kg BTEX = 35.0 – Sandstone bottom.

The contaminated soil was landfarmed on the Rincon Unit 78 MV location.

A pit closure approval is requested based on the above test results and the Landfarm test results below.

TPH = 561 mg/kg BTEX = Non detect with PID for organic vapors.

Ground Water Encountered:

No ☒

Yes

Depth

Final Pit:

Closure Sampling:

(if multiple samples, attach sample results and diagram of sample locations and depths)

Sample location Final sample @ shale/sandstone bottom – 16'

Sample depth 16'

Sample date 03/14/94

Sample time

Sample Results

Benzene (ppm) 0.08

Total BTEX (ppm) 5.1

Field headspace (ppm) 101 – >2500

TPH 1091 mg/kg

Ground Water Sample: Yes

No ☒

(if yes, attach sample results)

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

DATE 11/29/95

SIGNATURE

Mike Tabet

PRINTED NAME
AND TITLE

Mike Tabet
Staff HES Coordinator

OFF (505) 325-8786



LAB: (505) 325-5667

TOTAL PETROLEUM HYDROCARBONS

Attn: *Cindy Gray*
Company: *On Site Technologies, Ltd.*
Address: *657 W. Maple*
City, State: *Farmington, NM 87401*

Date: *5/2/95*
COC No. *3011*
Sample No. *6103*
Job No. *2-1000*

Project Name: *Unocal Landfarms*
Project Location: *Rincon 151 - Spt. Composite*
Sampled by: *JL 184* Date: *4/26/95* Time: *11:23*
Analyzed by: *BV* Date: *4/28/95*
Type of Sample: *Soil*

Laboratory Analysis

Laboratory Identification	Sample Identification	Total Petroleum Hydrocarbons
<i>6103-3011</i>	<i>Unocal Landfarms Rincon 151 - Spt. Composite</i>	<i>561 mg/kg</i>

Method - EPA Method 418.1 Total Petroleum Hydrocarbons

Approved by: *[Signature]*
Date: *5/2/95*

OFF: (505) 325-8786



LAB: (505) 325-5667

Facsimile Cover Sheet

To: mike Tabet
Company: Unocal
Phone: (801) 686-2236
Fax: (801) 686-2341

From: Jon Little
Company: On Site Technologies, LTD.
Lab Fax: (505) 325-6256
Office Fax: (505) 327-1496

Date: 11/14/95
Pages including this
cover page: 3

Comments: These are the necessary test run on
57E and the 151. The analysis where 418.1.
PID reading were nondetect for both Landfills.
Please call if there are any questions.

Jon

ON SITE TECHNOLOGIES, LTD.

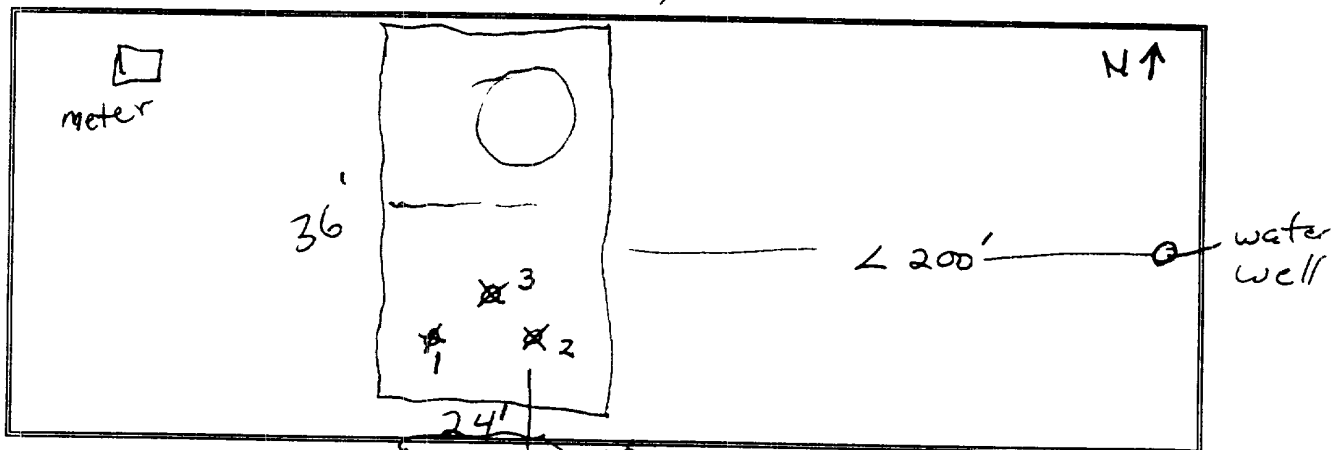
TEST HOLE LOG and FIELD TESTING RESULTS

PROJECT: Unocal Pits JOB # 4-1026 DATE: 3-14-94
 SITE LOCATION: Rincon 184 CLIENT: _____
 SAMPLER: John Little
 METHOD: Hand Auger & Power Auger
 TEST HOLE #: 1, 2, 3 LAB SAMPLE IDS 1210-1459

DEPTH	SOIL TYPE	P.I.D. FIELD SCREENING	TPH EPA 418.1	OTHER REMARKS
TH 1 3'	Sandy	+2000.00	N/A	
TH 2 3'	Sandy	1657.	N/A	
TH 3 3'	Sandy	2500	TPH :	
5'	Sandstone	2486	N/A	
				include tank berm for remediation

SITE SKETCH

WEATHER cool / Sunny APPROX. TEMP. 50°



(505) 325-8786

FAX (505) 327-1496

3005 NORTHRIDGE DRIVE, SUITE F P.O. BOX 2606 FARMINGTON, NEW MEXICO 87499

ON SITE TECHNOLOGIES, LTD.

TOTAL PETROLEUM HYDROCARBONS

Attn: *Cindy Gray*
Company: *On Site Technologies*
Address: *3005 Northridge Drive, Ste.F*
City, State: *Farmington, NM 87401*

Date: 3/24/94
Lab ID: 1459
Sample No.
Job No. 4-1076

Project Name: ***Unocal / 24 Pit Site Assessment***
 Project Location: ***Rincon***
 Sampled by: JL Date:
 Analyzed by: JL Date:
 Type of Sample: ***Soil***

Laboratory Analysis

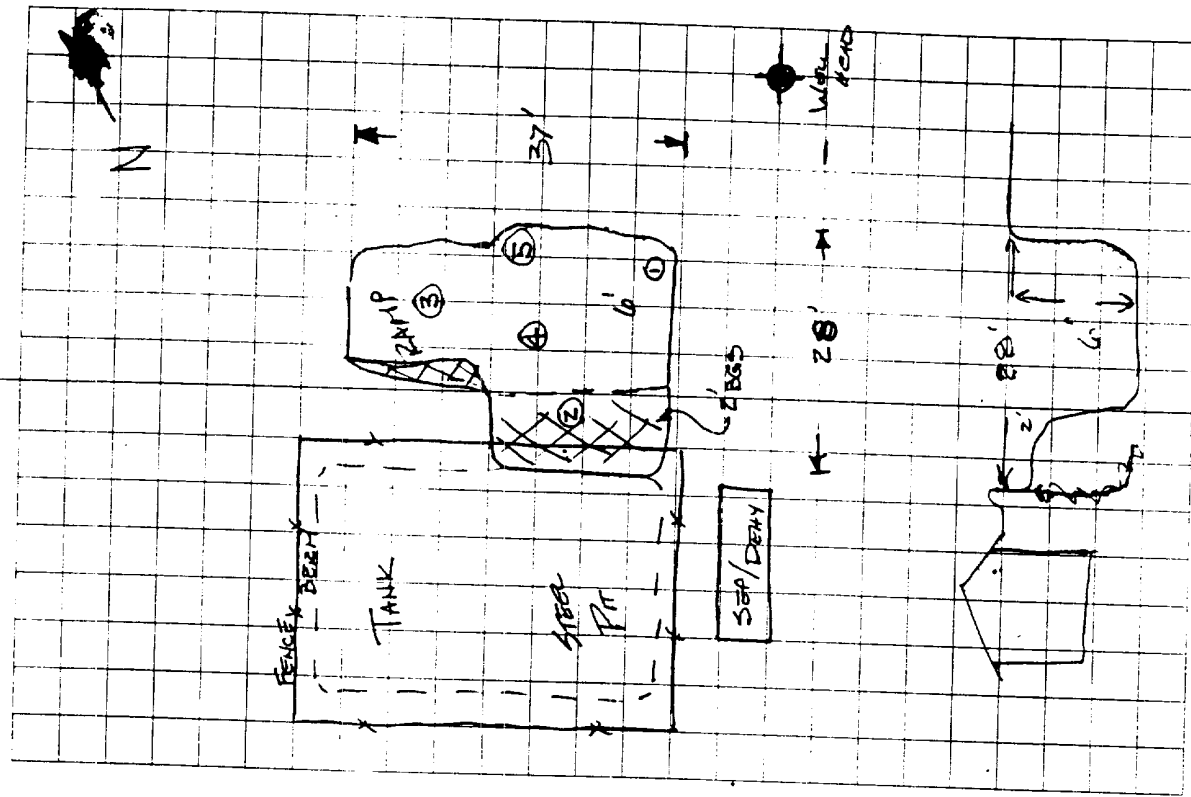
Laboratory Identification	Sample Identification	Total Petroleum Hydrocarbons
1209-1459	Unocal / 24 Pit Site Assessment Rincon 278 5-PPB	515 mg/kg
1210-1459	Unocal / 24 Pit Site Assessment Rincon 184	8510 mg/kg
1211-1459	Unocal / 24 Pit Site Assessment Rincon 78	21321 mg/kg
1212-1459	Unocal / 24 Pit Site Assessment Rincon 151 Tank Pit	7788 mg/kg
1213-1459	Unocal / 24 Pit Site Assessment Rincon 174M Tank Pit	60 mg/kg
1214-1459	Unocal / 24 Pit Site Assessment Rincon 174M Dehydrator Pit 10 mg/kg DAP 5-1002	98 mg/kg
1215-1459	Unocal / 24 Pit Site Assessment Rincon 134 Tank Pit	31324 mg/kg
1216-1459	Unocal / 24 Pit Site Assessment Rincon 57E Gallup Dehydrator Pit	1519 mg/kg
1217-1459	Unocal / 24 Pit Site Assessment Rincon 57E Dakota 100 mg/kg 100 mg/kg	127 mg/kg
1218-1459	Unocal / 24 Pit Site Assessment Rincon 57E Tank Pit	1726 mg/kg
1219-1459	Unocal / 24 Pit Site Assessment Rincon 300	3843 mg/kg

Method - EPA Method 418.1 Total Petroleum Hydrocarbons

Approved by: 
Date: 3/24/94

526' 2194

ДЕНЬ/ТК	ПТ
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ON SITE TECHNOLOGIES, LTD.

TOTAL PETROLEUM HYDROCARBONS

Attn: *Cindy Gray*
Company: *On Site Technologies, Ltd.*
Address: *657 W. Maple*
City, State: *Farmington, NM 87401*

Date: *8/13/94*
Lab ID: *1764*
Sample No. *2413*
Job No. *4-1111*

Project Name: *Unocal Corporation / Pit Remediations*
Project Location: *Rincon 184 Dehy./Tk. Pit Composite @ Btm.*
Sampled by: *MKL* Date: *8/9/94* Time: *10:00*
Analyzed by: *DA* Date: *8/12/94*
Type of Sample: *Soil*

Laboratory Analysis

Laboratory Identification	Sample Identification	Total Petroleum Hydrocarbons
2413-1764	<i>Unocal Corporation / Pit Remediations</i> <i>Rincon 184 Dehy./Tk. Pit Composite @ Btm.</i>	1,800 mg/kg

Method - EPA Method 418.1 Total Petroleum Hydrocarbons

Approved by:

Date:

Ja GX
8/15/94



AROMATIC VOLATILE ORGANICS

Attn: *Cindy Gray*
Company: *On Site Technologies, Ltd.*
Address: *657 W. Maple*
City, State: *Farmington, NM 87401*

Date: *8/10/94*
Lab ID: *1764*
Sample ID: *2413*
Job No. *4-1111*

Project Name: *Unocal Corporation / Pit Remediations*
Project Location: *Rincon 184 Dehy./Tk. Pit Composite @ Btm.*
Sampled by: *MKL* Date: *8/9/94*
Analyzed by: *DLA* Date: *8/10/94*
Sample Matrix: *Soil*

Time: *10:00*

Aromatic Volatile Organics

Component	**Measured Concentration ug/kg
<i>Benzene</i>	<i>353</i>
<i>Toluene</i>	<i>6,606</i>
<i>Ethylbenzene</i>	<i>1,316</i>
<i>m,p-Xylene</i>	<i>20,801</i>
<i>o-Xylene</i>	<i>5,791</i>
	TOTAL <i>34,868 ug/kg</i>

ND - Not Detectable

*** - Method Detection Limit, 2 ug/kg*

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

Approved by: *[Signature]*

Date: *8/15/94*



QUALITY ASSURANCE REPORT
for EPA Method 8020

Date Analyzed: 8/10/94

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	18	8	15%
Ethylbenzene	ppb	20	19	6	15%
m,p-Xylene	ppb	40	36	11	15%
o-Xylene	ppb	20	18	12	15%

Spike Results

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	102	(32-160)	3	20%
m,p-Xylene	102	97	(35-145)	3	20%
o-Xylene	101	100	(35-145)	0	20%

Surrogate Recoveries

Laboratory Identification	S1 Percent Recovered	S2 Percent Recovered	S3 Percent Recovered
Limits	(70-130)		
2413-1764	104		

S1: Fluorobenzene

CHAIN OF CUS. JDY RECORD

657 W. Maple • P. O. Box 2606 • Farmington, NM 87499
LAB: (505) 325-5667 • FAX: (505) 325-6256

Date:

Page

of _____

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