

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

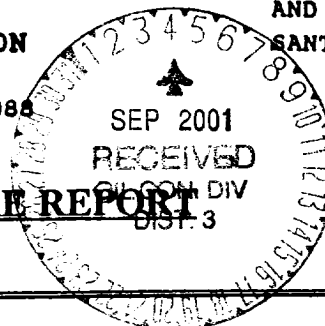
Sep - OK - 12/17/01
Prod - OK

State of New Mexico
Energy, Minerals and Natural Resources Department

B0029

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



PIT REMEDIATION AND CLOSURE REPORT

Operator: Amoco Production Company Telephone: (505) - 326-9200
Address: 200 Amoco Court, Farmington, New Mexico 87401
Facility Or: McCulley LS 3
Well Name
Location: Unit or Qtr/Qtr Sec L Sec 24 T 18N R 9W County SAN JUAN
Pit Type: Separator ☒ Dehydrator ☐ Other ☐
Land Type: BLM ☒ State ☐ Fee ☐ Other ☐

Pit Location: Pit dimensions: length 16', width 11', depth 6'
(Attach diagram)
Reference: wellhead ☒, other ☐
Footage from reference: 128'
Direction from reference: 68 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) 0
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) 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): 0

Date Remediation Started: _____ Date Completed: 7/20/94

Remediation Method: Excavation ☒ Approx. cubic yards 340^{cu}
(Check all appropriate sections) Landfarmed ☒ Insitu Bioremediation _____
Other CLOSE AS IS.^{cu}

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

General Description Of Remedial Action: _____
Excavation, BEDROCK BOTTOM - NO SOIL WAS APPARENTLY REMOVED
FROM PIT. ^{cu}

Dmcd letter correspondence 12-13-94
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 6'
Sample date 7/20/94 Sample time 1210

Sample Results
Benzene(ppm) 0.036
Total BTEX(ppm) 13.774
Field headspace(ppm) 786
TPH 4340 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 7/22/94
SIGNATURE B. Shaw PRINTED NAME AND TITLE Buddy D. Shaw
ENVIRONMENTAL COORDINATOR

RESULTS GIVEN TO BOB MCCOY 7/22/94 91V

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>80029</u> C.O.C. NO: <u>1671</u>
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FIELD REPORT: CLOSURE VERIFICATION	PAGE No: <u>1</u> of <u>1</u>
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LOCATION: NAME: <u>McCulley</u> LS WELL #: <u>3</u> PIT: <u>SEP</u>	DATE STARTED: <u>7/20/94</u>
^{nw1/4} QUAD/UNIT: <u>L</u> SEC: <u>24</u> TWP: <u>28N</u> RNG: <u>4W</u> PM: <u>pm</u> CNTY: <u>JS</u> ST: <u>nm</u>	DATE FINISHED: <u>7/20/94</u>
QTR/FOOTAGE: <u>1950' FSL/1020' FWL</u> CONTRACTOR: <u>P. VELASQUEZ</u>	ENVIRONMENTAL SPECIALIST: <u>NV</u>

SOIL REMEDIATION: EXCAVATION APPROX. 16 FT. x 19 FT. x 6 FT. DEEP
DISPOSAL FACILITY: LANDFILL ^{SIV} ~~ON-SITE~~ ^{NO CLOSE} AS IS CUBIC YARDAGE: 390 ^{YR}
LAND USE: RANGE LEASE: Nm-04208

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 128 FEET 568W FROM WELLHEAD.
DEPTH TO GROUNDWATER: >100 NEAREST WATER SOURCE: 21000 NEAREST SURFACE WATER: 21000
NMOC RANKING SCORE: 0 NMOC TPH CLOSURE STD: 5000 PPM FORMATION: APC/mv

SOIL AND EXCAVATION DESCRIPTION: BEDROCK BOTTOM SIDEWALLS CONSIST OF FRACTURED SHALY MATERIAL & CLAY. STRONG POOR IN BOTTOM OUM SAMPLE.

15

BEDROCK
BOTTOM

9/5
CLOSED

FIELD 418.1 CALCULATIONS

SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
5e6'	TPH-1035	10	20	10:1	217	4340

SCALE

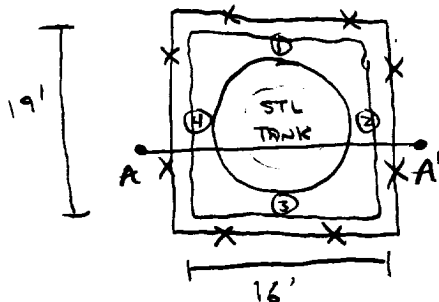
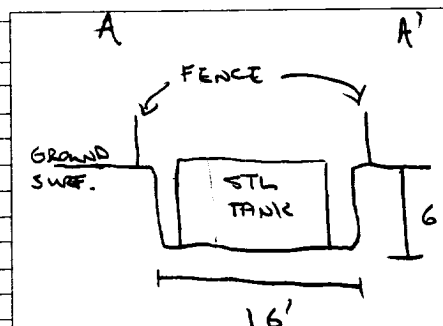


0 FT

FT
PIT PERIMETER N

OVM RESULTS

PIT PROFILE

[illegible]

TRAVEL NOTES: CALLOUT: 7/19/94 ONSITE: 7/20/94

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: 5 @ 6'
Project Location: McCulley LS 3
Laboratory Number: TPH-1035

Project #:
Date Analyzed: 7-20-94
Date Reported: 7-20-94
Sample Matrix: Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	4,300	100

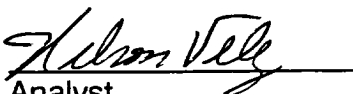
ND = Not Detectable at stated detection limits.

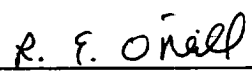
QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	1620	1520	6.37

*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: Separator Pit - B0029


Analyst


Review



ON SITE TECHNOLOGIES, LTD.

AROMATIC VOLATILE ORGANICS

Attn: *Nelson Velez*
Company: *Blagg Engineering*
Address: *P.O. Box 87*
City, State: *Bloomfield, NM 87413*

Date: *7/21/94*
Lab ID: *1671*
Sample ID: *2048*
Job No. *2-1000*

Project Name: *McCulley LS 3*
Project Location: *Separator Pit - 5 @ 6'*
Sampled by: *NV* Date: *7/20/94*
Analyzed by: *DLA* Date: *7/21/94*
Sample Matrix: *Soil*

Time: *12:10*

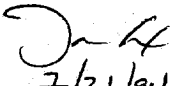
Aromatic Volatile Organics

Component	**Measured Concentration ug/kg
<i>Benzene</i>	<i>36</i>
<i>Toluene</i>	<i>1,429</i>
<i>Ethylbenzene</i>	<i>276</i>
<i>m,p-Xylene</i>	<i>9,246</i>
<i>o-Xylene</i>	<i>2,788</i>
	<i>TOTAL 13,774 ug/kg</i>

ND - Not Detectable

** - Method Detection Limit, 2 ug/kg

**Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by
Gas Chromatography**

Approved by: 

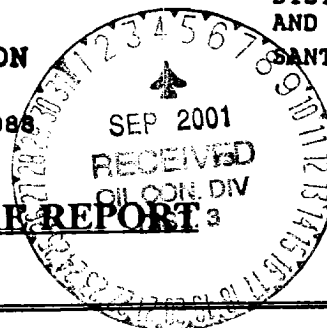
Date: *7/21/94*

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PIT REMEDIATION AND CLOSURE REPORT

Operator: Amoco Production Company Telephone: (505) - 326-9200
Address: 200 Amoco Court, Farmington, New Mexico 87401
Facility Or: McCurvey LS 3
Well Name
Location: Unit or Qtr/Qtr Sec L Sec 24 T 28N R 9W County SAN JUAN
Pit Type: Separator Dehydrator Other PRODUCTION TANK
Land Type: BLM X, State , Fee , Other

Pit Location: Pit dimensions: length 7', width 17', depth 9'
(Attach diagram) Reference: wellhead X, other
Footage from reference: 93'
Direction from reference: 72 Degrees East North X
of
X 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) 0

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): 0

Date Remediation Started: _____ Date Completed: 7/20/94

Remediation Method: Excavation ☒ Approx. cubic yards 35 26⁹⁵
(Check all appropriate sections) Landfarmed ☒ Insitu Bioremediation _____
Other _____

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

General Description Of Remedial Action: _____
Excavation. BEDROCK BOTTOM.

nmocd letter correspondence 12-13-96

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 9'

Sample date 7/20/94 Sample time 1330

Sample Results

Benzene(ppm) _____

Total BTEX(ppm) _____

Field headspace(ppm) 1.3

TPH 76 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 7/20/94

SIGNATURE B. Shaw

PRINTED NAME
AND TITLE

Buddy D. Shaw
Environmental Coordinator

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>80029</u> C.D.C. NO: _____																																			
FIELD REPORT: CLOSURE VERIFICATION		PAGE No: <u>1</u> of <u>1</u>																																			
LOCATION: NAME: <u>McCulley LS</u> WELL #: <u>3</u> PIT: <u>PROD.</u> QUAD/UNIT: <u>L</u> SEC: <u>24</u> TWP: <u>28N</u> RNG: <u>9W</u> PM: <u>NM</u> CNTY: <u>ST</u> ST: <u>NM</u> QTR/FOOTAGE: <u>1950' FSL / 1020' FWL</u> CONTRACTOR: <u>P. VELASQUEZ</u>		DATE STARTED: <u>7/20/94</u> DATE FINISHED: <u>7/20/94</u> ENVIRONMENTAL SPECIALIST: <u>NV</u>																																			
SOIL REMEDIATION: EXCAVATION APPROX. <u>7</u> FT. x <u>17</u> FT. x <u>9</u> FT. DEEP. DISPOSAL FACILITY: <u>LANDFARMED ON-SITE</u> CUBIC YARDAGE: <u>2035</u> cu yd LAND USE: <u>RANGE</u> LEASE: <u>NM-04208</u>																																					
FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY <u>93</u> FEET <u>N72W</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>0</u> NMCD TPH CLOSURE STD: <u>5000</u> PPM FORMATION: <u>APC/mv</u>																																					
SOIL AND EXCAVATION DESCRIPTION: <u>ACTIVE GLAY TO OR. YELL. BROWN SAND, NON-COHESIVE, SLIGHTLY MOIST, NO APPARENT HC ODR. BOTTOM CONSIST OF FRACTURE SHALE & HARD SANDSTONE BEDROCK.</u>																																					
<u>215</u> BEDROCK BOTTOM <u>915</u> CLOSED SCALE <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <caption>FIELD 418.1 CALCULATIONS</caption> <thead> <tr> <th>SAMPLE I.D.</th> <th>LAB No:</th> <th>WEIGHT (g)</th> <th>mL. FREON</th> <th>DILUTION</th> <th>READING</th> <th>CALC. ppm</th> </tr> </thead> <tbody> <tr> <td><u>⑤ 29'</u></td> <td><u>TPH-1036</u></td> <td><u>10</u></td> <td><u>20</u></td> <td><u>1:1</u></td> <td><u>38</u></td> <td><u>76</u></td> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>			SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm	<u>⑤ 29'</u>	<u>TPH-1036</u>	<u>10</u>	<u>20</u>	<u>1:1</u>	<u>38</u>	<u>76</u>																					
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PIT PERIMETER ↑ N	OVM RESULTS <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>SAMPLE ID</th> <th>FIELD HEADSPACE PID (ppm)</th> </tr> </thead> <tbody> <tr><td><u>1 2 6'</u></td><td><u>1.4</u></td></tr> <tr><td><u>2 2 6'</u></td><td><u>1.1</u></td></tr> <tr><td><u>3 2 6'</u></td><td><u>1.1</u></td></tr> <tr><td><u>4 2 7'</u></td><td><u>1.7</u></td></tr> <tr><td><u>5 2 9'</u></td><td><u>1.3</u></td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </tbody> </table> LAB SAMPLES <u>⑤ 29' TPH (418.1) 915</u>	SAMPLE ID	FIELD HEADSPACE PID (ppm)	<u>1 2 6'</u>	<u>1.4</u>	<u>2 2 6'</u>	<u>1.1</u>	<u>3 2 6'</u>	<u>1.1</u>	<u>4 2 7'</u>	<u>1.7</u>	<u>5 2 9'</u>	<u>1.3</u>									PIT PROFILE A A'															
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TRAVEL NOTES: CALLOUT: <u>7/19/94</u> ONSITE: <u>7/20/94</u>																																					

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 @ 9'
Project Location: McCulley LS 3
Laboratory Number: TPH-1036

Project #:
Date Analyzed: 7-20-94
Date Reported: 7-20-94
Sample Matrix: Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	76	10

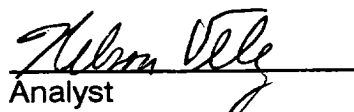
ND = Not Detectable at stated detection limits.

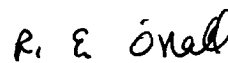
QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	1620	1520	6.37

*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: Production Tank Pit - B0029


Analyst


Review



1671

Page 1 of 1

657 W. Maple ■ P. O. Box 2606 ■ Farmington, NM 87499
LAB: (505) 325-5667 ■ FAX: (505) 325-6256

80029

[illegible]

Distribution:	White – On Site	Yellow – LAB	Pink – Sampler	Goldenrod – Client
---------------	-----------------	--------------	----------------	--------------------

CLIENT: <u>BP</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>80029</u> C.O.C. NO: <u>8423</u>
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FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: NAME: <u>McClurey</u> <u>LS</u> WELL #: <u>3</u> PITS: <u>PROD. TANK, SEP.</u> QUAD/UNIT: <u>L</u> SEC: <u>24</u> TWP: <u>28N</u> RNG: <u>9W</u> PM: <u>NM</u> CNTY: <u>ST</u> ST: <u>NM</u> QTR/FOOTAGE: <u>NW/4</u> CONTRACTOR: <u>P&S</u>	DATE STARTED: <u>6/21/01</u> DATE FINISHED: _____ ENVIRONMENTAL SPECIALIST: <u>NV</u>
--	---

SOIL REMEDIATION:

REMEDIATION SYSTEM: LANDFARM APPROX. CUBIC YARDAGE: 35
 LAND USE: RANGE - BLM NM-04208 LIFT DEPTH (ft): 7-15

FIELD NOTES & REMARKS:

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

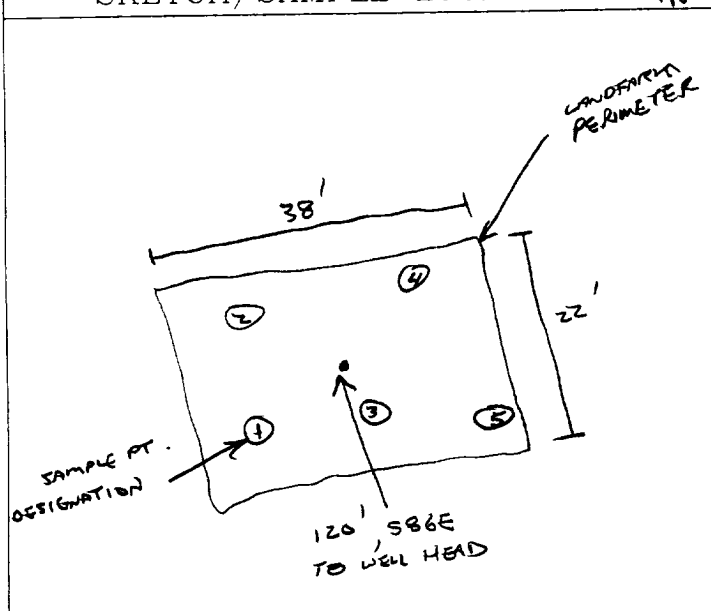
PALE YEL. BROWN TO OLIVE GRAY SILTY SAND WITH SHALE FRAGMENTS, NON COHESIVE, DRY TO SLIGHTLY MOIST, FIRM, NO APPARENT DISCOLORATION/STAINING OBSERVED OR HC ODOR DETECTED @ ANY OF THE SAMPLE PTS. OR DUM SAMPLE, SAMPLE DEPTHS RANGED FROM 8" - 20", COLLECTED 5 PT. COMPOSITE SAMPLE FOR LAB ANALYSIS.

CLOSED

FIELD 418.1 CALCULATIONS

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

SKETCH/SAMPLE LOCATIONS N



OVM CALIB. READ. 52.7 ppm
 TIME: 0815 @ pm 6/20/01

OVM RESULTS

LAB SAMPLES

SAMPLE ID	FIELD HEADSPACE PID (ppm)	SAMPLE ID	ANALYSIS	TIME	RESULTS
LF-1	1.3	LF-1	TPH (8015)	0945	ND

SCALE



TRAVEL NOTES: CALLOUT: N/A ONSITE: 6/21/01

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

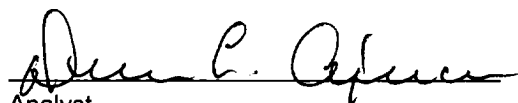
Client:	Blagg / BP	Project #:	94034-010
Sample ID:	LF - 1	Date Reported:	06-25-01
Laboratory Number:	20116	Date Sampled:	06-21-01
Chain of Custody No:	8423	Date Received:	06-21-01
Sample Matrix:	Soil	Date Extracted:	06-24-01
Preservative:	Cool	Date Analyzed:	06-25-01
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

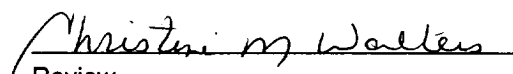
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.1

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: McCulley LS #3 Landfarm. 5 Pt. Composite Sample.


Analyst


Review

CHAIN OF CUSTODY RECORD

08423

Client / Project Name		Project Location		ANALYSIS / PARAMETERS																		
BAGG / BP		McGUEY LS LEASE																				
Sampler: NJV		Client No. 94034-010																				
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TPH (BOS)							Remarks									
LF-1	6/21/01	0830	20115	SOIL	1	✓							PRESERVED COOL									
LF-1	6/21/01	0945	20116	SOIL	1	✓							McGUEY LS #8									
													McGUEY LS #3									
													5 PT. COMPOSITE									
													SAMPLES									
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time												
[Signature]		6/21/01		1409		[Signature]		6-21-01		1409												
Relinquished by: (Signature)						Received by: (Signature)																
[Signature]						Received by: (Signature)																
Relinquished by: (Signature)						Received by: (Signature)																
[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>✓</td> <td></td> <td></td> </tr> </table>														Y	N	N/A	✓			✓		
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