

OK - Blow/comp 12/13/01
Combined excavation

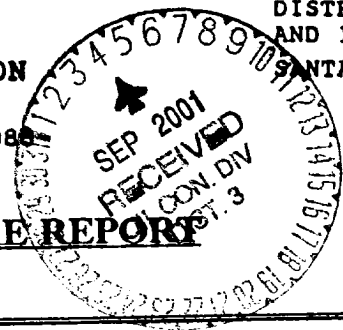
80118

District I
P.O. Box 1980, Hobbs, NM
District II
200 Drawer DD, Artesia, NM 88211
District III
1000 Rio Brazos Rd, Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

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

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



~~At the time of the excavation~~

PIT REMEDIATION AND CLOSURE REPORT

Operator: <u>Amoco Production Company</u>		Telephone: <u>(505) - 326-9200</u>
Address: <u>200 Amoco Court, Farmington, New Mexico 87401</u>		
Facility Or: <u>W.D. HEATH A7</u>		
Well Name		
Location: Unit or Qtr/Qtr Sec <u>J</u> Sec <u>8</u> T <u>2N</u> R <u>4W</u> County <u>SAN JUAN</u>		
Pit Type: Separator ☐ Dehydrator ☐ Other <u>BLOW / COMP - COMBINED</u>		
Land Type: BLM ☒ , State ☐ , Fee ☐ , Other ☐		
Pit Location: Pit dimensions: length <u>33'</u> , width <u>43'</u> , depth <u>16'</u>		
(Attach diagram) Reference: wellhead ☒ , other ☐		
Footage from reference: <u>53'</u>		
Direction from reference: <u>60</u> 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)	<u>10</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 200 feet (20 points) 200 feet to 1000 feet (10 points) Greater than 1000 feet (0 points)	<u>0</u>
RANKING SCORE (TOTAL POINTS):		<u>10</u>

Date Remediation Started: _____

Date Completed: 10/18/94Remediation Method: Excavation ☒
(Check all appropriate sections)Approx. cubic yards 840 700 ^{mv}Landfarmed ☒

Insitu Bioremediation _____

Other _____

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

General Description Of Remedial Action: _____

Excavation. ONLY 400 C.Y. ACCOUNTED FOR DURING LANDFARMING

SAMPLING. REMAINING 300 C.Y. NOT HAVE BEEN DEEMED CLEAN OVERBURDENED

SOIL & PLACED BACK INTO EXCAVATION. ^{mv}

AMOC letter correspondence

12-5-94

Ground Water 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 @ 16'Sample date 10/18/94Sample time 1155

Sample Results

Benzene(ppm) _____

Total BTEX(ppm) _____

Field headspace(ppm) 0.0TPH NO ppmGround Water Sample: Yes _____ No ☒ (If yes, attach sample results)HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST
OF MY KNOWLEDGE AND BELIEFDATE 10/18/94

SIGNATURE

B. ShawPRINTED NAME
AND TITLEBuddy D. Shaw
Environmental Coordinator

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>80118</u> C.O.C. NO: _____
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FIELD REPORT: CLOSURE VERIFICATION	PAGE No: <u>1</u> of <u>1</u>
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LOCATION: NAME: <u>W.D. HEATH</u> WELL #: <u>A7</u> PIT: <u>Blow/Compr.</u>	DATE STARTED: <u>10/1/94</u> DATE FINISHED: <u>10-18-94</u>
QUAD/UNIT: <u>J</u> SEC: <u>8</u> TWP: <u>29N</u> RNG: <u>9W</u> PM: <u>NM</u> CNTY: <u>JS</u> ST: <u>NM</u>	ENVIRONMENTAL SPECIALIST: <u>NV</u>
QTR/FOOTAGE: <u>NW1/4 SE1/4</u> CONTRACTOR: <u>P. VELASQUEZ</u>	

EXCAVATION APPROX. 33 FT. x 43 FT. x 16 FT. DEEP. CUBIC YARDAGE: 840700³

DISPOSAL FACILITY: ON-SITE REMEDIATION METHOD: LANDFORMED

LAND USE: RANGE LEASE: SF-076337 FORMATION: BPC

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 53 FT. N60W FROM WELLHEAD.

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

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

SOIL AND EXCAVATION DESCRIPTION:

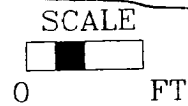
CHECK ONE:

☒ PIT ABANDONED

☐ STEEL TANK INSTALLED

OK. YELL. ORANGE TO MOD. YELL. BROWN SAND TO SILTY SAND (CAUCHE)
NON-COHESIVE, SLIGHTLY MOIST, FIRM, STRONG HC 00-R IN EASTERN MOST OVM
SAMPLES (#S 2, 7, & 8). EXCAVATION TERMINATED BY EASTERN SIDEWALLS
DUE TO UNDERGROUND PIPING ADJACENT TO COMPR. PIT AREA.

CLOSED DUE TO
UNDERGROUND PIPING
ADJACENT TO
EXCAVATION



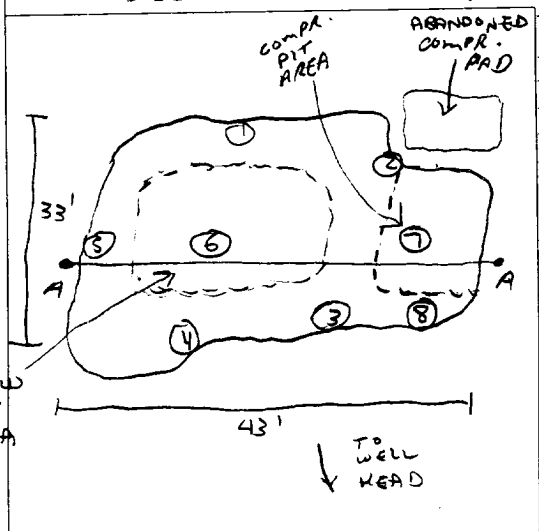
FIELD 418.1 CALCULATIONS

TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
1155	6 @ 16'	TPH-1201	5	20	1-1	5	ND

PIT PERIMETER

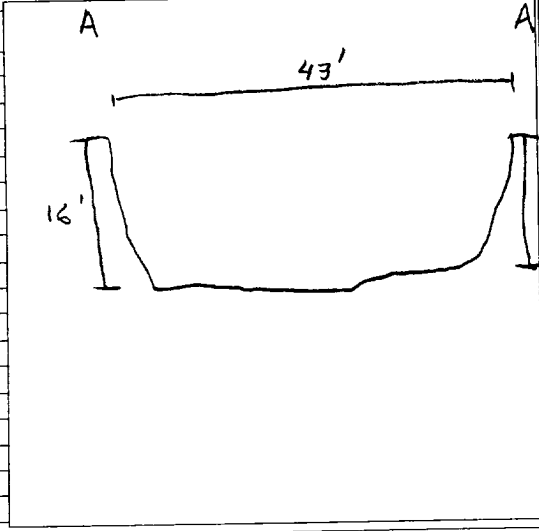
OVM RESULTS

PIT PROFILE



SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 @ 12'	0.0
2 @ 14'	32.0
3 @ 13'	23.1
4 @ 12'	14.7
5 @ 12'	0.0
6 @ 16'	0.0
7 @ 15'	1376
8 @ 13'	1059

SAMPLE ID	ANALYSIS	TIME



TRAVEL NOTES: CALLOUT: 10/17/94 ONSITE: 10/18/94

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:	6 @ 16'	Date Analyzed:	10-18-94
Project Location:	W.D. Heath A 7	Date Reported:	10-18-94
Laboratory Number:	TPH-1201	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
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Total Recoverable Petroleum Hydrocarbons	ND	20

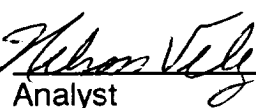
ND = Not Detectable at stated detection limits.

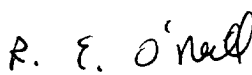
QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	-----	-----	-----
	1024	1044	1.93

*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: Blow/Compressor Pit - B0118


Analyst


Review

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>B0118</u> C.D.C. NO: _____
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FIELD REPORT: CLOSURE VERIFICATION	PAGE No: <u>1</u> of <u>1</u>
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LOCATION: NAME: <u>W.D. HEATH</u> WELL #: <u>A7</u> PIT: <u>BLOW</u> QUAD/UNIT: <u>J</u> SEC: <u>8</u> TWP: <u>29N</u> RNG: <u>9W</u> PM: <u>Nm</u> CNTY: <u>ST</u> ST: <u>NM</u> QTR/FOOTAGE: <u>NW/4 SE/4</u> CONTRACTOR: <u>P. VELASQUEZ</u>	DATE STARTED: <u>10/12/94</u> DATE FINISHED: _____ ENVIRONMENTAL SPECIALIST: <u>NV</u>
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EXCAVATION APPROX. 19 FT. x 12 FT. x 6 FT. DEEP. CUBIC YARDAGE: 20

DISPOSAL FACILITY: ON-SITE REMEDIATION METHOD: LANDFARMED

LAND USE: RANGE LEASE: SF - 076337 FORMATION: BPC

FIELD NOTES & REMARKS:	PIT LOCATED APPROXIMATELY <u>47</u> FT. <u>N77W</u> FROM WELLHEAD. 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
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CHECK ONE:
☒ PIT ABANDONED
☐ STEEL TANK INSTALLED

SOIL AND EXCAVATION DESCRIPTION:

OK. YEL. ORANGE SAND, NON-COHESIVE, SLIGHTLY MOIST, FIRM, SLIGHT H/C ODOR IN OUM SAMPLE.

PIT EXCAVATED INTO COMPRESSOR PLT - COMBINED

SCALE

0 FT

FIELD 418.1 CALCULATIONS

TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
0915	① @ 9'	TPH-1186	5	20	1:1	60	240

PIT PERIMETER

OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 @ 9'	286
2	
3	
4	
5	

PIT PROFILE

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME

TRAVEL NOTES: CALLOUT: 10/11/94 ONSITE: 10/12/94

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
Sample ID: 1 @ 9'
Project Location: W. D. Heath A 7
Laboratory Number: TPH-1186

Project #:
Date Analyzed: 10-12-94
Date Reported: 10-12-94
Sample Matrix: Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	240	20

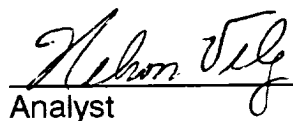
ND = Not Detectable at stated detection limits.

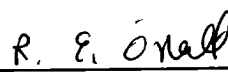
QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	1584	1372	14.34

*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: Blow Pit - B0118


Analyst


Review

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>80118</u> C.O.C. NO: _____
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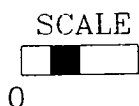
FIELD REPORT: CLOSURE VERIFICATION	PAGE No: <u>1</u> of <u>1</u>
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LOCATION: NAME: <u>W.D. HEATH</u> WELL #: <u>A7</u> PIT: <u>CONPR.</u> QUAD/UNIT: <u>J</u> SEC: <u>8</u> TWP: <u>29N</u> RNG: <u>9W</u> PM: <u>NM</u> CNTY: <u>SJ</u> ST: <u>NM</u> QTR/FOOTAGE: <u>NW/4 SE/4</u> CONTRACTOR: <u>P. VELASQUEZ</u>	DATE STARTED: <u>10/12/94</u> DATE FINISHED: _____ ENVIRONMENTAL SPECIALIST: <u>NV</u>
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EXCAVATION APPROX. <u>9</u> FT. x <u>14</u> FT. x <u>11</u> FT. DEEP.	CUBIC YARDAGE: <u>37</u>	DISPOSAL FACILITY: <u>ON-SITE</u>
LAND USE: <u>RANGE</u>	LEASE: <u>SF-076337</u>	FORMATION: <u>BPC</u>

FIELD NOTES & REMARKS:	PIT LOCATED APPROXIMATELY <u>46</u> FT. <u>N35W</u> FROM WELLHEAD. DEPTH TO GROUNDWATER: <u><100'</u> NEAREST WATER SOURCE: <u>>1000'</u> NEAREST SURFACE WATER: <u>>1000'</u> NMCD RANKING SCORE: <u>10</u> NMCD TPH CLOSURE STD: <u>1.000</u> PPM
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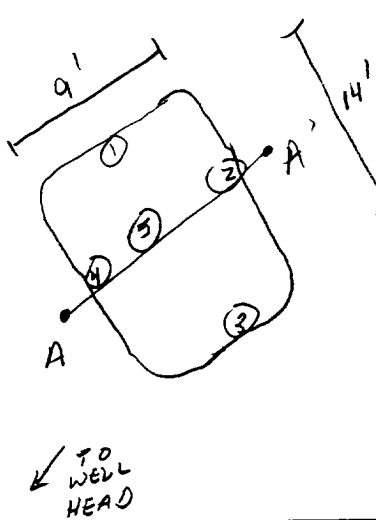
SOIL AND EXCAVATION DESCRIPTION: <u>OK. YELL. ORANGE TO BROWN SAND TO SILTY SAND (CAUICHE) NON-COHESIVE, SLIGHTLY MOIST, FIRM, STRONG HC ODOR IN ALL OVM SAMPLES.</u> <u>PIT EXCAVATED INTO GLOW PIT - COMBINED</u>	CHECK ONE: ☒ PIT ABANDONED ☐ STEEL TANK INSTALLED
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FIELD 418.1 CALCULATIONS

TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
0935	⑤ @ 11'	TPH-1187	5	20	10:1	203	8,120

PIT PERIMETER

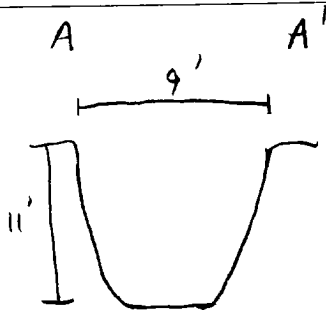


OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 @ 9'	1180
2 @ 8'	1103
3 @ 8'	1233
4 @ 8'	91.5
5 @ 11'	1360

SAMPLE ID	ANALYSIS	TIME

PIT PROFILE



TRAVEL NOTES:	CALLOUT: <u>10/11/94</u>	ONSITE: <u>10/12/94</u>
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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
Sample ID: 5 @ 11'
Project Location: W. D. Heath A 7
Laboratory Number: TPH-1187

Project #:
Date Analyzed: 10-12-94
Date Reported: 10-12-94
Sample Matrix: Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	8,100	200

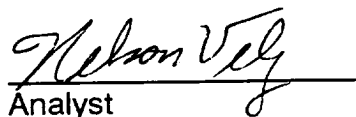
ND = Not Detectable at stated detection limits.

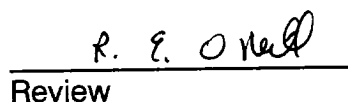
QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	1584	1372	14.34

*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: Compressor Pit - B0118


Analyst


Review

CLIENT: BPBLAGG ENGINEERING, INC.
P.O. BOX 87, BLOOMFIELD, NM 87413
(505) 632-1199LOCATION NO: B0118C.D.C. NO: 8412

FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: NAME: HEATH WD A WELL #: 7 PITS: BLOW/COMPR.DATE STARTED: 6/5/01
DATE FINISHED: _____QUAD/UNIT: J SEC: 8 TWP: 29N RNG: 9W PM: Nm CNTY: ST ST: NmENVIRONMENTAL
SPECIALIST: NVQTR/FOOTAGE: NW/SE CONTRACTOR: P+S

SOIL REMEDIATION:

REMEDICATION SYSTEM: LANDFARMAPPROX. CUBIC YARDAGE: 400LAND USE: RANGE - BLM SP - 076337LIFT DEPTH (ft): 1-1.5

FIELD NOTES & REMARKS:

DEPTH TO GROUNDWATER: <100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'
NMOC D RANKING SCORE: 10 NMOC D TPH CLOSURE STD: 1000 PPM P.C. - 10/18/94

OK. YELL. ORANGE SAND, NON COHESIVE, SLIGHTLY MOIST, LOOSE TO FIRM, NO APPARENT DISCOLORATION/STAINING OBSERVED OR HC ODOR DETECTED @ ANY OF THE SAMPLE PTS. OR OVM SAMPLE, SAMPLE DEPTHS RANGED FROM 6" - 12", COLLECTED 5 PT. COMPOSITE SAMPLE FOR LAB ANALYSIS.

CLOSED

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. 52.3 ppm
TIME: 0805 am/pm 6/5/01

OVM RESULTS

LAB SAMPLES

SAMPLE ID	FIELD HEADSPACE PID (ppm)	SAMPLE ID	ANALYSIS	TIME	RESULTS
LF-1	0.0	LF-1	TPH (8015)	1130	ND

SCALE


0 FTTRAVEL NOTES: CALLOUT: N/A ONSITE: 6/5/01

revised: 03/12/01

bei1006.skd

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	Blagg / BP	Project #:	94034-010
Sample ID:	LF - 1	Date Reported:	06-07-01
Laboratory Number:	19984	Date Sampled:	06-05-01
Chain of Custody No:	8412	Date Received:	06-05-01
Sample Matrix:	Soil	Date Extracted:	06-06-01
Preservative:	Cool	Date Analyzed:	06-07-01
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

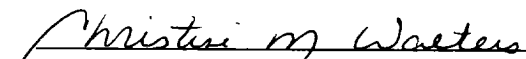
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.1

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 #7 Landfarm 5 Pt. Composite.**


Analyst


Review

CHAIN OF CUSTODY RECORD

08412

Client / Project Name		Project Location		ANALYSIS / PARAMETERS																					
BLAGG / BFP		HEATH WD LEASE																							
Sampler: NTV		Client No. 94034-010																							
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TPH (gals)							Remarks												
LF-1	6/5/01	0830	19981	SOIL	1	✓							ALL SAMPLES PRESERVED COOL												
LF-2	6/5/01	0930	19982	SOIL	1	✓							HEATH WD A #5												
LF-3	6/5/01	1030	19983	SOIL	1	✓							" " "												
LF-1	6/5/01	1130	19984	SOIL	1	✓							HEATH WD A #7												
LF-1	6/5/01	1230	19985	SOIL	1	✓							HEATH WD A #14												
													ALL SAMPLES												
													5 PT. COMPOSITE												
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time															
Nelson V. J.		6/5/01		1345		L. R. Ophium		6-5-01		1345															
Relinquished by: (Signature)						Received by: (Signature)																			
Relinquished by: (Signature)						Received by: (Signature)																			
ENVIROTECH INC. 5796 U.S. Highway 64 Farmington, New Mexico 87401 (505) 632-0615																									
Sample Receipt																									
<table border="1"> <tr> <td>Y</td> <td>N</td> <td>N/A</td> </tr> <tr> <td></td> <td>✓</td> <td></td> </tr> <tr> <td colspan="3">Received Intact</td> </tr> <tr> <td colspan="3">Cool - Ice/Blue Ice</td> </tr> </table>														Y	N	N/A		✓		Received Intact			Cool - Ice/Blue Ice		
Y	N	N/A																							
	✓																								
Received Intact																									
Cool - Ice/Blue Ice																									