

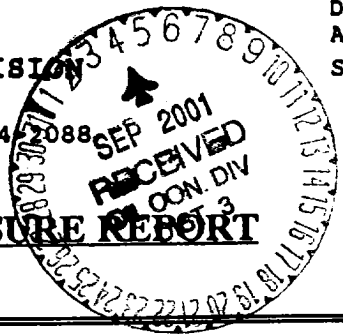
OK 12/20/01

District I
P.O. Box 1980, Hobbs, NM
District II
P.O. Drawer DD, Artesia, NM 88211
District III
1000 Rio 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

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



PIT REMEDIATION AND CLOSURE REPORT

Operator: Amoco Production Company Telephone: (505) -326-9200
Address: 200 Amoco Court, Farmington, New Mexico 87401
Facility Or: W. D. HEATH A # 3X
Well Name
Location: Unit or Qtr/Qtr Sec K Sec 17 T29N R 9W County SAN JUAN
Pit Type: Separator X Dehydrator Other
Land Type: BLM X, State, Fee, Other

Pit Location: Pit dimensions: length 15', width 12', depth 15'
(Attach diagram) Reference: wellhead X, other
Footage from reference: 150'
Direction from reference: 0 Degrees East North of West South X

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) 10
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) 0
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) Greater than 1000 feet (0 points) 0
RANKING SCORE (TOTAL POINTS): 10	

Remediation Method: Excavation X Approx. cubic yards 100
(Check all appropriate sections) Landfarmed X Insitu Bioremediation ____
Other _____

Remediation Location: Onsite X Offsite _____
(ie. landfarmed onsite,
name and location of
offsite facility) _____

General Description Of Remedial Action:

Excavation

Ground Water 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 location see Attached Documents

Sample depth 16'

Sample date 5-20-94 Sample time

Sample Results

Benzene (ppm) 0.06

Total BTEX (ppm) 17.5

Field headspace (ppm) 757

TPH 900

Ground Water 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 6/17/97

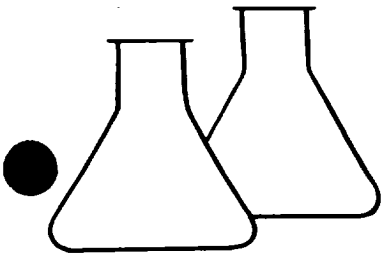
SIGNATURE

PRINTED NAME
AND TITLE

Buddy D. Shaw
Environmental Coordinator

RESULTS TO BOB MICOT 6/2/94 REO

[illegible]



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:	CB @ 16'	Date Sampled:	05-20-94
Laboratory Number:	7473	Date Received:	05-20-94
Sample Matrix:	Soil	Date Analyzed:	05-26-94
Preservative:	Cool	Date Reported:	05-26-94
Condition:	Cool and Intact	Analysis Needed:	TPH

Parameter -----	Concentration (mg/kg) -----	Det. Limit (mg/kg) -----
Total Petroleum Hydrocarbons	900	25.0

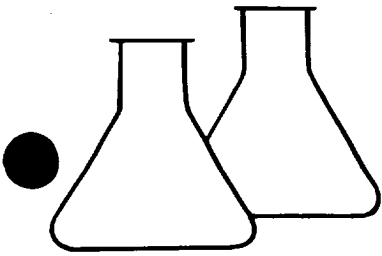
ND = Parameter not detected at the stated detection limit.
N/A = Not applicable

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

Comments: W.D. Heath "A" #3X Sep Pit A0023

Tony Tistano
Analyst

Morris D. Young
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:	CB @ 16'	Date Reported:	05-31-94
Laboratory Number:	7473	Date Sampled:	05-20-94
Sample Matrix:	Soil	Date Received:	05-20-94
Preservative:	Cool	Date Extracted:	05-30-94
Condition:	Cool & Intact	Date Analyzed:	05-30-94
		Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
-----	-----	-----
Benzene	61	13.2
Toluene	1,220	39.6
Ethylbenzene	1,170	26.4
p,m-Xylene	13,900	39.6
o-Xylene	1,180	53

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	-----	-----
	Trifluorotoluene	96 %
	Bromofluorobenzene	92 %

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: W.D. Heath "A" #3X Sep Pit A0023

Tony Tustano
Analyst

Morris S Young
Review

CHAIN OF CUSTODY RECORD

Client/Project Name AMCC # 92140		Project Location W.D. HERTZ "A" #3X		ANALYSIS/PARAMETERS							ACC23		
Sampler: (Signature) R. E. O'Neil		Chain of Custody Tape No.										Remarks	
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	✓	✓	✓	✓	✓	✓	✓	
CB @ 16'	5-20-94	1020	7473	SOIL	1								SEP. PIT RUN BTEX IF NH<1000
CB @ 23'	5-20-94	1100	7474	SOIL	1								BLOW PIT RUN BTEX IF NH<1000
Relinquished by: (Signature) R. E. O'Neil		Date 5-20-94	Time 1504	Received by: (Signature) Tony T... ..		Date 5/20/94		Time 1504					
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												san Juan repro Form 578-81	

RESULTS to Bob MCG 2-16-95 R 10

CLIENT: <u>Amoco</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>A0023</u> C.D.C. NO: <u>—</u>
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FIELD REPORT: <u>LANDFARM/COMPOST PILE CLOSURE VERIFICATION</u> outside	
LOCATION: NAME: <u>W.D. HERTH A</u> WELL #: <u>3X</u> PITS: <u>—</u>	DATE STARTED: <u>2-16-95</u>
QUAD/UNIT: <u>K</u> SEC: <u>17</u> TWP: <u>29N</u> RNG: <u>9W</u> BM: <u>NM</u> CNTY: <u>SJ</u> ST: <u>NM</u>	DATE FINISHED: <u>—</u>
QTR/FOOTAGE: <u>NE/SW</u> CONTRACTOR: <u>PAUL + SON</u>	ENVIRONMENTAL SPECIALIST: <u>R 10</u>

SOIL REMEDIATION:	<u>20 x 40 x 6-10</u>
REMEDICATION SYSTEM: <u>Stockpile</u>	APPROX. CUBIC YARDAGE: <u>300</u>
LAND USE: <u>RANGE</u>	LEASE: <u>SF-076337</u>

FIELD NOTES & REMARKS:

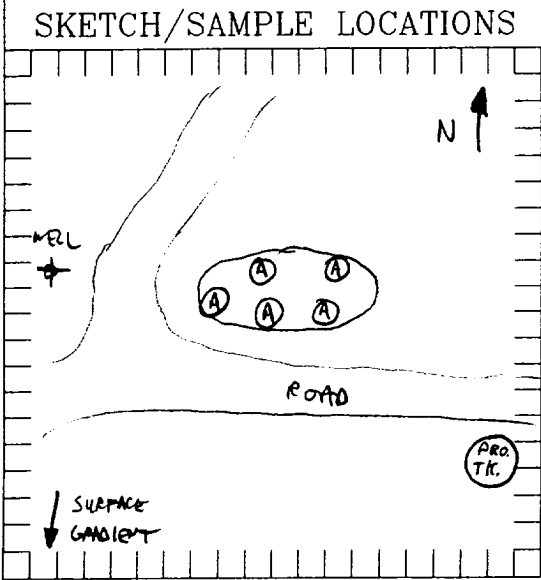
DEPTH TO GROUNDWATER: >50' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'

NMOCB RANKING SCORE: 10 NMOCB TPH CLOSURE STD: 1000 PPM

COMPOSITE STOCKPILE SAMPLE - POSSIBLE COMPOSTED + FINNEY TREATED
FINE, SILTY, CLAYEY SAND.

OPEN

FIELD 418.1 CALCULATIONS						
SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
COMP. A	1371	10.0	20.0	10	626	12,520



OVM RESULTS	
SAMPLE ID	FIELD HEADSPACE PID (ppm)
COMP. A	16

LAB SAMPLES	
SAMPLE ID	ANALYSIS

TRAVEL NOTES: CALLOUT: 2-16-95 ONSITE: 2-16-95 1030

BLAGG ENGINEERING, INC.

P.O. Box 87, Bloomfield, New Mexico 87413

Phone: (505)632-1199 Fax: (505)632-3903

FIELD MODIFIED EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	Amoco	Project #:	
Sample ID:	Composite "A"	Date Analyzed:	2-16-95
Project Location:	W.D. Heath A 3X	Date Reported:	2-16-95
Laboratory Number:	TPH-1371	Sample Matrix:	Soil

Parameter -----	Result, mg/kg -----	Detection Limit, mg/kg -----
Total Recoverable Petroleum Hydrocarbons	12,500	100

ND = Not Detectable at stated detection limits.

QA/QC:	QA/QC Sample TPH mg/kg -----	Duplicate TPH mg/kg -----	% *Diff. -----
	4,760	4,400	8

*Administrative Acceptance limits set at 30%.

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

Comments: Compost Pile - A0023

P. E. O'neal
Analyst

Nelson Tully
Review

CLIENT: <u>BP</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>A0023</u> C.O.C. NO: <u>8409</u>
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FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION	
LOCATION: NAME: <u>HEATH, WD</u> A WELL #: <u>3X</u> PITS:	DATE STARTED: <u>5/31/01</u>
QUAD/UNIT: <u>K</u> SEC: <u>17</u> TWP: <u>29N</u> RNG: <u>9W</u> PM: <u>NM</u> CNTY: <u>SI</u> ST: <u>NM</u>	DATE FINISHED:
QTR/FOOTAGE: <u>NE/SW</u> CONTRACTOR: <u>P+S</u>	ENVIRONMENTAL SPECIALIST: <u>NV</u>

SOIL REMEDIATION:	
REMEDICATION SYSTEM: <u>LANDFARM</u>	APPROX. CUBIC YARDAGE: <u>1400</u>
LAND USE: <u>RANGE-BURN</u> <u>SF-076337</u>	LIFT DEPTH (ft): <u>1'</u>

FIELD NOTES & REMARKS:	
DEPTH TO GROUNDWATER: <u><100'</u> NEAREST WATER SOURCE: <u>>1000'</u> NEAREST SURFACE WATER: <u>>1000'</u>	
NMOCD RANKING SCORE: <u>10</u> NMOCD TPH CLOSURE STD: <u>1000</u> PPM P.C. - <u>5/20/94</u>	
OK. YELL. ORANGE TO BROWN SAND, NON COHESIVE, SLIGHTLY MOIST, FIRM, NO APPARENT DISCOLORATION/STAINING OBSERVED OR HC ODOR DETECTED @ ANY OF THE SAMPLING PTS. OR OVM SAMPLES, SAMPLING DEPTHS RANGED FROM 6"-12", LANDFARM PERIMETER NOT DISTINCTIVE, BUT WAS BASED ON CONVERSATION WITH PAUL VELASQUEZ OF PAUL & SONS, INC., AREA OF SAMPLING PTS. ① + ② MAY CONTAIN ORIGINAL STOCKPILE MATERIAL (APPROX. 300 C.Y.) TESTED 2/16/95 (LIFT OF APPROX. 3.5- 4.5' EVIDENT ON NORTH SIDE - SLOPED), COLLECTED 5 PT. COMPOSITE SAMPLES FOR LAB ANALYSIS, (LF-1 SAMPLE PTS. 1-5)	
(LF-2 SAMPLE PTS. 6-10)	

FIELD 418.1 CALCULATIONS							
SAMP. TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm

SKETCH/SAMPLE LOCATIONS

OVM CALIB. READ. 53.0 ppm
TIME: 0800 PM 5/30/01

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 (8015)	1045	ND
LF-2	TPH (8015)	1145	ND

SCALE

0

FT

TRAVEL NOTES: CALLOUT: <u>N/A</u>	ONSITE: <u>5/31/01</u>
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Client:	Blagg / BP	Project #:	94034-010
Sample ID:	LF - 1	Date Reported:	06-04-01
Laboratory Number:	19948	Date Sampled:	05-31-01
Chain of Custody No:	8409	Date Received:	05-31-01
Sample Matrix:	Soil	Date Extracted:	06-01-01
Preservative:	Cool	Date Analyzed:	06-01-01
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

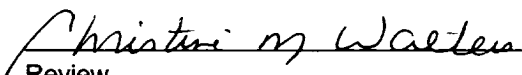
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.1

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: Heath, WD Lease A #3X Landfarm 5 Pt. Composite.


Analyst


Review

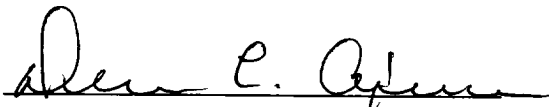
Client:	Blagg / BP	Project #:	94034-010
Sample ID:	LF - 2	Date Reported:	06-04-01
Laboratory Number:	19949	Date Sampled:	05-31-01
Chain of Custody No:	8409	Date Received:	05-31-01
Sample Matrix:	Soil	Date Extracted:	06-01-01
Preservative:	Cool	Date Analyzed:	06-01-01
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

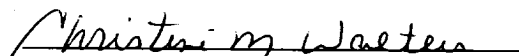
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.1

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: Heath, WD Lease A #3X Landfarm 5 Pt. Composite.


Analyst


Review

CHAIN OF CUSTODY RECORD

08409

Client / Project Name BLAGE / BP		Project Location HEATH, WD LEASE		ANALYSIS / PARAMETERS									
Sampler: NTV		Client No. 94034-010		No. of Containers		PH (8015)						Remarks ALL SAMPLES	
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix									
LF-1	5/31/01	0845	19946	SOIL									HEATH, WD A #13
LF-1	5/31/01	0945	19947	SOIL									HEATH, WD A #10
LF-1	5/31/01	1045	19948	SOIL									HEATH, WD A #3X
LF-2	5/31/01	1145	19949	SOIL									" "
LF-1	5/31/01	1245	19950	SOIL									HEATH, WD A #3A
LF-1	5/31/01	1345	19951	SOIL									HEATH, WD A #8E
Relinquished by: (Signature) [Signature]		Date 5/31/01		Time 1437		Received by: (Signature) [Signature]		Date 5/31/01		Time 1437			
Relinquished by: (Signature)						Received by: (Signature)							
Relinquished by: (Signature)						Received by: (Signature)							
Sample Receipt													
ENVIROTECH INC.													
5796 U.S. Highway 64 Farmington, New Mexico 87401 (505) 632-0615													
Received Intact													
Cool - Ice/Blue Ice													