

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

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

**PIT REMEDIATION AND CLOSURE REPORT**

Operator: BILLCO ENERGY Telephone: (505) 325-3404  
Address: P.O. Box 3038, FARMINGTON, NM 87499  
Facility or Well Name: M+M No. 2  
Location: Unit or Qtr/Qtr Sec N Sec 6 T 23N R 4W County RIO ARriba  
Pit Type: Separator ☐ Dehydrator ☒ Other AND BLOW  
Land Type: RANGE

Pit Location: Pit dimensions: length 24, width 18, depth 9  
(Attach diagram) Reference: wellhead ☒, other \_\_\_\_\_  
Footage from reference: 57  
Direction from reference: 32 Degrees ☐ East of North ☒  
☒ West of South ☐

**Depth To Groundwater:**

(Vertical distance from  
contaminants to seasonal  
high water elevation of  
groundwater)

Less than 50 feet	(20 points)	
50 feet to 99 feet	(10 points)	
Greater than 100 feet	(0 points)	<u>0</u>

**Distance to an Ephemeral Stream**

(Downgradient dry wash greater than  
ten feet in width)

Less than 100 feet	(10 points)	
Greater than 100 feet	(0 points)	<u>0</u>

**Distance to Nearest Lake, Playa, or Watering Pond**

(Downgradient lakes, playas and  
livestock or wildlife watering ponds)

Less than 100 feet	(10 points)	
Greater than 100 feet	(0 points)	<u>0</u>

**Wellhead Protection Area:**

(Less than 200 feet from a private  
domestic water source, or: less than  
1000 feet from all other water sources)

Yes	(20 points)	
No	(0 points)	<u>0</u>

**Distance To Surface Water:**

(Horizontal distance to perennial  
lakes, ponds, rivers, streams, creeks,  
irrigation canals and ditches)

Less than 100 feet	(20 points)	
100 feet to 1000 feet	(10 points)	
Greater than 1000 feet	(0 points)	<u>0</u>

**RANKING SCORE (TOTAL POINTS):** 0

Date Remediation Started: 11-19-98 Date Completed: 11-20-98

Remediation Method: Excavation X  
(Check all appropriate sections) Landfarmed       

Approx. cubic yards 144

Insitu Bioremediation       

Other STACKPILE

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

Sample location see Attached Documents

Sample depth 9'

Sample date 12-11-20-98 Sample time 0948

Sample Results

Soil: Benzene (ppm) —

Water: Benzene (ppb) —

Total BTEX (ppm) —

Toluene (ppb) —

Field Headspace (ppm) 19

Ethylbenzene (ppb) —

TPH (ppm) 936

Total Xylenes (ppb) —

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. Marshall DATE: 12-28-98

CLIENT: <u>BLUCCO ENERGY</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: _____ C.O.C. NO: <u>6410</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>M+M</u>	WELL #: <u>2</u>	PIT: <u>BLOW/DEHIC</u>
QUAD/UNIT: <u>N</u> SEC: <u>6</u> TWP: <u>23N</u> RNG: <u>4W</u> PM: <u>NM</u> CNTY: <u>RA</u> ST: <u>NM</u>		
DTR/FOOTAGE: <u>1000 FSL x 970 FWL</u> CONTRACTOR: <u>INLAND</u>		
ENVIRONMENTAL SPECIALIST: <u>JCB</u>		

EXCAVATION APPROX <u>24</u> FT. x <u>18</u> FT. x <u>9</u> FT. DEEP.	CUBIC YARDAGE: <u>144</u>
DISPOSAL FACILITY: <u>ON SITE</u> REMEDIATION METHOD: <u>STOCKPILE</u>	
LAND USE: <u>RANGE</u> LEASE: <u>JICARILLA 362</u> FORMATION: <u>PC</u>	

FIELD NOTES & REMARKS:	PIT LOCATED APPROXIMATELY <u>57</u> FT. <u>N32°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>
NMOCB PANKING SCORE: <u>0</u>	NMOCB TPH CLOSURE STD: <u>5,000</u> PPM
SOIL AND EXCAVATION DESCRIPTION:	

CHECK ONE:	
<input checked="" type="checkbox"/>	PIT ABANDONED
<input type="checkbox"/>	STEEL TANK INSTALLED
<input type="checkbox"/>	FIBERGLASS TANK INSTALLED

YELLOW ORANGE SILTY SAND, DRY TO MOIST, NON COHESIVE.

NO HC STAIN ON ANY SAMPLES, MINOR HC ODOR ON (3), (4) + (5).

#### FIELD 418.1 CALCULATIONS

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

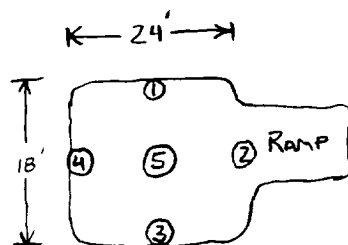
#### SCALE



0 FT



#### PIT PERIMETER



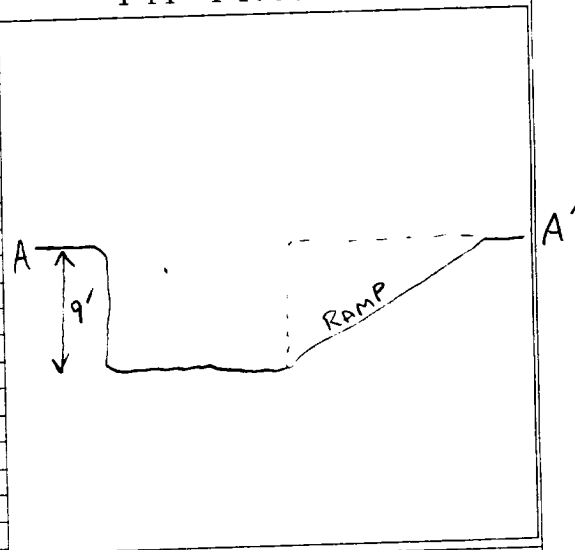
#### OVN RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 NCB'	2.9
2 E@9	ND
3 S@B'	4.8
4 W@B'	8.5
5 C@9	19.0

#### LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME
C@9'	8015	0948

#### 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  
Sample ID: Blow / Dehy C @ 9'  
Laboratory Number: E219  
Chain of Custody No: 6410  
Sample Matrix: Soil  
Preservative: Cool  
Condition: Cool and Intact


Project #: 04034-10  
Date Reported: 11-25-98  
Date Sampled: 11-24-98  
Date Received: 11-24-98  
Date Extracted: 11-25-98  
Date Analyzed: 11-25-98  
Analysis Requested: 8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	936	0.1
Total Petroleum Hydrocarbons	936	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: M & M #2.

  
Analyst

  
Review

## 6410

# ENVIROTECH INC.

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

COCA 7091  
SUBMIT 1 COPY TO  
NATURAL RESOURCE DEPT  
AND OIL & GAS ADMINISTRATION  
OCT 1 8 1999

OIL CON. DIV.  
DIAL 8  
ON-SITE SOIL REMEDIATION REPORT

Operator: <u>BILLCO ENERGY</u>		Telephone: <u>325-3404</u>
Address: <u>P.O. BOX 3038, FARMINGTON, NM. 87499</u>		
Facility or Well Name: <u>H&amp;M #2</u>		
Location: Unit or Qtr/Qtr Sec <u>N</u> Sec <u>6</u> T <u>23N</u> R <u>4W</u> County <u>BLAQUIRA</u>		
Land Type: <u>RANGE</u>		
Date Remediation Started: <u>11-19-98</u>		Date Completed: <u>7-29-99</u>
Remediation Method: Landfarmed <input checked="" type="checkbox"/>		Approx. cubic yards <u>144</u>
Composted <input type="checkbox"/>		
Other <input type="checkbox"/>		
Depth To Groundwater: (pts.) <u>0</u>	Final Closure Sampling:	
Distance to an Ephemeral Stream (pts.) <u>0</u>	Sampling Date: <u>7-27-99</u> Time: <u>0700</u>	
Distance to Nearest Lake, Playa, or Watering Pond (pts.) <u>0</u>	Sample Results:	
Wellhead Protection Area: (pts.) <u>0</u>	Field Headspace (ppm) <u>0.0</u>	
Distance To Surface Water: (pts.) <u>0</u>	TPH (ppm) <u>15.2</u> Method <u>TPH (8015)</u>	
RANKING SCORE (TOTAL POINTS): <u>0</u>		Other <input type="checkbox"/>
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. BLAUGG</u>	
SIGNATURE <u>Jeffrey C. Blaugg</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>Keith M. [Signature]</u>		DATE: <u>9-27-99</u>

CLIENT: <u>BILCO</u>	<b>BLAGG ENGINEERING, INC.</b> P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: _____ C.D.C. NO: <u>7091</u>
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<b>FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION</b>				
LOCATION: NAME: <u>M+M</u>	WELL #: <u>2</u>	PITS: <u>DEHY, BLOW</u>	DATE STARTED: <u>7.27.99</u>	DATE FINISHED: <u>7.29.99</u>
QUAD/UNIT: <u>N</u> SEC: <u>6</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>1000'S 970'W</u> CONTRACTOR: <u>INLAND</u>				

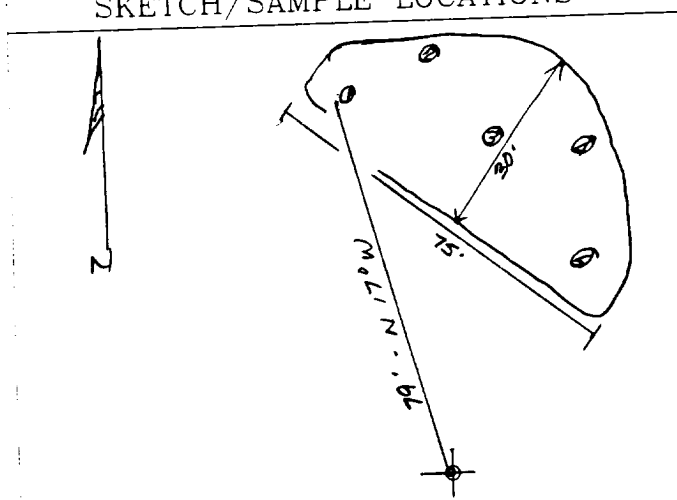
SOIL REMEDIATION:	
REMEDIATION SYSTEM: <u>LANDFARM</u>	APPROX. CUBIC YARDAGE: <u>144</u>
LAND USE: <u>RANGE</u>	LIFT DEPTH (ft): <u>1'</u>

FIELD NOTES & REMARKS:	
DEPTH TO GROUNDWATER: <u>7100'</u> NEAREST WATER SOURCE: <u>&gt;1000'</u> NEAREST SURFACE WATER: <u>&gt;1000'</u> NMDCD BANKING SCORE: <u>0</u> NMDCD TPH CLOSURE STD: <u>5000</u> PPM MODERATE YELLOWISH BROWN SAND, NON COHESIVE SLIGHTLY MOIST, FIRM. NO APPARENT STAINING, NO HC ODOR DETECTED. SAMPLING DEPTHS RANGE FROM 6" - 10". COLLECTED A SPT. COMPOSITE SAMPLE FOR LAB ANALYSIS	

FIELD 418.1 CALCULATIONS

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

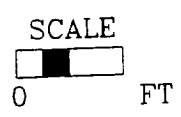
SKETCH/SAMPLE LOCATIONS



OVM RESULTS

LAB SAMPLES

SAMPLE ID	FIELD HEADSPACE PID (ppm)	SAMPLE ID	ANALYSIS	TIME	RESULTS
LF-1	0.0	LF-1	TPH (8015)	0700	15.2



TRAVEL NOTES:	CALLOUT: <u>NA</u>	ONSITE: <u>7.27.99</u>
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EPA METHOD 8015 Modified  
Nonhalogenated Volatile Organics  
Total Petroleum Hydrocarbons

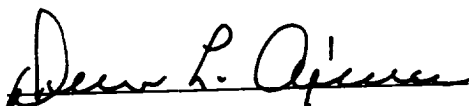
Client:	Blagg / Billco	Project #:	403410
Sample ID:	LF - 1	Date Reported:	07-29-99
Laboratory Number:	F765	Date Sampled:	07-27-99
Chain of Custody No:	7091	Date Received:	07-28-99
Sample Matrix:	Soil	Date Extracted:	07-28-99
Preservative:	Cool	Date Analyzed:	07-28-99
Condition:	Cool and Intact	Analysis Requested:	8015 TPH


Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	3.3	0.2
Diesel Range (C10 - C28)	11.9	0.1
Total Petroleum Hydrocarbons	15.2	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: **M & M #2 5 Pt. Composite.**

  
Analyst

  
Review



## 7091

**ENVIROTECH INC.**

5796 U.S. Highway 64  
Farmington, New Mexico 87401

**(505) 632-0615**

Sample Receipt			
	Y	N	N/A
Received Intact	✓		