

DEPUTY OIL & GAS INSPECTOR

007 0 8 1999

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

BT 539

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

Blow - OK
Sep - OK

PIT REMEDIATION AND CLOSURE REPORT

Operator: AMOCO PRODUCTION COMPANY		Telephone: (505) 326-9200
Address: 200 Amoco Court, Farmington, NM 87401		
Facility or Well Name: JICARILLA CONTRACT 148 - 40		
Location: Unit or Qtr/Qtr Sec A Sec 13 T2S R5W County RIO ARRIBA		
Pit Type: Separator Dhydrator Other BLOW		
Land Type: RANGE		
Pit Location:		
(Attach diagram)	Pit dimensions: length 41', width 50', depth 19'	
	Reference: wellhead X, other	
	Footage from reference: 102'	
	Direction from reference: 61 Degrees X East of North X West South	
Depth To Groundwater: (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)
Distance to an Ephemeral Stream (Downgradient dry wash greater than ten feet in width)	Less than 100 feet Greater than 100 feet	(10 points) (0 points)
Distance to Nearest Lake, Playa, or Watering Pond (Downgradient lakes, playas and livestock or wildlife watering ponds)	Less than 100 feet Greater than 100 feet	(10 points) (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 No	(20 points) (0 points)
Distance To SurfaceWater: (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)
RANKING SCORE (TOTAL POINTS):		

Date Remediation Started: _____ Date Completed: 4/15/98

Remediation Method: Excavation ☒ Approx. cubic yards 1,500
(check all appropriate sections) Landfarmed ☒ Insitu Bioremediation _____
Other _____

Remediation Location: Onsite ☒ Offsite ☒ JICARILLA CONTRACT 148-11 (H-13-25-5)
(i.e. landfarmed onsite, name and location of offsite facility)

General Description of Remedial Action: Excavation. BEDROCK BOTTOM.

Groundwater Encountered: No ☒ 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 14' (WEST SIDEWALL)

Sample date 4/13/98 Sample time 1015

Sample Results

Soil: Benzene	(ppm)	<u>0.0282</u>	Water: Benzene	(ppb)	_____
Total BTEX	(ppm)	<u>12.920</u>	Toluene	(ppb)	_____
Field Headspace	(ppm)	<u>175.5</u>	Ethylbenzene	(ppb)	_____
TPH	(ppm)	<u>122</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 4/15/98 PRINTED NAME Buddy D. Shaw
SIGNATURE Buddy D. Shaw AND TITLE Environmental Coordinator

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: Kate C. Mamm DATE: 4-29-98

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>BJ539</u> C.D.C. NO: <u>5741</u>
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FIELD REPORT: CLOSURE VERIFICATION	PAGE No: <u>1</u> of <u>1</u>
LOCATION: <u>NAMEJICA CONTR. 148</u> WELL #: <u>40</u> PIT: <u>BLOW</u>	DATE STARTED: <u>4/13/98</u> DATE FINISHED: _____
QUAD/UNIT: <u>A</u> SEC: <u>13</u> TWP: <u>25N</u> RNG: <u>5W</u> PM: <u>NM CNTY RA</u> ST: <u>NM</u>	ENVIRONMENTAL SPECIALIST: <u>NV</u>
STR/FOOTAGE: <u>NE/4 NE/4</u> CONTRACTOR: <u>P+S</u>	

EXCAVATION APPROX. 41 FT x 50 FT x 19 FT DEEP. CUBIC YARDAGE: 1,500

DISPOSAL FACILITY: ON-SITE & JICA CONTR 148-11 REMEDIATION METHOD: LANDFARMED

LAND USE: RANGE LEASE: JICA. 148 FORMATION: DK

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 102 FT. N61E FROM WELLHEAD.

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

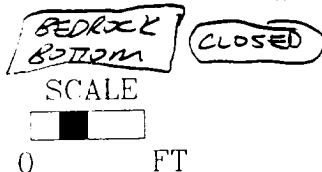
NMOCD PANKING SCOPE: 0 NMOCD TPH CLOSURE STD: 5000 PPM

COIL AND EXCAVATION DESCRIPTION:

CHECK ONE:
☒ PIT ABANDONED
☐ STEEL TANK INSTALLED
☐ FIBERGLASS TANK INSTALLED

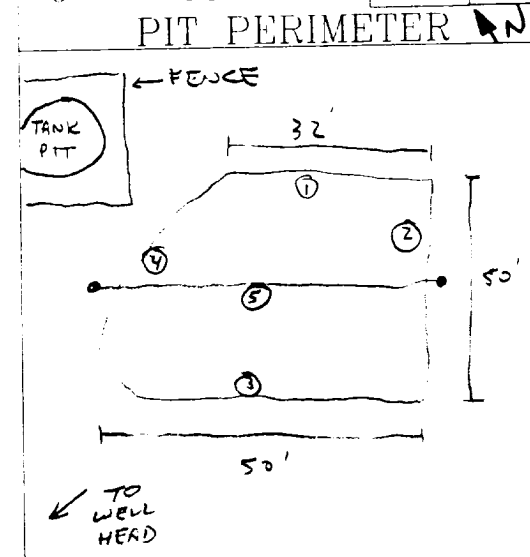
MOSTLY DK. YELL. BROWN SAND FROM GRADE TO A MAX. OF 10' NON COHESIVE, SLIGHTLY MOIST, FIRM, NO APPARENT STAINING OBSERVED EXCEPT IN SOUTHEAST CORNER OF EXCAVATION RESEMBLING DRIVING MUD (DK. GRAY PLASTIC CLAY), FROM 10' TO APPROX. 17' BELOW GRADE - DUSKY RED CLAY, SLIGHTLY PLASTIC @ 10' TO HIGHLY PLASTIC @ 17' SLIGHTLY MOIST, FIRM TO VERY HARD (NEAR PIT BOTTOM), STRONG HC ODOR OBSERVED IN WEST SIDEWALL OVM SAMPLE.

PIT BOTTOM - DUSKY RED SHALE, VERY HARD, NO APPARENT HC ODOR OBSERVED IN OVM SAMPLE.



FIELD 418.1 CALCULATIONS

TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
1015							

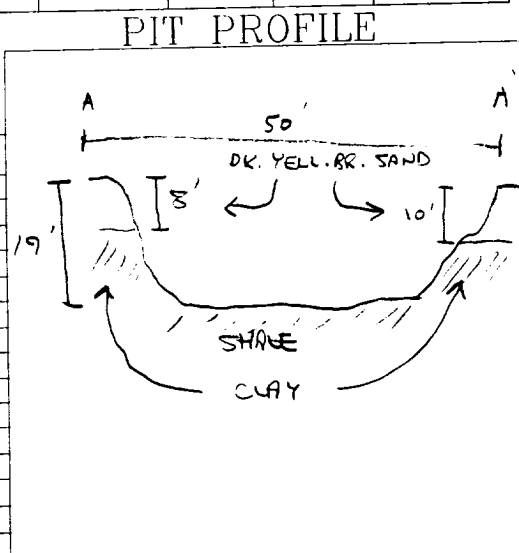


OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 @ 15'	10.4
2 @ 9'	0.0
3 @ 14'	0.0
4 @ 14'	175.5
5 @ 19'	0.0

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME
④ @ 14'	TPH/BTEX	1015
BOTH PASSED		



TRAVEL NOTES: CALLOUT 4/8/98 AFTER. ONSITE: 4/13/98 MORN.

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

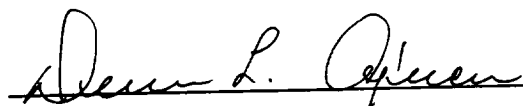
Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	4 @ 14'	Date Reported:	04-14-98
Laboratory Number:	D099	Date Sampled:	04-13-98
Chain of Custody No:	5741	Date Received:	04-13-98
Sample Matrix:	Soil	Date Extracted:	04-14-98
Preservative:	Cool	Date Analyzed:	04-14-98
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

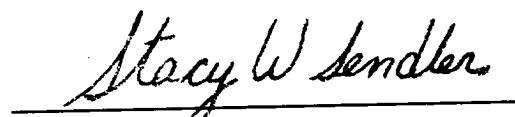
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	118	0.2
Diesel Range (C10 - C28)	3.6	0.1
Total Petroleum Hydrocarbons	122	0.2

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 contract 148-40. Blow Pit.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	4 @ 14'	Date Reported:	04-14-98
Laboratory Number:	D099	Date Sampled:	04-13-98
Chain of Custody:	5741	Date Received:	04-13-98
Sample Matrix:	Soil	Date Analyzed:	04-14-98
Preservative:	Cool	Date Extracted:	04-14-98
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	28.2	17.5
Toluene	1,680	16.7
Ethylbenzene	1,090	15.2
p,m-Xylene	8,010	21.6
o-Xylene	2,110	10.4
Total BTEX	12,920	

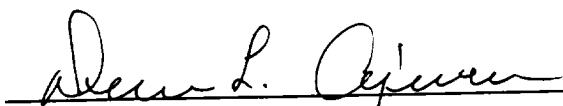
ND - Parameter not detected at the stated detection limit.

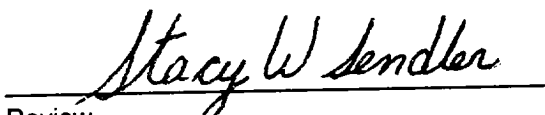
Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	100 %
	Bromofluorobenzene	100 %

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 Contract 148-40. Blow Pit.


Analyst


Review

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

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

PIT REMEDIATION AND CLOSURE REPORT

Operator: AMOCO PRODUCTION COMPANY **Telephone:** (505) 326-9200
Address: 200 Amoco Court, Farmington, NM 87401
Facility or Well Name: JICARILLA CONTRACT 148 - 40
Location: Unit or Qtr/Qtr Sec A Sec 13 T 25N R 5W County RIO ARriba
Pit Type: Separator ☒ Dehydrator ☐ Other ☐
Land Type: RANGE

Pit Location: Pit dimensions: length 21', width 22', depth 9'
(Attach diagram) Reference: wellhead ☒, other ☐
Footage from reference: 123'
Direction from reference: 37 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

8J539

SEP. PIT

Date Remediation Started: _____ Date Completed: 4/15/98Remediation Method: Excavation ☒
(check all appropriate sections) Landfarmed ☒Approx. cubic yards 150

Insitu Bioremediation _____

Other _____

Remediation Location:
(i.e. landfarmed onsite,
name and location of
offsite facility)Onsite ☒ Offsite ☒ JICARILLA CONTRACT 148-11
(H-13-25-5)General Description of Remedial Action: Excavation. BEDROCK BOTTOM.Groundwater Encountered: No ☒ Yes _____ Depth _____

Final Pit:

Closure Sampling:

(if multiple samples,
attach sample results
and diagram of sample
locations and depths)Sample location see Attached DocumentsSample depth 6' (NORTH SIDEWALK)Sample date 4/13/98 Sample time 1050

Sample Results

Soil: Benzene	(ppm)	<u>0.464</u>	Water: Benzene	(ppb)	_____
Total BTEX	(ppm)	<u>2.760</u>	Toluene	(ppb)	_____
Field Headspace	(ppm)	<u>110.7</u>	Ethylbenzene	(ppb)	_____
TPH	(ppm)	<u>47.7</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

4/15/98PRINTED NAME Buddy D. Shaw

SIGNATURE

Buddy D. Shaw

AND TITLE

Environmental Coordinator

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:

Kate C. Mamm

DATE:

4-29-98

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>85539</u> C.O.C. NO: <u>5741</u>
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FIELD REPORT: CLOSURE VERIFICATION		PAGE No: <u>1</u> of <u>1</u>
LOCATION: NAME: <u>JICA. CONTR. 148</u> WELL #: <u>40</u> PIT: <u>SEP/PROD.</u>		DATE STARTED: <u>4/13/98</u> DATE FINISHED: _____
QUAD/UNIT <u>A</u> SEC: <u>13</u> TWP: <u>25N</u> RNG: <u>5W</u> PM: <u>NM</u> CNTY: <u>RA</u> ST: <u>NM</u>		ENVIRONMENTAL SPECIALIST: <u>NV</u>
QTR/FOOTAGE: <u>NE 1/4 NE 1/4</u> CONTRACTOR: <u>P & S</u>		

EXCAVATION APPROX. <u>21</u> FT x <u>22</u> FT x <u>9</u> FT DEEP.	CUBIC YARDAGE: <u>150</u>
DISPOSAL FACILITY: <u>ON-SITE</u>	REMEDIATION METHOD: <u>LANDFARMED</u>
LAND USE: <u>RANGE</u>	LEASE: <u>JICA. 148</u> FORMATION: <u>DK</u>

FIELD NOTES & REMARKS:	PIT LOCATED APPROXIMATELY <u>123</u> FT. <u>N37W</u> FROM WELLHEAD.
DEPTH TO GROUNDWATER: <u>2100'</u>	NEAREST WATER SOURCE: <u>21000'</u> NEAREST SURFACE WATER: <u>21000'</u>
NMOCB RANKING SCORE: <u>0</u>	NMOCB TPH CLOSURE STD: <u>5000</u> PPM
SOIL AND EXCAVATION DESCRIPTION:	

CHECK ONE:	
☒	PIT ABANDONED
☐	STEEL TANK INSTALLED
☐	FIBERGLASS TANK INSTALLED

MOSTLY DUSKY RED CLAY PHASING INTO SHALE, SLIGHTLY PLASTIC TO HIGHLY PLASTIC (NEAR PIT BOTTOM), FIRM NEAR SURFACE TO VERY HARD NEAR PIT BOTTOM, NO ODOM DETECTED IN NORTH & WEST SIDEWALL ODM SAMPLES, NO OBVIOUS STAINING OBSERVED W/IN EXCAVATION.

PIT BOTTOM - DUSKY RED SHALE, VERY HARD, NO ODOM DETECTED IN ODM SAMPLE (BELOW 100 PPM).

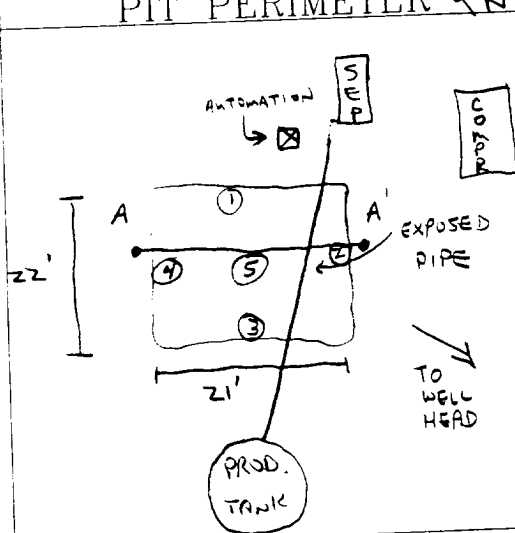
BECK BOTTOM CLOSED

FIELD 418.1 CALCULATIONS

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

SCALE
0 FT

PIT PERIMETER



OVM RESULTS

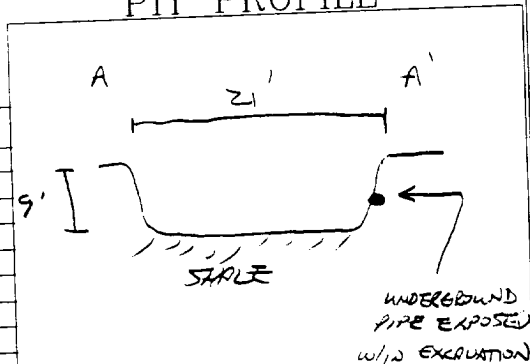
SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 C 6'	110.7
2 E 6'	9.4
3 E 6'	19.8
4 E 6'	99.4
5 E 9'	76.2

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME
DC 6'	TPH/BTEX	1050

BOTH PASSED

PIT PROFILE



TRAVEL NOTES: CALLOUT: 4/8/98 - AFTER. ONSITE: 4/13/98 MORN.

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	1 @ 6'	Date Reported:	04-14-98
Laboratory Number:	D100	Date Sampled:	04-13-98
Chain of Custody No:	5741	Date Received:	04-13-98
Sample Matrix:	Soil	Date Extracted:	04-14-98
Preservative:	Cool	Date Analyzed:	04-14-98
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

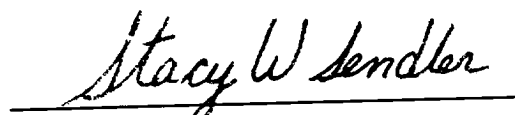
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	2.9	0.2
Diesel Range (C10 - C28)	44.8	0.1
Total Petroleum Hydrocarbons	47.7	0.2

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 contract 148-40. Separator Pit.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	1 @ 6'	Date Reported:	04-14-98
Laboratory Number:	D100	Date Sampled:	04-13-98
Chain of Custody:	5741	Date Received:	04-13-98
Sample Matrix:	Soil	Date Analyzed:	04-14-98
Preservative:	Cool	Date Extracted:	04-14-98
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	464	17.5
Toluene	237	16.7
Ethylbenzene	404	15.2
p,m-Xylene	1,220	21.6
o-Xylene	435	10.4
Total BTEX	2,760	

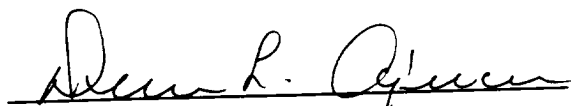
ND - Parameter not detected at the stated detection limit.

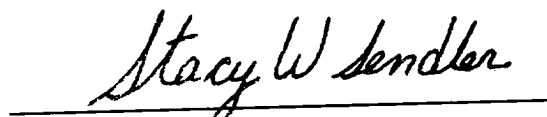
Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	97 %
	Bromofluorobenzene	97 %

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 Contract 148-40. Separator Pit.


Analyst


Review

CHAIN OF CUSTODY RECORD

Client/Project Name			Project Location		ANALYSIS/PARAMETERS									
Sampler: (Signature)			Chain of Custody Tape No.										Remarks	
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TPH (8015)	BTEX (8021)							
③ @ 14'	4/13/98	1015	D099	SOIL	1	✓	✓						BOTH SAMPLES PRESERV. - COOL	
① @ 6'	4/13/98	1050	D100	SOIL	1	✓	✓						SEPARATOR PIT	
													IF TPH < 5000 ppm, THEN RUN BTEX.	
													SAMPLES RECEIVED COAL'S INTERCH	
Relinquished by: (Signature)			Date		Time		Received by: (Signature)		Date		Time			
Relinquished by: (Signature)			4/13/98		1420		Deane L. Cyrenus		4/13/98		1420			
Relinquished by: (Signature)							Received by: (Signature)							
Relinquished by: (Signature)							Received by: (Signature)							

ENVIROTECH INC.

5796 U.S. Highway 64-3014

Farmington, New Mexico 87401

(505) 632-0615

85539

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

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

ON-SITE SOIL REMEDIATION REPORT

Operator: AMOCO PRODUCTION COMPANY Telephone: (505) 326-9200
Address: 200 Amoco Court, Farmington, NM 87401
Facility or Well Name: JICARILLA CONTRACT 148-40
Location: Unit or Qtr/Qtr Sec A Sec 13 T 25N R 5W County RIO ARIZONA
Land Type: _____

Date Remediation Started: 4-13-98 Date Completed: 1-19-99
Remediation Method: Landfilled ☒ Approx. cubic yards 1000
Composted _____
Other _____

Distance 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

Final Closure Sampling:

Sampling Date: 1-13-99 Time: 1050
Sample Results: (LF-1 & LF-2)
Field Headspace (ppm) 0.0
TPH (ppm) (LF 2) 215 Method 8015
Other MULTIPLE SAMPLES - SEE ATTACHED FORM

RANKING SCORE (TOTAL POINTS): 0

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

DATE 1/19/99 PRINTED NAME Buddy D. Shaw
SIGNATURE Buddy D. Shaw AND TITLE Environmental Coordinator

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: Kee C M... DATE: 3-31-99

CLIENT: AMOCOBLAGG ENGINEERING, INC.
P.O. BOX 87, BLOOMFIELD, NM 87413
(505) 632-1199LOCATION NO: 83539C.D.C. NO: 6545

FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: NAME: JICARILLA CONTRACT 148 WELL #: 40 PITS: SEP. BLOW
QUAD/UNIT: A SEC: 13 TWP: 25N RNG: 5W PM: NM CNTY: RA ST: NM
QTP/FOOTAGE: NE/4 NE/4 CONTRACTOR:DATE STARTED: 1.13.99DATE FINISHED: 1.19.99ENVIRONMENTAL
SPECIALIST: REP

SOIL REMEDIATION:

REMEDIATION SYSTEM: LANDFARMAPPROX. CUBIC YARDAGE: 1000LAND USE: RANGELIFT DEPTH (ft): 1-2

FIELD NOTES & REMARKS:

DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'NMDCD RANKING SCORE: 0 NMDCD TPH CLOSURE STD: 5000PPM

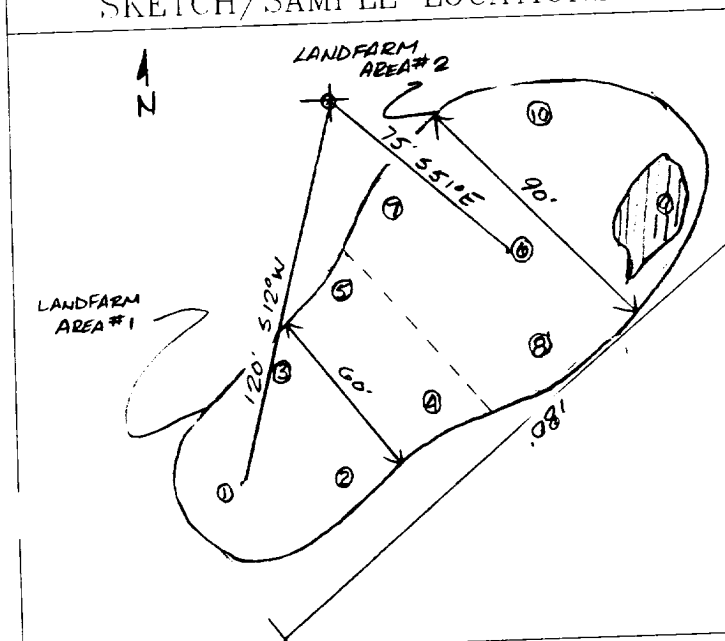
DK. YELLOW ORANGE TO DK. BROWN CLAYEY SAND. COHESIVE, SLIGHTLY MOIST FIRM
SMALL AREA OF STAINING OBSERVED IN LANDFARM #2 AREA (SEE SKETCH BELOW) NO HCODORS DETECTED.
SAMPLING DEPTHS RANGE FROM 6"-18". TOOK A SPT. COMPOSITE SAMPLE FROM EACH LANDFARM
AREA FOR LAB ANALYSIS.

APPROX. 650 C.Y. DEPOSITED
TO 148-11.CLOSED

FIELD 4181 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
LF-2	0.0

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME	RESULTS
LF-1	TPH (B015)	1050	151
LF-2	" "	1110	215

SCALE



0 FT

TRAVEL NOTES:

CALLOUT: N/AONSITE: 1.13.99

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client: Blagg / AMOCO
Sample ID: LF - 1
Laboratory Number: E520
Chain of Custody No: 6545
Sample Matrix: Soil
Preservative: Cool
Condition: Cool and Intact

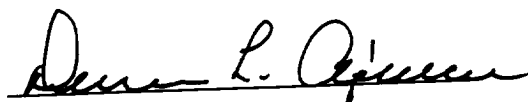
Project #: 04034-10
Date Reported: 01-19-99
Date Sampled: 01-13-99
Date Received: 01-15-99
Date Extracted: 01-15-99
Date Analyzed: 01-19-99
Analysis Requested: 8015 TPH

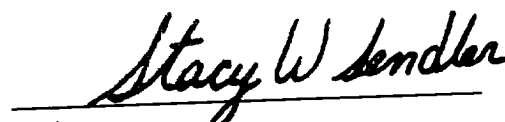
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	6.1	0.2
Diesel Range (C10 - C28)	145	0.1
Total Petroleum Hydrocarbons	151	0.2

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 Contract 148 - 40 Landfarm. 5 Pt. Composite.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	LF - 2	Date Reported:	01-19-99
Laboratory Number:	E521	Date Sampled:	01-13-99
Chain of Custody No:	6545	Date Received:	01-15-99
Sample Matrix:	Soil	Date Extracted:	01-15-99
Preservative:	Cool	Date Analyzed:	01-19-99
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

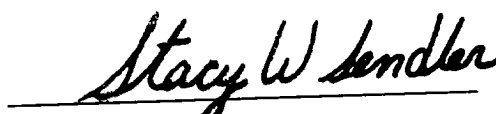
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	5.8	0.2
Diesel Range (C10 - C28)	209	0.1
Total Petroleum Hydrocarbons	215	0.2

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 Contract 148 - 40 Landfarm. 5 Pt. Composite.


Analyst


Review

6545

22 CCC 6545-6551