

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: <u>BP America Production Company</u> Telephone: <u>(505)326-9200</u> e-mail address: _____		
Address: <u>200 Energy Ct, Farmington, NM 87401</u>		
Facility or well name: <u>LUDWICK LS #12</u> API #: <u>3004509246</u> U/L or Qtr/Qtr <u>B</u> Sec <u>29</u> T <u>30N</u> R <u>10W</u>		
County: <u>San Juan</u> 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) <u>0</u>
	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) <u>0</u>
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) <u>0</u>
	1000 feet or more	(0 points)
Ranking Score (Total Points)		<u>0</u>

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	RCUD JUN 13 '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,
District #3

Printed Name/Title _____

Signature [Signature]

Date: AUG 10 2006

3004509246

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>80761</u> C.D.C. NO: <u>8058</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>LUDWICK</u> <u>LS</u> WELL # <u>17</u> PIT. <u>ABAND. BLOW</u> QUAD/UNIT <u>B</u> SEC. <u>29</u> TWP. <u>30N</u> RNG: <u>10W</u> PM:MM CNTY: <u>ST. NM</u> QTR/FOOTAGE: <u>190'N 1650'E</u> <u>NWNE</u> CONTRACTOR <u>FLINT</u>	DATE STARTED <u>7/2/00</u> DATE FINISHED <u>7/12/00</u> ENVIRONMENTAL SPECIALIST <u>NU/JCB</u>
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EXCAVATION APPROX. <u>22</u> FT. x <u>22</u> FT. x <u>8</u> FT. DEEP. CUBIC YARDAGE <u>140</u>
DISPOSAL FACILITY. <u>ON-SITE</u> REMEDIATION METHOD. <u>LANDFILL</u>
LAND USE: <u>RANGE</u> : LEASE: <u>SF 078194</u> FORMATION: <u>DK</u>

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY <u>150</u> FT. <u>S63W</u> FROM WELL-HEAD	
DEPTH TO GROUNDWATER: <u><100'</u> NEAREST WATER SOURCE: <u>>1000'</u> NEAREST SURFACE WATER: <u>>1000'</u>	CHECK ONE:
NMOCB RANKING SCORE: <u>0</u> NMOCB TPH CLOSURE STD: <u>5000</u> PPM	☒ PIT ABANDONED
SOIL AND EXCAVATION DESCRIPTION: <u>CLW. 6168'</u>	☐ STEEL TANK INSTALLED
	☐ FIBERGLASS TANK INSTALLED

MOSTLY MOD. TO DR. YEL. BROWN SAND, NON COHESIVE, SLIGHTLY MOIST, LOOSE TO FIRM, DISCOLORED SOIL (MOSTLY LT. TO MED. GRAY IN COLOR) OBSERVED WITHIN ALL SIDEWALLS RANGING FROM 2-4' IN THICKNESS (SOUTH SIDEWALL CONTAINING THICKNESS INTERVAL) SLIGHT HC ODOR DETECTED WITHIN DISCOLORED SOIL PORTION, PIT BOTTOM SAMPLE OLIVE GRAY IN COLOR, STRONG HC ODOR DETECTED.

CLOSED

SCALE
0 FT

FIELD 418.1 CALCULATIONS

TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL FREON	DILUTION	READING	CALC ppm
0955							

TPH 102 ppm
8-13.2 = 2670 ppm

PIT PERIMETER

OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 @ 4'	447
2 @ 4'	16.7
3 @ 6'	225.4
4 @ 5'	25.8
5 @ 13'	2,450

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME
5 @ 13'	BTX	0950
"	TPH	"

BOTH PASSED

PIT PROFILE

TRAVEL NOTES: CALLOUT: _____	ONSITE: _____
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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

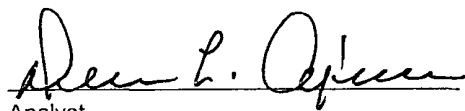
Client:	Blagg / Amoco	Project #:	403410
Sample ID:	C @ 13'	Date Reported:	07-11-00
Laboratory Number:	H684	Date Sampled:	07-10-00
Chain of Custody No:	8058	Date Received:	07-10-00
Sample Matrix:	Soil	Date Extracted:	07-10-00
Preservative:	Cool	Date Analyzed:	07-11-00
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

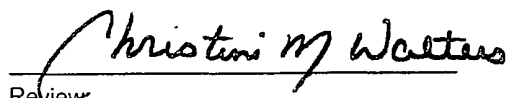
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	75.4	0.2
Diesel Range (C10 - C28)	26.6	0.1
Total Petroleum Hydrocarbons	102	0.1

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: Ludwick LS #17.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / Amoco	Project #:	403410
Sample ID:	C @ 13'	Date Reported:	07-11-00
Laboratory Number:	H684	Date Sampled:	07-10-00
Chain of Custody:	8058	Date Received:	07-10-00
Sample Matrix:	Soil	Date Analyzed:	07-11-00
Preservative:	Cool	Date Extracted:	07-10-00
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	13.2	1.8
Toluene	90.5	1.7
Ethylbenzene	207	1.5
p,m-Xylene	1,730	2.2
o-Xylene	624	1.0
Total BTEX	2,670	

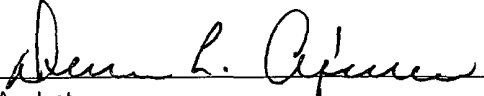
ND - Parameter not detected at the stated detection limit.

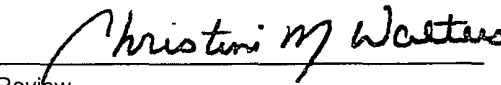
Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	100 %
	Bromofluorobenzene	100 %

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: Ludwick LS #17.


Analyst


Review

CLIENT

BP

BLAGG ENGINEERING, INC.
P.O. BOX 87, BLOOMFIELD, NM 87413
(505) 632-1199

LOCATION NO: 80761

C.O.C NO. 14684

FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: NAME: LUDWICK LS WELL# 17 PITS:
QUAD/UNIT: B SEC: 29 TWP: 30N RING: 10W PM: NM CNTY: ST NM
QTR/FOOTAGE: mine CONTRACTOR:

DATE STARTED 12/28/06

DATE FINISHED

ENVIRONMENTAL SPECIALIST: NV

SOIL REMEDIATION:

REMEDICATION SYSTEM: LANDFARM

APPROX. CUBIC YARDAGE:

LAND USE: RANGE - BLM

LIFT DEPTH (ft):

N/A

FIELD NOTES & REMARKS:

DEPTH TO GROUNDWATER: >100'

NEAREST SURFACE WATER: >1,000'

NEAREST WATER SOURCE

>1,000'

NMOC D RANKING SCORE: 0

NMOC D TPH CLOSURE STD: 5,000 PPM

SOIL TYPE: SAND / SILTY SAND / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER

SOIL COLOR

OK. YELL. ORANGE

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 -

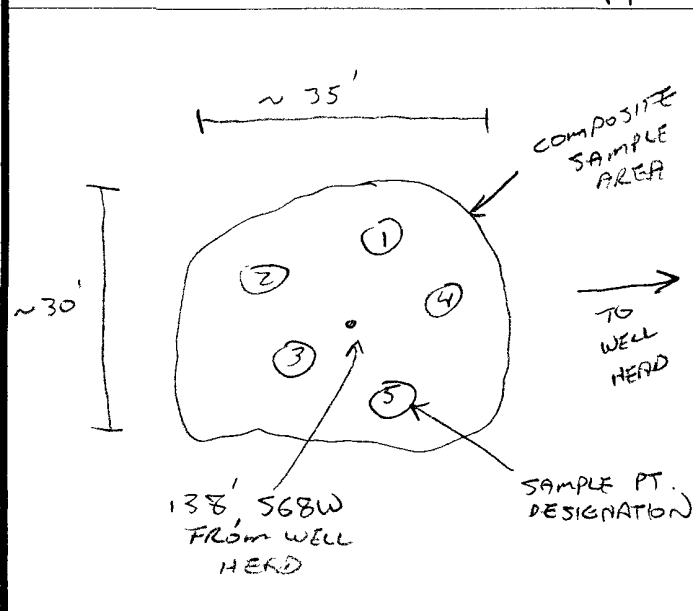
SAMPLING DEPTHS (LANDFARMS): 3-6 (INCHES)

SAMPLE TYPE: GRAB / COMPOSITE # OF PTS. 5

ADDITIONAL COMMENTS: NO ACTUAL LANDFARM OBSERVED ON-SITE. COLLECTED 5 PT. COMPOSITE SAMPLE.

SKETCH/SAMPLE LOCATIONS

N



OVM CALIB READ = ppm
OVM CALIB GAS = ppm
TIME am/pm DATE: RF = 0.52

OVM RESULTS

LAB SAMPLES

SAMPLE ID	FIELD HEADSPACE (ppm)	SAMPLE ID	ANALYSIS	TIME	RESULTS
LF-1	N/A	LF-1	TPH	1225	ND
		"	BENZENE	"	ND
		"	TOT. BTEX	"	0.033
		"	CHLORIDE	"	102

P.C. - 7/10/00

SCALE

0 FT

TRAVEL NOTES: CALLOUT N/A

ONSITE: 12/26/01, 12/22/06

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

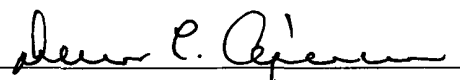
Client:	Blagg / BP	Project #:	94034-010
Sample ID:	LF - 1	Date Reported:	01-02-07
Laboratory Number:	39618	Date Sampled:	12-28-06
Chain of Custody No:	14684	Date Received:	12-28-06
Sample Matrix:	Soil	Date Extracted:	12-29-06
Preservative:	Cool	Date Analyzed:	01-02-07
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

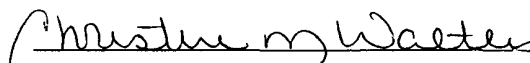
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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: **Ludwick LS #17 Landfarm 5 Pt. Composite Sample**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / BP	Project #:	94034-010
Sample ID:	LF - 1	Date Reported:	01-02-07
Laboratory Number:	39618	Date Sampled:	12-28-06
Chain of Custody:	14684	Date Received:	12-28-06
Sample Matrix:	Soil	Date Analyzed:	01-02-07
Preservative:	Cool	Date Extracted:	12-29-06
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	1.8
Toluene	ND	1.7
Ethylbenzene	28.3	1.5
p,m-Xylene	4.7	2.2
o-Xylene	ND	1.0
Total BTEX	33.0	

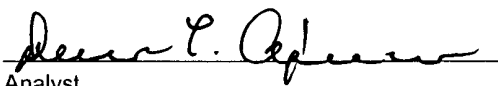
ND - Parameter not detected at the stated detection limit.

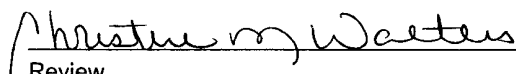
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	99.0 %
	1,4-difluorobenzene	99.0 %
	Bromochlorobenzene	99.0 %

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: Ludwick LS #17 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:	01-02-07
Lab ID#:	39618	Date Sampled:	12-28-06
Sample Matrix:	Soil	Date Received:	12-28-06
Preservative:	Cool	Date Analyzed:	12-29-06
Condition:	Cool and Intact	Chain of Custody:	14684

Parameter

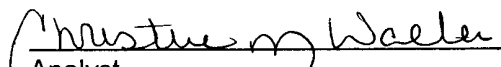
Concentration (mg/Kg)

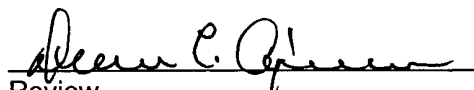
Total Chloride

102

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

Comments: Ludwick LS #17 Landfarm 5 Pt. Composite Sample


Analyst


Review

80761

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 REPORTOperator: Amoco Production Company Telephone: (505) - 326-9200Address: 200 Amoco Court, Farmington, New Mexico 87401Facility Or: LOWDOWN CR L5 #17
Well NameLocation: Unit or Qtr/Qtr Sec B Sec 29 T 30N R 10W County SAN JUANPit Type: Separator Dehydrator Other ABANDONED BLOWLand Type: BLM ✓, State , Fee , Other Pit Location: Pit dimensions: length 22', width 22', depth 8'
(Attach diagram)Reference: wellhead , other Footage from reference: 150'Direction from reference: 63 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) 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)
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): 0

Date Remediation Started: _____ Date Completed: 7/12/00

Remediation Method: Excavation ☒ Approx. cubic yards 140

(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

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 13' (PIT BOTTOM)

Sample date 7/10/00 Sample time 0950

Sample Results

Benzene(ppm) 0.0132

Total BTEX(ppm) 2.670

Field headspace(ppm) 2,450

TPH 102 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 7/12/00

SIGNATURE

B. Shaw

PRINTED NAME
AND TITLE

Buddy D. Shaw
ENVIRONMENTAL COORDINATOR

CHAIN OF CUSTODY RECORD

08058

Client / Project Name BLAGG / AMOCO			Project Location LUDWICK LS #17		ANALYSIS / PARAMETERS											
Sampler: J.C. Blagg			Client No. 403410		No. of Containers 1	TPH	8015							Remarks RUN BTEX 8021 IF TPH < 1000		
Sample No./ Identification C@ 13'	Sample Date 7/10/00	Sample Time 0950	Lab Number H684	Sample Matrix SOIL												
Relinquished by: (Signature) J.C. Blagg			Date 7/10/00	Time 1040	Received by: (Signature) Walter L. Ceylan			Date 7-10-00	Time 1040							
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			
														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:	07-11-TPH QA/QC	Date Reported:	07-11-00
Laboratory Number:	H677	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-11-00
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

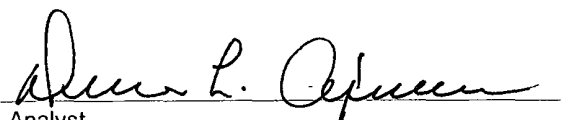
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	0.8	0.8	0.0%	0 - 30%
Diesel Range C10 - C28	0.5	0.5	0.0%	0 - 30%

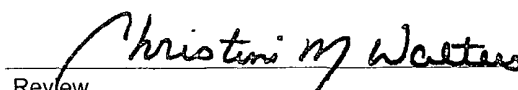
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	0.8	250	250	100%	75 - 125%
Diesel Range C10 - C28	0.5	250	250	100%	75 - 125%

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 H677 - H685.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	07-11-BTEX QA/QC	Date Reported:	07-11-00
Laboratory Number:	H682	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-11-00
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	1.0484E-001	1.0509E-001	0.2%	ND	0.2
Toluene	1.0600E-001	1.0619E-001	0.2%	ND	0.2
Ethylbenzene	1.1535E-001	1.1559E-001	0.2%	ND	0.2
p,m-Xylene	1.2973E-001	1.3005E-001	0.3%	ND	0.2
o-Xylene	1.1779E-001	1.1799E-001	0.2%	ND	0.1

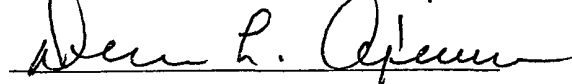
Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	ND	ND	0.0%	0 - 30%	1.8
Toluene	ND	ND	0.0%	0 - 30%	1.7
Ethylbenzene	ND	ND	0.0%	0 - 30%	1.5
p,m-Xylene	66.7	65.2	2.2%	0 - 30%	2.2
o-Xylene	30.3	29.8	1.7%	0 - 30%	1.0

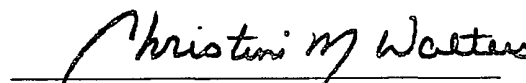
Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	50.0	50.0	100%	39 - 150
Toluene	ND	50.0	50.0	100%	46 - 148
Ethylbenzene	ND	50.0	50.0	100%	32 - 160
p,m-Xylene	66.7	100.0	167	100%	46 - 148
o-Xylene	30.3	50.0	80.2	100%	46 - 148

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 H682 AND H684.


Analyst


Review

CLIENT <u>BP</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO <u>80761</u> CDC NO _____
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FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION NAME <u>LUDWICK</u>	L5	WELL #: <u>17</u>	PITS: <u>BLow</u>	DATE STARTED <u>12/26/01</u>
QUAD/UNIT <u>8</u>	SEC. <u>29</u>	TWP. <u>30N</u>	RNG: <u>10W</u>	PM: <u>Nm</u> CNTY: <u>ST</u> ST: <u>Nm</u>
QTR/FOOTAGE <u>NW/NE</u>	CONTRACTOR: <u>FLINT</u>			ENVIRONMENTAL SPECIALIST <u>NV</u>

SOIL REMEDIATION:

 REMEDIATION SYSTEM: SEE COMMENTS BELOW

 APPROX. CUBIC YARDAGE: 50

 LAND USE RANGE-BLM

 LIFT DEPTH (ft). -

FIELD NOTES & REMARKS:	NMCD RANKING SCORE: <u>0</u>	NMCD TPH CLOSURE STD <u>5000</u> ppm
DEPTH TO GROUNDWATER: <u>>100'</u>	NEAREST WATER SOURCE: <u>>1000'</u>	NEAREST SURFACE WATER <u>>1000'</u>

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. SOIL PROBABLY TRANSPORTED TO NYE GC B IE F-7-29-9

FIELD 418.1 CALCULATIONS

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

SKETCH/SAMPLE LOCATIONS

DVM CALIB. READ: _____ ppm
DVM CALIB GAS = 100 ppm, RF = 0.52
TIME: _____ am/pm DATE _____

OVM RESULTS

LAB SAMPLES

SAMPLE ID	FIELD HEADSPACE PID (ppm)	SAMPLE ID	ANALYSIS	TIME	RESULTS

P.C. 7/10/00

SCALE

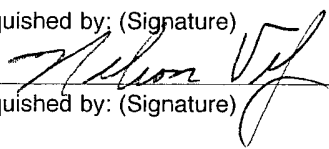
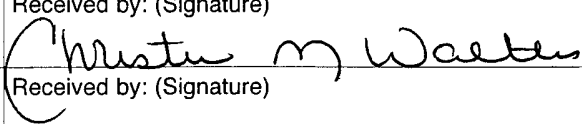


0 FT

TRAVEL NOTES: CALLOUT: <u>N/A</u>	ONSITE: <u>12/26/01</u>
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CHAIN OF CUSTODY RECORD

14684

Client / Project Name BLAGE / BP			Project Location LUOWICK LS #17		ANALYSIS / PARAMETERS						
Sampler: NV			Client No. 94034-010		No. of Containers	TPH (80158)	BTEX (80218)	CHLORIDE	Remarks		
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix					PRESERVED COOL 5 PT. COMPOSITE SAMPLE		
LF-1	12/28/06	1225	39618	SOIL	1	✓	✓	✓	LANDFARM		
Relinquished by: (Signature) 			Date 12/28/06	Time 1359	Received by: (Signature) 			Date 12/28/06	Time 1355		
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				
								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:	01-02-07 QA/QC	Date Reported:	01-02-07
Laboratory Number:	39612	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-02-07
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	9.9501E+002	9.9601E+002	0.10%	0 - 15%
Diesel Range C10 - C28	07-11-05	9.8869E+002	9.9067E+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

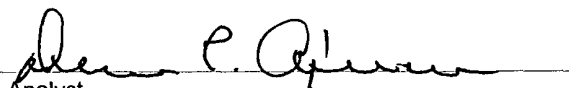
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	ND	ND	0.0%	0 - 30%

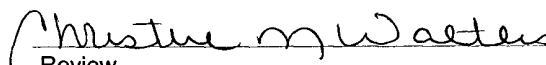
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	ND	250	250	100.0%	75 - 125%
Diesel Range C10 - C28	ND	250	250	100.0%	75 - 125%

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 39612 - 39618


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	01-02-BTEX QA/QC	Date Reported:	01-02-07
Laboratory Number:	39612	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-02-07
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	3.3208E+007	3.3275E+007	0.2%	ND	0.2
Toluene	4.4577E+007	4.4667E+007	0.2%	ND	0.2
Ethylbenzene	2.1124E+007	2.1167E+007	0.2%	ND	0.2
p,m-Xylene	9.0067E+007	9.0248E+007	0.2%	ND	0.2
o-Xylene	3.9449E+007	3.9528E+007	0.2%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	ND	ND	0.0%	0 - 30%	1.8
Toluene	4.7	4.7	0.0%	0 - 30%	1.7
Ethylbenzene	7.4	7.4	0.0%	0 - 30%	1.5
p,m-Xylene	25.5	25.4	0.4%	0 - 30%	2.2
o-Xylene	11.5	11.5	0.0%	0 - 30%	1.0

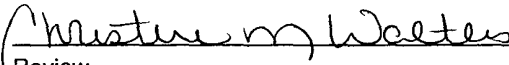
Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	50.0	49.9	99.8%	39 - 150
Toluene	4.7	50.0	54.6	99.8%	46 - 148
Ethylbenzene	7.4	50.0	57.3	99.8%	32 - 160
p,m-Xylene	25.5	100	125	99.8%	46 - 148
o-Xylene	11.5	50.0	61.5	100.0%	46 - 148

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 39612 - 39618


Analyst


Review