

District I
P.O. Box 1980, Hobbs, NM
District II
P.O. Drawer DD, Aztec, NM 86821
District III
3 Brazos Rd, Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

OK
SUBMIT 1 COPY TO
APPROPRIATE
DISTRICT OFFICE
AND 1 COPY TO
SANTA FE OFFICE

OIL CON. DIV.
PIT REMEDIATION AND CLOSURE REPORT

A0079

Operator: Amoco Production Company Telephone: (505) - 326-9200
Address: 200 Amoco Court, Farmington, New Mexico 87401
Facility Or: JACK Frost "B" #2
Well Name
Location: Unit or Qtr/Qtr Sec D Sec 27 T 27N R 10W County SAN JUAN
Pit Type: Separator Dehydrator Other Blow
Land Type: BLM ☒, State ☐, Fee ☐, Other ☐

Pit Location: Pit dimensions: length 25, width 25, depth 8
(attach diagram)
Reference: wellhead ☒, other ☐
Footage from reference: 300'
Direction from reference: 50 Degrees ☒ East North ☐
of
☐ West South ☒

Depth To Ground Water:
(Vertical distance from
contaminants to seasonal
high water elevation of
ground water)

Less than 50 feet (20 points)
50 feet to 99 feet (10 points)
Greater than 100 feet (0 Points) 20

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) 0
No (0 points)

Distance To Surface Water:
(Horizontal distance to perennial
lakes, ponds, rivers, streams, creeks,
irrigation canals and ditches)

Less than 200 feet (20 points)
200 feet to 1000 feet (10 points) 0
Greater than 1000 feet (0 points)

RANKING SCORE (TOTAL POINTS): 20

Date Remediation Started: _____

Date Completed: 13 July 1994

Remediation Method: Excavation ☒

Approx. cubic yards 185

(Check all appropriate
actions)

Landfarmed ☒

Insitu Bioremediation _____

Other _____

Remediation Location:

Onsite ☒ Offsite _____

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

General Description Of Remedial Action:

Excavation 24 "B" 1200' 750'

Ground Water 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 8'

Sample date 13 July 94

Sample time _____

Sample Results

Benzene(ppm) ND

Total BTEX(ppm) 0.34

Field headspace(ppm) 306

TPH 62 ppm

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

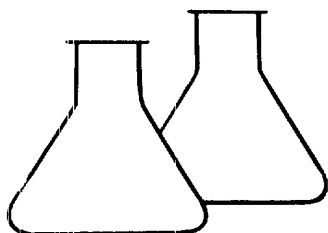
DATE 13 July 1994

SIGNATURE

B. Shaw

PRINTED NAME
AND TITLE

Buddy D. Shaw
Environmental Coordinator



ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401

PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Amoco	Project #:	92140
Sample ID:	5 @ 8'	Date Sampled:	07-13-94
Laboratory Number:	7720	Date Received:	07-13-94
Sample Matrix:	Scil	Date Analyzed:	07-19-94
Preservative:	Cool	Date Reported:	07-21-94
Condition:	Cool and Intact	Analysis Needed:	TPH

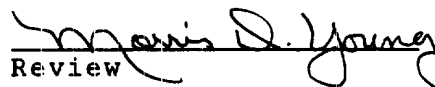
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
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Total Petroleum Hydrocarbons	62	10.0

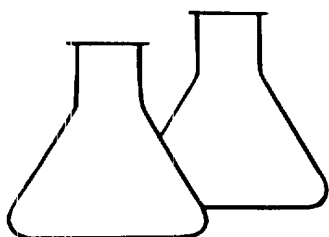
ND = Parameter not detected at the stated detection limit.
N/A = Not applicable

Method: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

Comments: Jack Frost "B" #2 Blow Pit A0079.


Analyst


Review



ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401
PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	568'	Date Reported:	07-27-94
Laboratory Number:	7720	Date Sampled:	07-13-94
Sample Matrix:	Scil	Date Received:	07-13-94
Preservative:	Cool	Date Extracted:	07-18-94
Condition:	Cool & Intact	Date Analyzed:	07-26-94
		Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	20.1
Toluene	93	20.1
Ethylbenzene	43	13.4
p,m-Xylene	130	20.1
o-Xylene	74	20.1

340

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	96 %
	Bromofluorobenzene	109 %

Method: Method 5030, Purge-and-Trap, Test Methods for
Evaluating Solid Waste, SW-846, USEPA, July 1992

Method 8020, Aromatic Volatile Organics, Test Methods
for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

ND - Parameter not detected at the stated detection limit.

Comments: Jack Frost "B" #2 Blow Pit A0079

Rex D. Goffin
Analyst

Mavis D. Young
Review

3804

CHAIN OF CUSTODY RECORD

A0079

[illegible]**ENVIROTECH INC.**

5796 U.S. Highway 64-3014

Farmington, New Mexico 87401

(505) 632-0615

CLIENT: <u>Amoco</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>80114</u> C.D.C. NO: <u>ANALYTICA</u>
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FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: <u>JACK FROST B 2</u>	LEASE: <u>SF-077951A</u>	DATE STARTED: <u>2-6-96</u> DATE FINISHED: <u>4-22-96</u>
QUAD/UNIT: <u>D SEC 27 TWP 27 N RNG 10 W BM NM CNTY SJ ST NM</u>		
DTR/FOOTAGE: <u>NW/MW</u>		ENVIRONMENTAL SPECIALIST: <u>REO</u>
CONTRACTOR: <u>EPC</u>		

SOIL REMEDIATION:

REMEDICATION SYSTEM: <u>COMPOST</u>	APPROX. CUBIC YARDAGE: <u>585</u>
LAND USE: <u>RANGE</u>	

FIELD NOTES & REMARKS:

DEPTH TO GROUNDWATER: <u>150</u>	NEAREST WATER SOURCE: <u>>1000'</u>	NEAREST SURFACE WATER: <u>>1000'</u>
NMOC RANKING SCORE: <u>20</u>	NMOC TPH CLOSURE STD: <u>100 PPM</u>	

2/6 SOIL IS MOIST BROWN, SANDY COMPOST MATERIAL - NO ODOUR / STAIN. COMPOST MATERIAL VISIBLE.

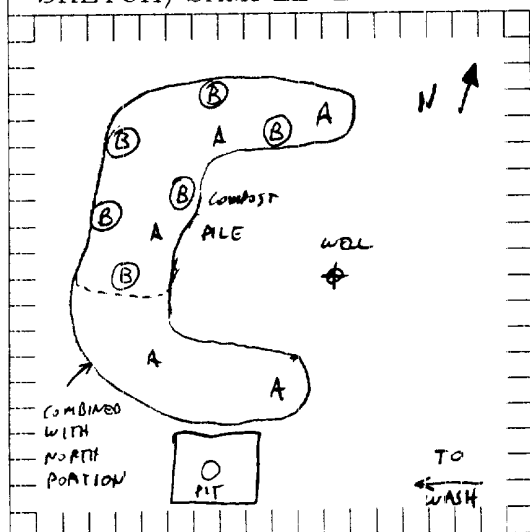
4/22 PILE HAS BEEN MOVED + TREATED - SAMPLE COMPOSITE "B".

FIELD 418.1 CALCULATIONS

SAMPLE ID	LAB No:	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. ppm

CLOSE C.P.

SKETCH/SAMPLE LOCATIONS



OVN RESULTS

	SAMPLE ID	FIELD HEADSPACE PID (ppm)
<u>2/6</u>	COMP. A	<u>60</u>
<u>4/22</u>	COMP. B	<u>0</u>

LAB SAMPLES

SAMPLE ID	ANALYSIS
COMP. A	<u>8015</u> = <u>480</u>
	<u>845</u>
COMP. B	<u>8015</u> = <u>24.8</u>
	<u>0830</u>

TRAVEL NOTES:

CALLOUT: _____	ONSITE: <u>2-6-96</u> <u>0830</u>
	<u>4-22-96</u> <u>0815</u>

TOTAL VOLATILE PETROLEUM HYDROCARBONS
Gasoline Range Organics

Blagg Engineering, Inc.

Project ID: Jack Frost B2
Sample Matrix: Soil
Preservative: Cool
Condition: Intact

Report Date: 05/09/96
Date Sampled: 04/22/96
Date Received: 04/22/96
Date Extracted: 05/01/96
Date Analyzed: 05/06/96

Sample ID	Lab ID	Concentration (mg/kg)	Detection Limit (mg/kg)
Comp. B	3203	ND	8.26

ND- Analyte not detected at the stated detection limit.

Quality Control: Surrogate % Recovery Acceptance Limits
Trifluorotoluene 97% 50 - 150%

Reference: Method for the Determination of Gasoline Range Organics,
State of Tennessee, Department of Environment and Conservation, Division
of Underground Storage Tanks.

Comments:


Analyst


Review

TOTAL RECOVERABLE PETROLEUM HYDROCARBONS
Diesel Range Organics

Blagg Engineering, Inc.

Project ID: Jack Frost B2
Sample Matrix: Soil
Preservative: Cool
Condition: Intact

Report Date: 05/09/96
Date Sampled: 04/22/96
Date Received: 04/22/96
Date Extracted: 05/06/96
Date Analyzed: 05/07/96

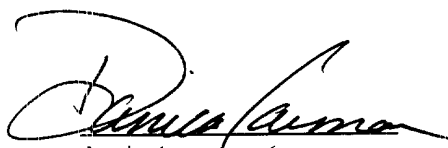
Sample ID	Lab ID	Concentration (mg/kg)	Detection Limit (mg/kg)
Comp. B	3203	24.8	15.7

ND- Analyte not detected at the stated detection limit.

Quality Control:	<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptance Limits</u>
	o - Terphenyl	74%	50 - 150%

Reference: EPA Method 8015A, modified. "Nonhalogenated Volatile Organics by Gas Chromatography." Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, 3rd Ed, Final Update I, July, 1992. USEPA.

Comments:


Analyst


Review

PROJECT MANAGER:

Analytica Lab I.D.:

Company:

Address:

Phone:

Fax:

詩經

Company:

Address:

Sample ID	Date	Time	Matrix	Lab ID
Comp. A	4-22	1135	Soil	
Comp. A	"	1110	"	
Comp. B	"	1030	"	
Comp. A	"	0950	"	
Comp. B	"	0910	"	
Comp. B	"	0830		

Project Information	Sample Receipt
Proj. #:	No. Containers:
Proj. Name: <i>AmoCo</i>	Custody Seals: <i>Y / N / NA</i>
P. O. No:	Received Intact:
Shipped Via: <i>AEL'N</i>	Received Cold:

Required Turnaround Time (Prior Authorization Required for Rush)

CHAIN OF CUSTODY

ORGANIC ANALYSES										WATER ANALYSES										METALS			COMMENTS			
Petroleum Hydrocarbons (418.1)	Gasoline / Diesel (mod. 8015)	Gasoline (GFO)	Aromatic HCs BTX/MTBE (602 / 8020)	Chlorinated Hydrocarbons (8010)	SDWA Volatiles (502.1 / 503.1)	Chlorinated Pesticides / PCBs (608 / 8080)	Herbicides (615 / 8150)	Volatiles GC/MS (624 / 8240 / 8260)	Base / Neutral / Acid GC/MS (625 / 8270)	Polynuclear Aromatic Hydrocarbons (8100)	TCLP Extraction	Other (specify):	Cation / Anion	Specific Cations (specify):	Specific Anions (specify):	BOD / Fecal / Total Coliform	Solids: TDS / TSS / SS	Nutrients: NH4+ / NO2- / NO3- / TKN	Oil and Grease	Other (specify):	Priority Pollutants	RCRA Metals (Total)		RCRA Metals TCLP (1311)	Other (specify):	
✓																					EPC					PPTIN CC AIE
✓																					EPC					P.D. PIPKIN 4E
✓																					EPC					J.C. GORDON DZ
✓																					EPC					J.C. GORDON EI
✓																					EPC					J.C. GORDON DI
✓																					EPC					JACK FROST BZ

Sampled By:

R.F.O. Field

Signature

Date:

4-22-96

Company:

BEI

Relinquished By:

R.F.O. Field

Signature

Date:

4-22-96

Company:

BEI

Received By:

BEI

Signature

Date:

4-22-96

Company:

BEI

Time:

—

Time:

1315

Time:

4/1

Time:

1:15

Please Fill Out Thoroughly.

Shaded areas for lab use only.

White/Yellow: Analytica
Pink: Client

TOTAL VOLATILE PETROLEUM HYDROCARBONS Gasoline Range Organics

Blagg Engineering, Inc.

Project ID: Jack Frost B2
Sample Matrix: Soil
Preservative: Cool
Condition: Intact

Report Date: 02/09/96
Date Sampled: 02/06/96
Date Received: 02/06/96
Date Extracted: 02/06/96
Date Analyzed: 02/06/96

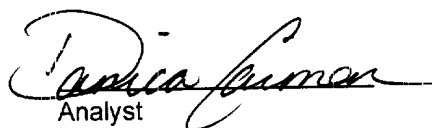
Sample ID	Lab ID	Concentration (mg/kg)	Detection Limit (mg/kg)
Comp A Compost Pile	2592	ND	16.2

ND- Analyte not detected at the stated detection limit.

Quality Control:	<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptance Limits</u>
	Trifluorotoluene	101%	50 - 150%

Reference: Method for the Determination of Gasoline Range Organics,
State of Tennessee, Department of Environment and Conservation, Division
of Underground Storage Tanks.

Comments:


Analyst


Review

TOTAL RECOVERABLE PETROLEUM HYDROCARBONS

Diesel Range Organics

Blagg Engineering, Inc.

Project ID: Jack Frost B2
Sample Matrix: Soil
Preservative: Cool
Condition: Intact

Report Date: 02/09/96
Date Sampled: 02/06/96
Date Received: 02/06/96
Date Extracted: 02/07/96
Date Analyzed: 02/07/96

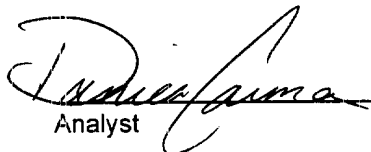
Sample ID	Lab ID	Concentration (mg/kg)	Detection Limit (mg/kg)
Comp A Compos: Pile	2592	480	16.9

ND- Analyte not detected at the stated detection limit.

Quality Control:	<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptance Limits</u>
	o - Terphenyl	108%	50 - 150%

Reference: EPA Method 8015A, modified. "Nonhalogenated Volatile Organics by Gas Chromatography." Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, 3rd Ed, Final Update I, July, 1992. USEPA.

Comments:


Analyst


Review

