

**JICARILLA APACHE TRIBE  
ENVIRONMENTAL PROTECTION OFFICE  
P.O. BOX 507  
DULCE, NEW MEXICO 87528**

SUBMIT 1 COPY TO  
NATURAL RESOURCE DEPT  
AND OIL & GAS ADMINISTRATION

OK

**PIT REMEDIATION AND CLOSURE REPORT**

<b>Operator:</b> <u>BILLCO ENERGY</u>		<b>Telephone:</b> <u>(505) 325-3404</u>
<b>Address:</b> <u>P.O. Box 3038, FARMINGTON, NM 87499</u>		
<b>Facility or Well Name:</b> <u>JICARILLA APACHE No. 9</u>		
<b>Location:</b> Unit or Qtr/Qtr Sec <u>NE 1/4 NE 1/4</u> Sec <u>15</u> T <u>23N</u> R <u>4W</u> County <u>RIO ARriba</u>		
<b>Pit Type:</b> Separator <input type="checkbox"/> Dehydrator <input type="checkbox"/> Other <u>BLOW</u>		
<b>Land Type:</b> <u>RANGE</u>		
<b>Pit Location:</b> (Attach diagram)		
Pit dimensions: length <u>15</u> , width <u>18</u> , depth <u>11</u>		
Reference: wellhead <u>X</u> , other _____		
Footage from reference: <u>36</u>		
Direction from reference: <u>29</u> Degrees <input type="checkbox"/> East of North <input type="checkbox"/> <input checked="" type="checkbox"/> West of South <input checked="" type="checkbox"/>		
<b>Depth To Groundwater:</b> (Vertical distance from contaminants to seasonal high water elevation of groundwater)	Less than 50 feet 50 feet to 99 feet Greater than 100 feet	(20 points) (10 points) ( 0 points) <u>0</u>
<b>Distance to an Ephemeral Stream</b> (Downgradient dry wash greater than ten feet in width)	Less than 100 feet Greater than 100 feet	(10 points) ( 0 points) <u>0</u>
<b>Distance to Nearest Lake, Playa, or Watering Pond</b> (Downgradient lakes, playas and livestock or wildlife watering ponds)	Less than 100 feet Greater than 100 feet	(10 points) ( 0 points) <u>0</u>
<b>Wellhead Protection Area:</b> (Less than 200 feet from a private domestic water source, or: less than 1000 feet from all other water sources)	Yes No	(20 points) ( 0 points) <u>0</u>
<b>Distance To Surface Water:</b> (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	Less than 100 feet 100 feet to 1000 feet Greater than 1000 feet	(20 points) (10 points) ( 0 points) <u>0</u>
<b>RANKING SCORE (TOTAL POINTS):</b>		<u>0</u>

Date Remediation Started: 11-20-98 Date Completed: 11-23-98

Remediation Method: Excavation X Approx. cubic yards \_\_\_\_\_  
(Check all appropriate sections) Landfarmed \_\_\_\_\_ Insitu Bioremediation \_\_\_\_\_  
Other STOCKPILE

Remediation Location: Onsite X Offsite \_\_\_\_\_  
(i.e. landfarmed onsite,  
name and location of  
offsite facility)

General Description of Remedial Action: Excavation

Groundwater Encountered: No X Yes \_\_\_\_\_ Depth \_\_\_\_\_

Final Pit: Sample location see Attached Documents  
Closure Sampling:  
(if multiple samples,  
attach sample results  
and diagram of sample  
locations and depths)

Sample depth 11'

Sample date 11-24-98 Sample time 1155

Sample Results

Soil: Benzene	(ppm)	<u>—</u>	Water: Benzene	(ppb)	<u>—</u>
Total BTEX	(ppm)	<u>—</u>	Toluene	(ppb)	<u>—</u>
Field Headspace	(ppm)	<u>71.9</u>	Ethylbenzene	(ppb)	<u>—</u>
TPH	(ppm)	<u>ND</u>	Total Xylenes	(ppb)	<u>—</u>

Groundwater Sample: Yes \_\_\_\_\_ No X (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 12-17-98 PRINTED NAME JEFFREY C. BLAGG

SIGNATURE Jeffrey C. Blagg AND TITLE NMPE 11607

AFTER REVIEW OF THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.

APPROVED: YES X NO \_\_\_\_\_ (REASON) \_\_\_\_\_

SIGNED: Kent C. Mank DATE: 12-28-98

CLIENT: <u>BILCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: _____ C.O.C. NO: <u>6407</u>
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FIELD REPORT: CLOSURE VERIFICATION	PAGE No: <u>1</u> of <u>1</u>
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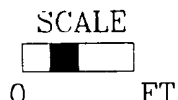
LOCATION: NAME: <u>JIC. APACHE</u>	WELL #: <u>9</u>	PIT: <u>BLW</u>	DATE STARTED: <u>11-20-98</u>
QUAD/UNIT: <u>A SEC: 15</u>	TWP: <u>23N</u>	RNG: <u>4W</u>	PM: <u>NM</u> CNTY: <u>RA</u> ST: <u>NM</u>
QTR/FOOTAGE: <u>NE/4 NE/4</u>			CONTRACTOR: <u>INLAND</u>
			ENVIRONMENTAL SPECIALIST: <u>JCB</u>

EXCAVATION APPROX. <u>15</u> FT. x <u>18</u> FT. x <u>11</u> FT. DEEP.	CUBIC YARDAGE: <u>110</u>
DISPOSAL FACILITY: <u>ONSITE</u>	REMEDATION METHOD: <u>STOCKPILE</u>
LAND USE: <u>RANGE</u>	LEASE: <u>JIC CNT 398</u> FORMATION: <u>PC</u>

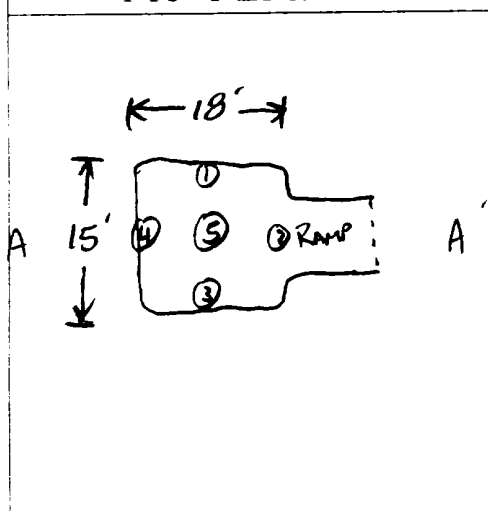
FIELD NOTES & REMARKS:	PIT LOCATED APPROXIMATELY <u>36</u> FT. <u>S 29°W</u> FROM WELLHEAD.		
DEPTH TO GROUNDWATER: <u>&gt;100</u>	NEAREST WATER SOURCE: <u>&gt;1000</u>	NEAREST SURFACE WATER: <u>&gt;1000</u>	
NMOCD BANKING SCORE: <u>0</u>	NMOCD TPH CLOSURE STD: <u>5,000</u> PPM	CHECK ONE:	
SOIL AND EXCAVATION DESCRIPTION:		<input checked="" type="checkbox"/> PIT ABANDONED <input type="checkbox"/> STEEL TANK INSTALLED <input type="checkbox"/> FIBERGLASS TANK INSTALLED	

SILTY CLAYEY SAND, Yellow Orange, Dry, Non Cohesive.  
 No odor or stain of HC.

FIELD 413.1 CALCULATIONS							
TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm



PIT PERIMETER



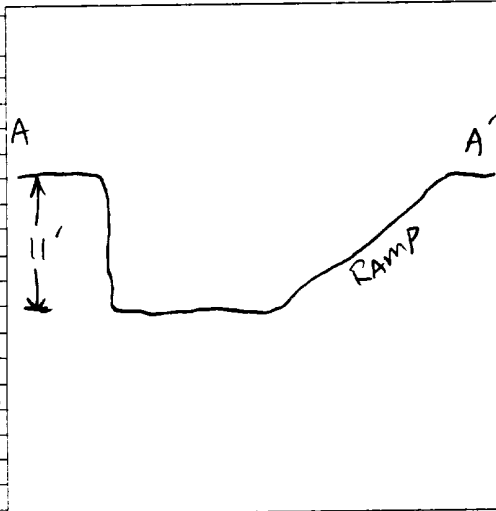
OVN RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
1N@9'	ND
2E@10'	ND
3S@9'	ND
4W@9'	ND
5C@11'	71.9

LAB SAMPLES		
SAMPLE ID	ANALYSIS	TIME
C@11'	8015	1155

PIT PROFILE



TRAVEL NOTES:	CALLOUT: _____	ONSITE: _____
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# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

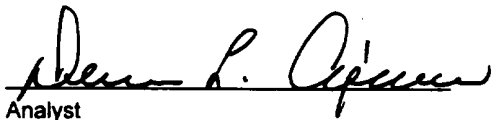
Client:	Blagg / Bilco	Project #:	04034-10
Sample ID:	C @ 11', Blow Pit	Date Reported:	11-25-98
Laboratory Number:	E216	Date Sampled:	11-24-98
Chain of Custody No:	6407	Date Received:	11-24-98
Sample Matrix:	Soil	Date Extracted:	11-25-98
Preservative:	Cool	Date Analyzed:	11-25-98
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

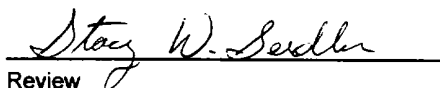
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Jicarilla Apache #9.

  
Analyst

  
Review

6407

[illegible]

JICARILLA APACHE TRIBE  
ENVIRONMENTAL PROTECTION OFFICE  
P.O. BOX 507  
DULCE, NEW MEXICO 87528

COC# 7092  
SUBMIT 1 COPY TO

NATURAL RESOURCE DEPT  
AND OIL & GAS ADMINISTRATION

ON-SITE SOIL REMEDIATION REPORT

Operator: <u>BILCO ENERGY</u> Telephone: <u>(505) 325-3404</u>	
Address: <u>PO BOX 3038, FARMINGTON, NM. 87499</u>	
Facility or Well Name: <u>JICARILLA APACHE #9</u>	
Location: Unit or Qtr/Qtr Sec <u>A</u> Sec <u>15</u> T <u>23N</u> R <u>4W</u> County <u>BLAQUIRA</u>	
Land Type: <u>RANGE</u>	
Date Remediation Started: <u>11-20-98</u> Date Completed: <u>7-29-99</u>	
Remediation Method: Landfarmed <input checked="" type="checkbox"/> Approx. cubic yards <u>110</u>	
Composted <input type="checkbox"/>	
Other <input type="checkbox"/>	
Depth To Groundwater: (pts.) <u>0</u>	<b>Final Closure Sampling:</b> Sampling Date: <u>7-27-99</u> Time: <u>0830</u> Sample Results: Field Headspace (ppm) <u>0.0</u> TPH (ppm) <u>11.8</u> Method <u>TPH (80.5)</u> Other <input type="checkbox"/>
Distance to an Ephemeral Stream (pts.) <u>0</u>	
Distance to Nearest Lake, Playa, or Watering Pond (pts.) <u>0</u>	
Wellhead Protection Area: (pts.) <u>0</u>	
Distance To Surface Water: (pts.) <u>0</u>	
RANKING SCORE (TOTAL POINTS): <u>0</u>	
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF	
DATE <u>9-24-99</u> PRINTED NAME <u>JEFFREY C. BLAGG</u>	
SIGNATURE <u>Jeffrey C. Blagg</u> AND TITLE <u>NMPE 11607</u>	
AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SITE REMEDIATION IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.	
APPROVED: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> (REASON) _____	
SIGNED: <u>Jeffrey C. Blagg</u> DATE: <u>9-27-99</u>	

CLIENT: <u>BILCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: _____ C.D.C. NO: <u>7092</u>
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# FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: <u>NAME: CARILLA APACHE</u> WELL #: <u>9</u> PITS: <u>BLOW</u>	DATE STARTED: <u>7-27-99</u> DATE FINISHED: <u>7-29-99</u>
QUAD/UNIT: <u>A</u> SEC: <u>15</u> TWP: <u>23N</u> RNG: <u>4W</u> PM: <u>NM</u> CNTY: <u>RA</u> ST: <u>NM</u>	ENVIRONMENTAL SPECIALIST: <u>REP</u>
QTR/FOOTAGE: <u>790'N 790'E</u> CONTRACTOR: <u>INLAND</u>	

## SOIL REMEDIATION:

REMEDICATION SYSTEM: LANDFARM APPROX. CUBIC YARDAGE: 110  
LAND USE: RANGE LIFT DEPTH (ft): 1'

## FIELD NOTES & REMARKS:

DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'

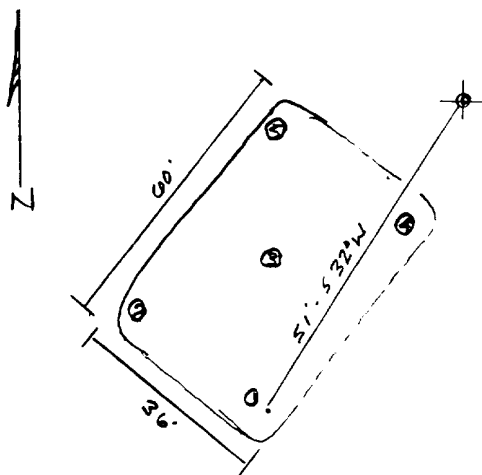
NMOC RANKING SCORE: 0 NMOC TPH CLOSURE STD: 5000 PPM

MODERATE YELLOWISH BROWN SAND, NON COHESIVE, SLIGHTLY MOIST, FIRM.  
NO APPARENT STAINING, NO HL ODOR DETECTED. SAMPLING DEPTHS  
RANGE FROM 6"-10" COLLECTED A 5PT. COMPOSITE SAMPLE FOR  
LAB ANALYSIS.

## FIELD 418.1 CALCULATIONS

SAMP. TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm

## SKETCH/SAMPLE LOCATIONS



## OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
LF-1	0.0

## LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME	RESULTS
LF-1	TPH (8015)	0830	11.8

## SCALE



TRAVEL NOTES: CALLOUT: NA ONSITE: 7-27-99

# ENVIROTECH LABS

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## EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

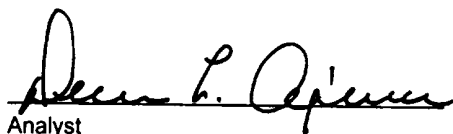
Client:	Blagg / Billco	Project #:	403410
Sample ID:	LF - 1	Date Reported:	07-29-99
Laboratory Number:	F766	Date Sampled:	07-27-99
Chain of Custody No:	7092	Date Received:	07-28-99
Sample Matrix:	Soil	Date Extracted:	07-28-99
Preservative:	Cool	Date Analyzed:	07-28-99
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	2.2	0.2
Diesel Range (C10 - C28)	9.6	0.1
Total Petroleum Hydrocarbons	11.8	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Jicarilla Apache #9 5 Pt. Composite.

  
Analyst

  
Review



7092

**ENVIROTECH INC.**

5796 U.S. Highway 64  
Farmington, New Mexico 87401  
(505) 632-0615