

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

Form C-144  
June 1, 2004

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

For drilling and production facilities, submit to  
appropriate NMOCD District Office  
For downstream facilities, submit to Santa Fe  
office

Pit or Below-Grade Tank Registration or Closure

Is pit or below-grade tank covered by a "general plan"? Yes ☒ No ☐

Type of action: Registration of a pit or below-grade tank ☐ Closure of a pit or below-grade tank ☒

Operator BP America Production Company Telephone (505)326-9200 e-mail address: \_\_\_\_\_  
Address 200 Energy Ct, Farmington, NM 87401  
Facility or well name: Mudge LS #7A API #: 3004523064 U/L or Qtr/Qtr C Sec 23 T 31N R 11W  
County San Juan Latitude \_\_\_\_\_ Longitude \_\_\_\_\_ NAD. 1927 ☐ 1983 ☐  
Surface Owner: Federal ☒ State ☐ Private ☐ Indian ☐

Pit

Type: Drilling ☐ Production ☒ Disposal ☐

Workover ☐ Emergency ☐

Lined ☐ Unlined ☒

Liner type Synthetic ☐ Thickness \_\_\_\_\_ mil Clay ☐

Pit Volume \_\_\_\_\_ bbl

Below-grade tank

Volume: \_\_\_\_\_ bbl Type of fluid: \_\_\_\_\_

Construction material: \_\_\_\_\_

Double-walled, with leak detection? Yes ☐ If not, explain why not. \_\_\_\_\_

Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)	Less than 50 feet	(20 points)	
	50 feet or more, but less than 100 feet	(10 points)	0
	100 feet or more	(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)	
	No	(0 points)	0
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	Less than 200 feet	(20 points)	
	200 feet or more, but less than 1000 feet	(10 points)	0
	1000 feet or more	(0 points)	
Ranking Score (Total Points)			0

If this is a pit closure: (1) Attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location: (check the onsite box if you are burying in place) onsite ☒ offsite ☐ If offsite, name of facility \_\_\_\_\_. (3) Attach a general description of remedial action taken including remediation start date and end date (4) Groundwater encountered: No ☒ Yes ☐ If yes, show depth below ground surface \_\_\_\_\_ ft. and attach sample results (5) Attach soil sample results and a diagram of sample locations and excavations.

Additional Comments

See Attached Documentation

RCVD JUN13'07  
OIL CONS. DIV.

DIST. 3

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☒, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.

Date: 11/01/2005

Printed Name/Title Jeffrey C. Blagg, Agent Signature Jeffrey C. Blagg

Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations

Approval: Deputy Oil & Gas Inspector,  
Printed Name/Title District #3 Signature [Signature] Date AUG 10 2007

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>80775</u> C.D.C NO: <u>7325</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>mudge</u> <u>LS</u> WELL #: <u>7A</u> PIT: <u>ABAN. SEP.</u> QUAD/UNIT: <u>C</u> SEC: <u>23</u> TWP: <u>31N</u> RNG: <u>11W</u> PM: <u>NM</u> CNTY: <u>ST NM</u> QTR/FOOTAGE: <u>1140'N/1645'W</u> NEW CONTRACTOR: <u>FLINT</u>	DATE STARTED <u>7/27/00</u> DATE FINISHED _____ ENVIRONMENTAL SPECIALIST <u>NV</u>
--	--

EXCAVATION APPROX. <u>12</u> FT x <u>13</u> FT. x <u>8</u> FT. DEEP. CUBIC YARDAGE <u>40</u>
DISPOSAL FACILITY: <u>ON-SITE</u> REMEDIATION METHOD: <u>LANDFARM</u>
LAND USE: <u>RANGE</u> LEASE: <u>CA 14080012035</u> FORMATION: <u>MU</u>

FIELD NOTES & REMARKS:	PIT LOCATED APPROXIMATELY <u>137</u> FT. <u>N33W</u> FROM WELL-HEAD DEPTH TO GROUNDWATER: <u>&gt;100'</u> NEAREST WATER SOURCE: <u>&gt;1000'</u> NEAREST SURFACE WATER: <u>&gt;1000'</u> NMDCD RANKING SCORE: <u>0</u> NMDCD TPH CLOSURE STD: <u>5000</u> PPM SOIL AND EXCAVATION DESCRIPTION:
------------------------	---

SIDEWALLS - PALE YELL. BROWN TO LT. OLIVE GRAY SILTY SAND, SLIGHTLY COHESIVE, SLIGHTLY MOIST, FIRM TO DENSE, HC ODOOR DETECTED IN ALL OVM SAMPLES.

BOTTOM - BEDROCK (SANDSTONE), PALE YELL. BROWN TO LT. OLIVE GRAY IN COLOR, VERY HARD, HC ODOOR DETECTED IN OVM SAMPLE.

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

**FIELD 418.1 CALCULATIONS**

TIME	SAMPLE ID.	LAB No.	WEIGHT (g)	ML FREON	DILUTION	READING	CALC ppm
1405							

**PIT PERIMETER**

**OVM RESULTS**

SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 @ 4'	68.8
2 @ 4'	39.4
3 @ 4'	144.4
4 @ 4'	54.5
5 @ 8'	93.2

**LAB SAMPLES**

SAMPLE ID	ANALYSIS	TIME
2 @ 4'	TOH (9015)	1405
"	STX (9021)	"

BOTH PASSED

**PIT PROFILE**

 TRAVEL NOTES: CALLOUT: 7/26/00 - AFTER. ONSITE: 7/27/00 - AFTER.

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

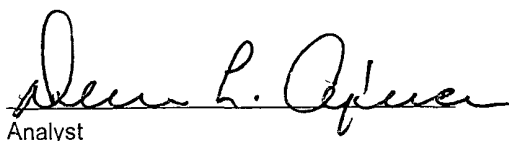
Client:	Blagg / BP-Amoco	Project #:	403410
Sample ID:	2 @ 4'	Date Reported:	07-31-00
Laboratory Number:	H834	Date Sampled:	07-27-00
Chain of Custody No:	7325	Date Received:	07-28-00
Sample Matrix:	Soil	Date Extracted:	07-31-00
Preservative:	Cool	Date Analyzed:	07-31-00
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

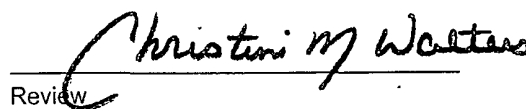
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	0.4	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	0.4	0.1

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: **Mudge LS # 7A Abandoned Separator Pit.**

  
Analyst

  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / BP Amoco	Project #:	403410
Sample ID:	2 @ 4'	Date Reported:	07-31-00
Laboratory Number:	H834	Date Sampled:	07-27-00
Chain of Custody:	7325	Date Received:	07-28-00
Sample Matrix:	Soil	Date Analyzed:	07-31-00
Preservative:	Cool	Date Extracted:	07-31-00
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	28.1	1.8
Toluene	74.2	1.7
Ethylbenzene	45.0	1.5
p,m-Xylene	129	2.2
o-Xylene	36.8	1.0
Total BTEX	313	

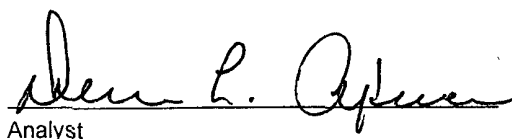
ND - Parameter not detected at the stated detection limit.

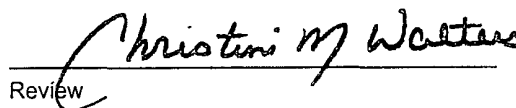
Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	100 %
	Bromofluorobenzene	100 %

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: Mudge LS # 7A Abandoned Separator Pit.

  
Analyst

  
Review

CLIENT: BPBLAGG ENGINEERING, INC.  
P.O. BOX 87, BLOOMFIELD, NM 87413  
(505) 632-1199LOCATION NO: B0775C.O.C. NO: 14744

## FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: NAME: MUDGE LS WELL #: 7A PITS: \_\_\_\_\_  
QUAD/UNIT: C SEC: 23 TWP: 31N RNG: 11W PM: NM CNTY: ST ST: NM  
QTR/FOOTAGE: \_\_\_\_\_ NE/1NW CONTRACTOR: \_\_\_\_\_DATE STARTED: 2/27/07  
DATE FINISHED: \_\_\_\_\_ENVIRONMENTAL  
SPECIALIST: NV

## SOIL REMEDIATION:

40

REMEDICATION SYSTEM: LANDFARM

APPROX. CUBIC YARDAGE: \_\_\_\_\_

LAND USE: RANGE - BLMLIFT DEPTH (ft): N/A

## FIELD NOTES &amp; REMARKS:

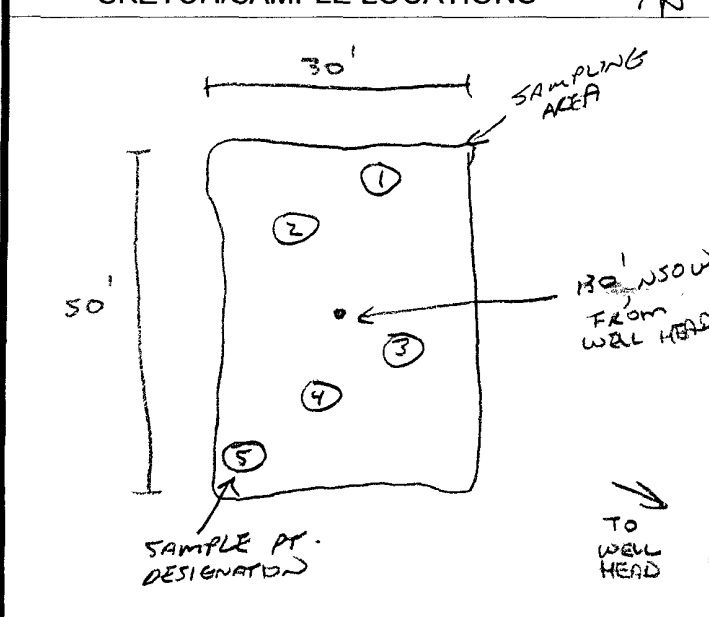
DEPTH TO GROUNDWATER: >100' NEAREST SURFACE WATER >1,000'NEAREST WATER SOURCE: >1,000' NMOCD RANKING SCORE: 0 NMOCD TPH CLOSURE STD: 5,000 PPMSOIL TYPE: SAND / SILTY SAND / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER \_\_\_\_\_SOIL COLOR: BLACKISH RED TO GRAYISH OLIVECOHESION (ALL OTHERS): NON COHESIVE / SLIGHTLY COHESIVE / COHESIVE / HIGHLY COHESIVECONSISTENCY (NON COHESIVE SOILS): LOOSE / FIRM / DENSE / VERY DENSE

PLASTICITY (CLAYS): NON PLASTIC / SLIGHTLY PLASTIC / COHESIVE / MEDIUM PLASTIC / HIGHLY PLASTIC

DENSITY (COHESIVE CLAYS &amp; SILTS): SOFT / FIRM / STIFF / VERY STIFF / HARD

MOISTURE: DRY / SLIGHTLY MOIST / MOIST / WET / SATURATED / SUPER SATURATEDCLOSEDDISCOLORATION/STAINING OBSERVED: YES (NO) EXPLANATION - \_\_\_\_\_HC ODOR DETECTED: YES / (NO) EXPLANATION - \_\_\_\_\_SAMPLING DEPTHS (LANDFARMS): 6-12 (INCHES)SAMPLE TYPE: GRAB / COMPOSITE # OF PTS. 5ADDITIONAL COMMENTS: NO ACTUAL LANDFARM OBSERVED ON-SITE.

## SKETCH/SAMPLE LOCATIONS

OVM CALIB READ = 52.3 ppm  
OVM CALIB GAS = 100 ppm RF = 0.52  
TIME: 10:40 am/pm DATE: 2/27/07

## OVM RESULTS

## LAB SAMPLES

SAMPLE ID	FIELD HEADSPACE (ppm)	SAMPLE ID	ANALYSIS	TIME	RESULTS (ppm)
LF-1	0.0	LF-1	TPH (B015B)	1030	1.5
		"	CHLOR.	"	162

P.C. 7/27/00

## SCALE



0 FT

TRAVEL NOTES: CALLOUT: N/AONSITE: 2/26/02, 2/27/07

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

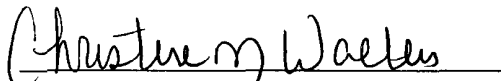
Client:	Blagg / BP	Project #:	94034-010
Sample ID:	LF - 1	Date Reported:	03-02-07
Laboratory Number:	40217	Date Sampled:	02-27-07
Chain of Custody No:	14744	Date Received:	02-28-07
Sample Matrix:	Soil	Date Extracted:	02-28-07
Preservative:	Cool	Date Analyzed:	03-01-07
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

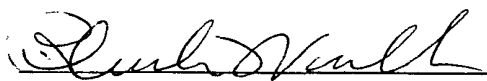
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	1.5	0.1
Total Petroleum Hydrocarbons	1.5	0.2

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: **Mudge LS #7A Landfarm 5 Pt Composite Sample.**

  
Analyst

  
Review

# ENVIROTECH LABS

**PRACTICAL SOLUTIONS FOR A BETTER TOMORROW**

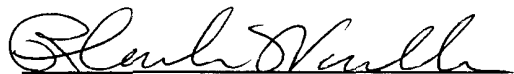
Chloride

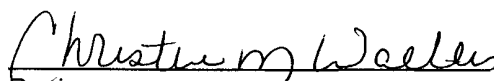
Client:	Blagg / BP	Project #:	94034-010
Sample ID:	LF - 1	Date Reported:	03-01-07
Lab ID#:	40217	Date Sampled:	02-27-07
Sample Matrix:	Soil	Date Received:	02-28-07
Preservative:	Cool	Date Analyzed:	03-01-07
Condition:	Cool and Intact	Chain of Custody:	14744

Parameter	Concentration (mg/Kg)
Total Chloride	162

Reference: Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: Mudge LS #7A Landfarm 5 Pt Composite Sample.

  
Analyst

  
Review

District I

P.O. Box 1980, Hobbs, NM

District II

P.O. Drawer DD, Artesia, NM 88211

District III

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: MUDGE LS #7A  
Well Name \_\_\_\_\_  
Location: Unit or Qtr/Qtr Sec C Sec 23 T 31N R 11W County SAN JUAN  
Pit Type: Separator \_\_\_ Dehydrator \_\_\_ Other ABANDONED PRODUCTION TANK  
Land Type: BLM ☒, State \_\_\_, Fee \_\_\_, Other \_\_\_\_\_

Pit Location: Pit dimensions: length NA, width NA, depth NA  
(Attach diagram) Reference: wellhead ☒, other \_\_\_\_\_  
Footage from reference: 120'  
Direction from reference: 21 Degrees ☒ East North ☒  
of  
West South \_\_\_\_\_

Depth To Ground Water: Less than 50 feet (20 points)  
(Vertical distance from 50 feet to 99 feet (10 points)  
contaminants to seasonal Greater than 100 feet (0 Points) 0  
high water elevation of  
ground water)

Wellhead Protection Area: Yes (20 points)  
(Less than 200 feet from a private No (0 points) 0  
domestic water source, or; less than  
1000 feet from all other water sources)

Distance To Surface Water: Less than 200 feet (20 points)  
(Horizontal distance to perennial 200 feet to 1000 feet (10 points)  
akes, ponds, rivers, streams, creeks, Greater than 1000 feet (0 points) 0  
irrigation canals and ditches)

RANKING SCORE (TOTAL POINTS): 0



Date Remediation Started: \_\_\_\_\_ Date Completed: 7/31/00

Remediation Method: Excavation ☒ Approx. cubic yards NA  
(Check all appropriate sections) Landfarmed \_\_\_\_\_ Insitu Bioremediation \_\_\_\_\_  
Other CLOSE AS IS.

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

General Description Of Remedial Action: \_\_\_\_\_  
Excavation. NO REMEDIATION NECESSARY.

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 5' (TEST HOLE BOTTOM)

Sample date 7/27/00 Sample time 1415

## Sample Results

Benzene(ppm) 0.098

Total BTEX(ppm) 0.498

Field headspace(ppm) 323

TPH 0.7 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 7/31/00

SIGNATURE

B. Shaw

PRINTED NAME  
AND TITLE

Buddy D. Shaw  
ENVIRONMENTAL COORDINATOR

District I

P.O. Box 1980, Hobbs, NM

District II

P.O. Drawer DD, Artesia, NM 88211

District III

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: MUDGE L5 #7A  
Well Name \_\_\_\_\_  
Location: Unit or Qtr/Qtr sec C sec 23 T 31N R 11W County SAN JUAN  
Pit Type: ABANDONED Separator ☒ Dehydrator \_\_\_\_\_ Other \_\_\_\_\_  
Land Type: BLM ☒, State \_\_\_\_\_, Fee \_\_\_\_\_, Other \_\_\_\_\_

Pit Location: Pit dimensions: length 12', width 13', depth 8'  
(Attach diagram) Reference: wellhead ☒, other \_\_\_\_\_  
Footage from reference: 137'  
Direction from reference: 33 Degrees \_\_\_\_\_ East North ☒  
of  
☒ West South \_\_\_\_\_

Depth To Ground Water: Less than 50 feet (20 points)  
(Vertical distance from 50 feet to 99 feet (10 points)  
contaminants to seasonal Greater than 100 feet (0 Points) 0  
high water elevation of  
ground water)

Wellhead Protection Area: Yes (20 points) 0  
(Less than 200 feet from a private No (0 points) \_\_\_\_\_  
domestic water source, or; less than  
1000 feet from all other water sources)

Distance To Surface Water: Less than 200 feet (20 points)  
(Horizontal distance to perennial 200 feet to 1000 feet (10 points)  
akes, ponds, rivers, streams, creeks, Greater than 1000 feet (0 points) 0  
irrigation canals and ditches)

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: \_\_\_\_\_ Date Completed: 7/31/00Remediation Method: Excavation ☒ Approx. cubic yards 40  
(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.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 4' (EAST SIDEWALL)Sample date 7/27/00 Sample time 1405

## Sample Results

Benzene(ppm) 0.0281Total BTEX(ppm) 0.313Field headspace(ppm) 394TPH 0.4 ppmGround 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 BELIEFDATE 7/31/00SIGNATURE B. ShawPRINTED NAME  
AND TITLEBuddy D. Shaw  
Environmental Coordinator

# CHAIN OF CUSTODY RECORD

73 3

Client / Project Name BLAGG / BP Amoco			Project Location MUDGE LS #7A		ANALYSIS / PARAMETERS									
Sampler: NTV			Client No. 403410		No. of Containers	TPH (8015)	BTEX (8021)						Remarks	
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix										
① @ 5'	7/27/00	1415	4833	SOIL	1	✓	✓						ABANDONED PRODUCTION TANK PIT	
② @ 4'	7/27/00	1405	4834	SOIL	1	✓	✓						ABANDONED SEPARATOR PIT	
													BOTH SAMPLES	
													PRESERV. - COOL	
Relinquished by: (Signature) <i>Hehon Vel</i>			Date 7/28/00	Time 0920	Received by: (Signature) <i>He L. Green</i>			Date 7.28.00	Time 920					
Relinquished by: (Signature)					Received by: (Signature)									
Relinquished by: (Signature)					Received by: (Signature)									
<b>ENVIROTECH INC.</b> 5796 U.S. Highway 64 Farmington, New Mexico 87401 (505) 632-0615										Sample Receipt				
											Y	N	N/A	
										Received Intact	✓			
										Cool - Ice/Blue Ice	✓			

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8015 Modified  
Nonhalogenated Volatile Organics  
Total Petroleum Hydrocarbons

## Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	07-31-TPH QA/QC	Date Reported:	07-31-00
Laboratory Number:	H831	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-31-00
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	05-15-00	2.7731E-002	2.7704E-002	0.10%	0 - 15%
Diesel Range C10 - C28	05-15-00	1.4027E-002	1.3999E-002	0.20%	0 - 15%

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	ND	0.2
Diesel Range C10 - C28	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	153	152	0.4%	0 - 30%
Diesel Range C10 - C28	4.7	4.7	0.0%	0 - 30%

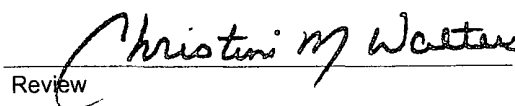
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	153	250	402	100%	75 - 125%
Diesel Range C10 - C28	4.7	250	254	100%	75 - 125%

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: QA/QC for samples H831 - H837.

  
Analyst

  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	07-31-BTEX QA/QC	Date Reported:	07-31-00
Laboratory Number:	H831	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-31-00
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF:	%Diff.	Blank Conc	Detect. Limit
		Accept. Range	0 - 15%		
Benzene	1.2306E-001	1.2335E-001	0.2%	ND	0.2
Toluene	5.6017E-002	5.6118E-002	0.2%	ND	0.2
Ethylbenzene	8.1536E-002	8.1708E-002	0.2%	ND	0.2
p,m-Xylene	7.7625E-002	7.7820E-002	0.3%	ND	0.2
o-Xylene	6.2483E-002	6.2589E-002	0.2%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	259	253	2.5%	0 - 30%	1.8
Toluene	1,120	1,090	2.7%	0 - 30%	1.7
Ethylbenzene	678	658	2.9%	0 - 30%	1.5
p,m-Xylene	1,540	1,490	3.2%	0 - 30%	2.2
o-Xylene	1,320	1,290	2.3%	0 - 30%	1.0

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	259	50.0	309	100%	39 - 150
Toluene	1,120	50.0	1,170	100%	46 - 148
Ethylbenzene	678	50.0	726	100%	32 - 160
p,m-Xylene	1,540	100	1,640	100%	46 - 148
o-Xylene	1,320	50.0	1,370	100%	46 - 148

\* - Administrative range set to 80 - 120%.

ND - Parameter not detected at the stated detection limit.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.  
Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: QA/QC for samples H831 - H836 and H838 - H839.

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CLIENT: <u>BP</u>	<b>BLAGG ENGINEERING, INC.</b> P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>80775</u> C.O.C. NO: _____
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FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION NAME: <u>MUDGE</u> LS WELL #: <u>7A</u> PITS: <u>SEP.</u> QUAD/UNIT: <u>C</u> SEC: <u>23</u> TWP: <u>31N</u> RNG: <u>11W</u> PM: <u>NM</u> CNTY: <u>SI</u> ST: <u>NM</u> QTR/FOOTAGE: _____ NEHW CONTRACTOR: <u>FLINT</u>	DATE STARTED <u>2/26/02</u> DATE FINISHED _____ ENVIRONMENTAL SPECIALIST: <u>NV</u>
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SOIL REMEDIATION: _____	40
REMEDICATION SYSTEM: _____	APPROX. CUBIC YARDAGE: <u>0</u>
LAND USE: <u>RANGE-BLM</u>	LIFT DEPTH (ft): <u>1</u>

**FIELD NOTES & REMARKS:**

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

SOIL TYPE: SAND / SILTY SAND / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER \_\_\_\_\_  
 SOIL COLOR: \_\_\_\_\_  
 COHESION (ALL OTHERS): NON COHESIVE / SLIGHTLY COHESIVE / COHESIVE / HIGHLY COHESIVE  
 CONSISTENCY (NON COHESIVE SOILS): LOOSE / FIRM / DENSE / VERY DENSE  
 PLASTICITY (CLAYS): NON PLASTIC / SLIGHTLY PLASTIC / COHESIVE / MEDIUM PLASTIC / HIGHLY PLASTIC  
 DENSITY (COHESIVE CLAYS & SILTS): SOFT / FIRM / STIFF / VERY STIFF / HARD  
 MOISTURE DRY / SLIGHTLY MOIST / MOIST / WET / SATURATED / SUPER SATURATED  
 DISCOLORATION/STAINING OBSERVED: YES / NO EXPLANATION - \_\_\_\_\_  
 HC ODOR DETECTED: YES / NO EXPLANATION - \_\_\_\_\_  
 SAMPLING DEPTHS (LANDFARMS): \_\_\_\_\_ (INCHES)  
 SAMPLE TYPE: GRAB / COMPOSITE - # OF PTS. \_\_\_\_\_  
 ADDITIONAL COMMENTS: NO LANDFARM OBSERVED ON-SITE

FIELD 418.1 CALCULATIONS

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

SKETCH/SAMPLE LOCATIONS

NO LANDFARM  
OBSERVED

OVM CALIB. READ. \_\_\_\_\_ ppm  
 OVM CALIB. GAS = 100 ppm; RF = 0.52  
 TIME: \_\_\_\_\_ am/pm DATE: \_\_\_\_\_

OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME	RESULTS

SCALE  

 0 FT

 TRAVEL NOTES: CALLOUT: N/A ONSITE: 2/26/02

# CHAIN OF CUSTODY RECORD

14744

Client / Project Name <b>BLAGE / BP</b>			Project Location <b>MUDGE LS # 7A</b>		ANALYSIS / PARAMETERS								
Sampler: <b>NV</b>			Client No. <b>94034-010</b>		No. of Containers <b>TPH (8015B)</b>	<b>CHLORIDE</b>					Remarks <b>PRESERVED COOL</b> <b>5 PT. COMPOSITE SAMPLE</b>		
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix									
<b>LF-1</b>	<b>2/27/07</b>	<b>1030</b>	<b>40217</b>	<b>SOIL</b>	<b>1</b>	<b>✓</b>	<b>✓</b>				<b>LANDFARM</b>		
Relinquished by: (Signature) <i>[Signature]</i>			Date <b>2/28/07</b>	Time <b>0846</b>	Received by: (Signature) <i>[Signature]</i>			Date <b>2/28/07</b>	Time <b>846</b>				
Relinquished by: (Signature)					Received by: (Signature)								
Relinquished by: (Signature)					Received by: (Signature)								
<b>ENVIROTECH INC.</b> 5796 U.S. Highway 64 Farmington, New Mexico 87401 (505) 632-0615										Sample Receipt			
											Y	N	N/A
										Received Intact	✓		
										Cool - Ice/Blue Ice	✓		



# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA Method 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

### Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	03-01-07 QA/QC	Date Reported:	03-02-07
Laboratory Number:	40216	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	03-01-07
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF	C-Cal RF	% Difference	Accept. Range
Gasoline Range C5 - C10	07-11-05	2.2460E+003	2.2482E+003	0.10%	0 - 15%
Diesel Range C10 - C28	07-11-05	2.3915E+003	2.3963E+003	0.20%	0 - 15%

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	ND	0.2
Diesel Range C10 - C28	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

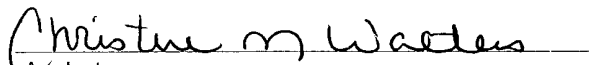
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	3.7	3.7	0.0%	0 - 30%

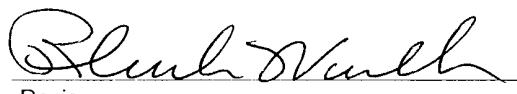
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	ND	250	248	99.2%	75 - 125%
Diesel Range C10 - C28	3.7	250	244	96.1%	75 - 125%

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: QA/QC for Samples 40216 - 40221.

  
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