

DEPUTY OIL & GAS INSPECTOR

AUG 24 1999

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

CA 604

SUBMIT 1 COPY TO

NATURAL RESOURCE DEPT

AND OIL & GAS ADMINISTRATION

PIT REMEDIATION AND CLOSURE REPORT

Operator: CONOCO, INC. **Telephone:** (505) 324-5884

Address: 3315 Bloomfield Hwy., Farmington, NM 87401

Facility or Well Name: INDIANA A #11

Location: Unit or Qtr/Qtr Sec J Sec 14 T 36N R 4W County RIO ARZIBA

Pit Type: Separator X Dehydrator Other PRODUCTION TANK

Land Type: RANGE

Pit Location: Pit dimensions: length 20', width 37', depth 5'
(Attach diagram)

Reference: wellhead X, other _____

Footage from reference: 132'

Direction from reference: 20 Degrees X East of North X
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)

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)

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)

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)

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)

RANKING SCORE (TOTAL POINTS): 5

Date Remediation Started: _____ Date Completed: 8/14/98

Remediation Method: Excavation ☒ Approx. cubic yards 200
 (check all appropriate sections) Landfarmed ☒ Insitu Bioremediation _____
 Other _____

Remediation Location: Onsite ☒ Offsite _____
 (i.e. landfarmed onsite, name and location of offsite facility)

General Description of Remedial Action: Excavation. VERY HARD CLAY BOTTOM.

Groundwater Encountered: No ☒ Yes _____ Depth _____

Final Pit: Sample location see Attached Documents TPH & BTEX RESULTS
 Closure Sampling: FROM 4 FT. COMPOSITE OF SIDEWALLS
 (if multiple samples, attach sample results and diagram of sample locations and depths)

Sample depth 4' (WEST SIDEWALL - OUR RESULTS ONLY)

Sample date 8/13/98 Sample time 0945

Sample Results

Soil: Benzene	(ppm)	<u>0.177</u>	Water: Benzene	(ppb)	_____
Total BTEX	(ppm)	<u>7.970</u>	Toluene	(ppb)	_____
Field Headspace	(ppm)	<u>814</u>	Ethylbenzene	(ppb)	_____
TPH	(ppm)	<u>15.1</u>	Total Xylenes	(ppb)	_____

Groundwater 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 8/14/98 PRINTED NAME Jeffrey C. Blagg, P.E. #11607
 SIGNATURE Jeffrey C. Blagg AND TITLE President

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

APPROVED: YES ☒ NO _____ (REASON) _____

SIGNED: Kenn C. M... DATE: 9-9-98

3003920122

CLIENT: <u>CONOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>CA604</u> C.O.C. NO: <u>6119</u>
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FIELD REPORT: CLOSURE VERIFICATION		PAGE No: <u>1</u> of <u>1</u>
LOCATION: NAME: <u>JICARILLA</u> A WELL #: <u>11</u> PIT: <u>SEP/PROD</u>		DATE STARTED: <u>8/13/98</u>
QUAD/UNIT: <u>J</u> SEC: <u>14</u> TWP: <u>26N</u> RNG: <u>4W</u> PM: <u>NM</u> CNTY: <u>RA</u> ST: <u>NM</u>		DATE FINISHED: _____
QTR/FOOTAGE: <u>1550' FSL</u> <u>1650' FEL</u> CONTRACTOR: <u>JVC</u>		ENVIRONMENTAL SPECIALIST: <u>NV</u>

EXCAVATION APPROX. <u>20</u> FT. x <u>37</u> FT. x <u>8</u> FT. DEEP.	CUBIC YARDAGE: <u>200</u>
DISPOSAL FACILITY: <u>ON-SITE</u>	REMEDIATION METHOD: <u>LANDFILL</u>
LAND USE: <u>RANGE</u>	LEASE: <u>CONTRACT #105</u> FORMATION: <u>MV/DR/GP</u>

FIELD NOTES & REMARKS:	PIT LOCATED APPROXIMATELY <u>132</u> FT. <u>N20E</u> FROM WELLHEAD.
DEPTH TO GROUNDWATER: <u>>100'</u>	NEAREST WATER SOURCE: <u>>1000'</u> NEAREST SURFACE WATER: <u>>1000'</u>
NMOC D RANKING SCORE: <u>0</u>	NMOC D TPH CLOSURE STD: <u>5000</u> PPM
SOIL AND EXCAVATION DESCRIPTION:	

CHECK ONE:

☒ PIT ABANDONED

☐ STEEL TANK INSTALLED

☐ FIBERGLASS TANK INSTALLED

MOSTLY OR. YELL. BROWN TO DUSKY RED CLAY SLIGHTLY PLASTIC TO HIGHLY PLASTIC, FIRM TO VERY STIFF, NO APPARENT STAINING OR HC DDOR OBSERVED DETECTED W/IN EXCAVATION, STRONG HC DDOR DETECTED W/IN SOUTH + WEST SIDEWALL OVM SAMPLES, COLLECTED 4 PT. COMPOSITE SAMPLE FROM SIDEWALL SAMPLING PTS. FOR LAB ANALYSIS PIT BOTTOM CONSISTED OF VERY STIFF CLAY w/ SLIGHT HC DDOR DETECTED W/IN OVM SAMPLE.

CLOSED

SCALE

0 FT

FIELD 4181 CALCULATIONS

TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
0945							

OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 @ 4'	0.0
2 @ 5'	175
3 @ 5'	334
4 @ 4'	814
5 @ 10'	55.2

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME
3W-C	TPH/BTEX	0945
5 @ 10'	TPH	"
ALL PASSED		

PIT PROFILE

PIT PERIMETER

TO WELL HEAD

↓

TRAVEL NOTES: CALLOUT: 8/12/98 - AFTER. ONSITE: 8/13/98 - MORN.

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

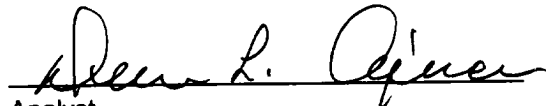
Client:	Blagg / CONOCO	Project #:	04034-10
Sample ID:	SW - C	Date Reported:	08-14-98
Laboratory Number:	D801	Date Sampled:	08-13-98
Chain of Custody No:	6119	Date Received:	08-14-98
Sample Matrix:	Soil	Date Extracted:	08-14-98
Preservative:	Cool	Date Analyzed:	08-14-98
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

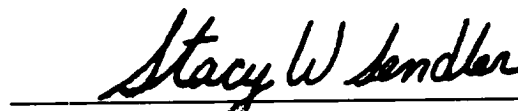
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	13.6	0.2
Diesel Range (C10 - C28)	1.5	0.1
Total Petroleum Hydrocarbons	15.1	0.2

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 A #11 Separator / Production Tank Pit. 4 Pt. Composite.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

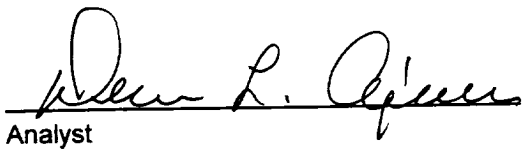
Client:	Blagg / CONOCO	Project #:	04034-10
Sample ID:	5 @ 10'	Date Reported:	08-14-98
Laboratory Number:	D802	Date Sampled:	08-13-98
Chain of Custody No:	6119	Date Received:	08-14-98
Sample Matrix:	Soil	Date Extracted:	08-14-98
Preservative:	Cool	Date Analyzed:	08-14-98
Condition:	Cool and Intact	Analysis 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 A #11 Separator / Production Tank Pit.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / CONOCO	Project #:	04034-10
Sample ID:	SW - C	Date Reported:	08-14-98
Laboratory Number:	D801	Date Sampled:	08-13-98
Chain of Custody:	6119	Date Received:	08-14-98
Sample Matrix:	Soil	Date Analyzed:	08-14-98
Preservative:	Cool	Date Extracted:	08-14-98
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	177	8.8
Toluene	242	8.4
Ethylbenzene	172	7.6
p,m-Xylene	5,520	10.8
o-Xylene	1,860	5.2
Total BTEX	7,970	

ND - Parameter not detected at the stated detection limit.

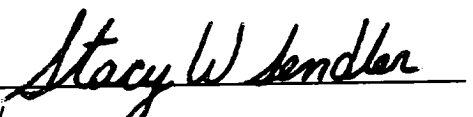
Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	95 %
	Bromofluorobenzene	95 %

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 A #11 Separator / Production Tank Pit. 4 Pt. Composite.


Analyst


Review

6119

ENVIROTECH INC.

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

CA604

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

ON-SITE SOIL REMEDIATION REPORT

Operator: Conoco, Inc. Telephone: (505) 324-5884
Address: 3315 Bloomfield Hwy., Farmington, NM 87401
Facility or Well Name: JICARILLA A #11
Location: Unit or Qtr/Qtr Sec J Sec 14 T 26N R 4W County RIO ARRIBA
Land Type: RANGE

Date Remediation Started: 8/13/98 Date Completed: 4/15/99
Remediation Method: Landfarmed ☒ Approx. cubic yards 200
Composted ☐
Other ☐

Depth To Groundwater: (pts.) 0
Distance to an Ephemeral Stream (pts.) 0
Distance to Nearest Lake, Playa, or Watering Pond (pts.) 0
Wellhead Protection Area: (pts.) 0
Distance To Surface Water: (pts.) 0
RANKING SCORE (TOTAL POINTS): 0

Final Closure Sampling:
Sampling Date: 4/14/99 Time: 1200
Sample Results:
Field Headspace (ppm) 262
TPH (ppm) 950 Method 8015
Other BENZENE - 0.0397 ppm
TOTAL BTEX - 4.990 ppm

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

DATE 4/15/99 PRINTED NAME Jeffrey C. Blagg, P.E. #11607
SIGNATURE Jeffrey C. Blagg AND TITLE President

AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SITE REMEDIATION IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.

APPROVED: YES ☒ NO ☐ (REASON) _____

SIGNED: K-C M... DATE: 6-3-99

CLIENT: <u>CONOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>CA604</u> COC. NO: <u>6648</u>
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FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: NAME: <u>JICARUA</u> A WELL #: <u>11</u> PITS: <u>SEP. / PROD.</u>	DATE STARTED: <u>4/14/99</u>
QUAD/UNIT <u>J</u> SEC: <u>14</u> TWP: <u>26N</u> RNG: <u>4W</u> PM: <u>NM</u> CNTY: <u>RA</u> ST: <u>NM</u>	DATE FINISHED: _____
DEP/FEETAGE: <u>NW/4 SE/4</u> CONTRACTOR: <u>JUC</u>	ENVIRONMENTAL SPECIALIST: <u>NV</u>

SOIL REMEDIATION:

REMEDICATION SYSTEM: LANDFARM

APPROX. CUBIC YARDAGE: 200

LAND USE: RANGE

LIFT DEPTH (ft): 1.5

FIELD NOTES & REMARKS:

DEPTH TO GROUNDWATER >100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'
NMDCI RANKING SCORE 0 NMDCI TPH CLOSURE STD: 5000 PPM 8/13/95

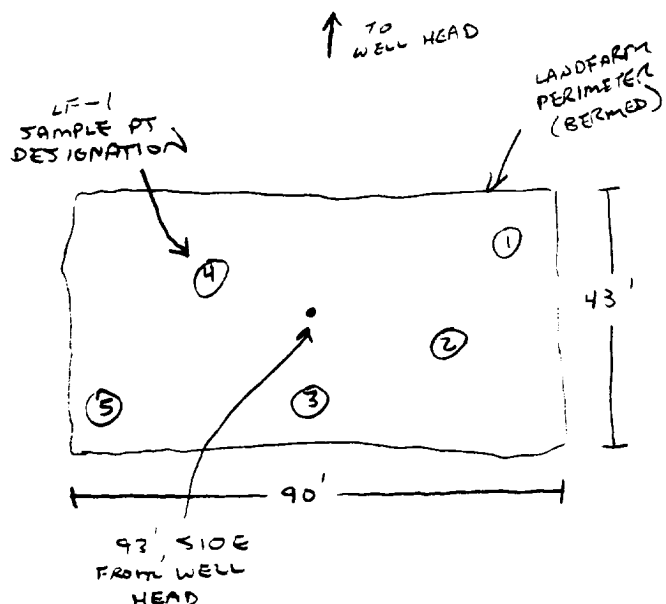
SOIL MOSTLY DR. YELL. BROWN TO DUSKY RED SILTY SAND TO SILTY CLAY, NON COHESIVE TO SLIGHTLY PLASTIC, SLIGHTLY MOIST FIRM, SAMPLING DEPTHS RANGE FROM 6-12 INCHES, NO APPARENT STAINING EVIDENT, STRONG HC ODOR EVIDENT IN COMPOSITE SOIL, COLLECTED 5 PT. COMPOSITE SAMPLE FOR LAB ANALYSIS.

CLOSED

FIELD 4181 CALCULATIONS

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

SKETCH/SAMPLE LOCATIONS N



OVM RESULTS

LAB SAMPLES

SAMPLE ID	FIELD HEADSPACE PID (ppm)	SAMPLE ID	ANALYSIS	TIME	RESULTS
LF-1	262	LF-1	TPH (8015)	1200	950
			BENZENE		0.0397 ppm
			TOTAL BTEX		4.990 ppm

SCALE

0 1 FT

TRAVEL NOTES:

CALLOUT: NA

ONSITE: 4/14/99

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client: Blagg / CONOCO
Sample ID: LF - 1
Laboratory Number: F027
Chain of Custody No: 6648
Sample Matrix: Soil
Preservative: Cool
Condition: Cool and Intact

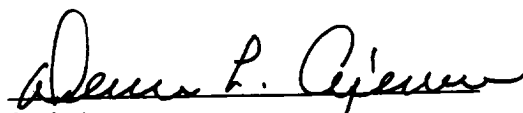
Project #: 403410
Date Reported: 04-15-99
Date Sampled: 04-14-99
Date Received: 04-14-99
Date Extracted: 04-15-99
Date Analyzed: 04-15-99
Analysis Requested: 8015 TPH

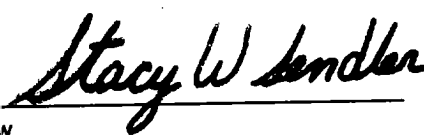
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	106	0.2
Diesel Range (C10 - C28)	844	0.1
Total Petroleum Hydrocarbons	950	0.2

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 A #11 Landfarm. 5 Pt. Composite.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / CONOCO	Project #:	403410
Sample ID:	LF - 1	Date Reported:	04-15-99
Laboratory Number:	F027	Date Sampled:	04-14-99
Chain of Custody:	6648	Date Received:	04-14-99
Sample Matrix:	Soil	Date Analyzed:	04-15-99
Preservative:	Cool	Date Extracted:	04-15-99
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	39.7	8.8
Toluene	279	8.4
Ethylbenzene	458	7.6
p,m-Xylene	2,640	10.8
o-Xylene	1,570	5.2
Total BTEX	4,990	

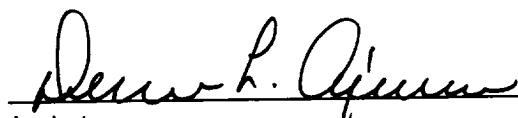
ND - Parameter not detected at the stated detection limit.

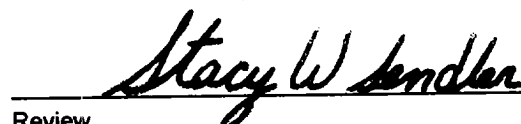
Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	100 %
	Bromofluorobenzene	100 %

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 A #11 Landfarm. 5 Pt. Composite.


Analyst


Review

6648

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