

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 CALLOW A #1E API #: 30045 24287 U/L or Qtr/Qtr M Sec 27 T 29 N R 13 W
County San Juan Latitude _____ Longitude _____ NAD 1927 ☐ 1983 ☒
Surface Owner Federal ☒ State ☐ Private ☐ Indian ☐

Pit	Below-grade tank
Type: Drilling ☐ Production ☐ Disposal ☒ Workover ☐ Emergency ☐ Lined ☐ Unlined ☒ Liner type Synthetic ☐ Thickness _____ mil Clay ☐ Pit Volume _____ bbl	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>10</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>10</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.

RCVD JUN13'07
OIL CONS. DIV.
DIST. 3

Additional Comments
See Attached Documentation

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>BP</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO <u>80925</u> COC NO <u>8893</u>																														
FIELD REPORT: CLOSURE VERIFICATION		PAGE No <u>2</u> of <u>2</u>																														
LOCATION: NAME <u>CALLOW</u> A WELL # <u>1E</u> PIT <u>ABAN.</u> QUAD/UNIT. <u>M</u> SEC: <u>27</u> TWP: <u>29N</u> RNG: <u>13W</u> PM: <u>NM</u> CNTY: <u>SJ</u> ST <u>NM</u> QTR/FOOTAGE: <u>11205</u> / <u>1100</u> W <u>SW</u> CONTRACTOR <u>FLINT</u>		DATE STARTED <u>1/17/02</u> DATE FINISHED _____ ENVIRONMENTAL SPECIALIST <u>NV</u>																														
EXCAVATION APPROX. <u>22</u> FT x <u>19</u> FT x <u>16</u> FT DEEP CUBIC YARDAGE <u>200</u> DISPOSAL FACILITY: <u>ON-SITE</u> REMEDIATION METHOD <u>DILUTED/AERATED</u> LAND USE: <u>RANGE - BLM</u> LEASE: <u>SF 006988</u> FORMATION <u>OK</u>																																
FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY <u>135</u> FT <u>N35E</u> FROM WELL-541 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																																
SOIL AND EXCAVATION DESCRIPTION: SOIL TYPE: <u>SAND</u> / SILTY SAND / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER _____ SOIL COLOR: <u>OK. YELL. ORANGE TO MED. YELL. BROWN</u> COHESION (ALL OTHERS): <u>NON COHESIVE</u> / SLIGHTLY COHESIVE / COHESIVE / HIGHLY COHESIVE CONSISTENCY (NON COHESIVE SOILS): <u>LOOSE</u> / <u>FIRM</u> / DENSE / VERY DENSE PLASTICITY (CLAYS): <u>NON PLASTIC</u> / SLIGHTLY PLASTIC / COHESIVE / MEDIUM PLASTIC / HIGHLY PLASTIC DENSITY (COHESIVE CLAYS & SILTS): <u>SOFT</u> / FIRM / STIFF / VERY STIFF / HARD MOISTURE <u>DRY</u> / <u>SLIGHTLY MOIST</u> / MOIST / WET / SATURATED / SUPER SATURATED DISCOLORATION/STAINING OBSERVED: YES / <u>NO</u> EXPLANATION - _____ HC ODOR DETECTED: YES / <u>NO</u> EXPLANATION - _____ SAMPLE TYPE: <u>GRAB</u> / COMPOSITE - # OF PTS. <u>—</u> ADDITIONAL COMMENTS: <u>ADDITIONAL EXCAVATION FROM RESULTING 1/14/02 VERIFICATION.</u>		CHECK ONE ☒ PIT ABANDONED ☐ STEEL TANK INSTALLED ☐ FIBERGLASS TANK INSTALLED																														
SCALE 0 FT																																
FIELD 418.1 CALCULATIONS																																
SAMP. TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC	ppm																								
PIT PERIMETER		PIT PROFILE																														
		OVM RESULTS <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>SAMPLE ID</th> <th>FIELD HEADSPACE PID (ppm)</th> </tr> <tr><td>1 @ 8'</td><td>0.0</td></tr> <tr><td>2 @ —</td><td>—</td></tr> <tr><td>3 @ —</td><td>—</td></tr> <tr><td>4 @ 6'</td><td>0.0</td></tr> <tr><td>5 @ 16'</td><td>6.3</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> <tr><td> </td><td> </td></tr> </table>		SAMPLE ID	FIELD HEADSPACE PID (ppm)	1 @ 8'	0.0	2 @ —	—	3 @ —	—	4 @ 6'	0.0	5 @ 16'	6.3																	
SAMPLE ID	FIELD HEADSPACE PID (ppm)																															
1 @ 8'	0.0																															
2 @ —	—																															
3 @ —	—																															
4 @ 6'	0.0																															
5 @ 16'	6.3																															
LAB SAMPLES <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>SAMPLE ID</th> <th>ANALYSIS</th> <th>TIME</th> </tr> <tr> <td>5 @ 16'</td> <td>TPH (80158)</td> <td>0845</td> </tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </table>		SAMPLE ID	ANALYSIS	TIME	5 @ 16'	TPH (80158)	0845													ADVANCED W/ TRACKHOE & TIME OF SAMPLING												
SAMPLE ID	ANALYSIS	TIME																														
5 @ 16'	TPH (80158)	0845																														
PD = PIT DEPRESSION; BG = BELOW GRADE TH = TEST HOLE		PASSED																														
TRAVEL NOTES: CALLOUT: <u>1/16/02 - AFTER.</u> ONSITE: <u>1/17/02 - MORN.</u>																																

CLIENT: <u>BP</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO <u>80925</u> COC NO <u>8891</u>
-------------------	--	--

FIELD REPORT: CLOSURE VERIFICATION		PAGE No <u>1</u> of <u>2</u>
------------------------------------	--	------------------------------

LOCATION: NAME: <u>CALLOW A</u> WELL # <u>1E</u> PIT <u>ABAN.</u>	DATE STARTED <u>1/14/02</u>
QUAD/UNIT: <u>M SEC. 27 TWP. 29N RNG. 13W PM NM CNTY SJ ST NM</u>	DATE FINISHED _____
QTR/FOOTAGE: <u>1120S/1100W</u> SW/SW CONTRACTOR <u>FLINT</u>	ENVIRONMENTAL SPECIALIST <u>NV</u>

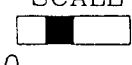
EXCAVATION APPROX. <u>22</u> FT x <u>19</u> FT x <u>16</u> FT. DEEP	CUBIC YARDAGE <u>200</u>
DISPOSAL FACILITY: <u>ON-SITE</u>	REMEDIALATION METHOD: <u>DILUTED/LAERATED</u>
LAND USE: <u>RANGE - BLN</u>	LEASE: <u>SF-006988</u> FORMATION <u>DK</u>

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY <u>132</u> FT. <u>N35E</u> FROM WELL-HEAD	
DEPTH TO GROUNDWATER: <u><100'</u>	NEAREST WATER SOURCE: <u>71000'</u> NEAREST SURFACE WATER: <u>>1000'</u>
NMOCB RANKING SCORE: <u>10</u>	NMOCB TPH CLOSURE STD: <u>1000</u> PPM

SOIL AND EXCAVATION DESCRIPTION: SOIL TYPE: <u>SAND</u> / SILTY SAND / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER _____ SOIL COLOR: <u>DK. YELL ORANGE TO BROWN - EAST & SOUTH SIDEWALLS MED. TO MED. DK. GRAY - ALL OTHERS</u> COHESION (ALL OTHERS): <u>NON COHESIVE</u> / SLIGHTLY COHESIVE / COHESIVE / HIGHLY COHESIVE CONSISTENCY (NON COHESIVE SOILS): <u>LOOSE</u> / <u>FIRM</u> / 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 / <u>SLIGHTLY MOIST</u> / MOIST / <u>WET</u> / SATURATED / SUPER SATURATED DISCOLORATION/STAINING OBSERVED: <u>YES</u> / NO EXPLANATION <u>NORTH & WEST SIDEWALLS, PIT BOTTOM</u> HC ODOR DETECTED: <u>YES</u> / NO EXPLANATION <u>WITHIN EXCAVATION & NORTH, WEST, & PIT BOTTOM OVM SAMPLES</u> SAMPLE TYPE: <u>GRAB</u> / COMPOSITE - # OF PTS. _____ ADDITIONAL COMMENTS: <u>UPON BEING NOTIFIED THAT BOTH TPH ANALYZES EXCEEDED CLOSURE STANDARDS, FURTHER REMEDIATION IS REQUIRED ON NORTH & WEST SIDEWALLS & PIT BOTTOM (SEE Pg. 2 OF 2 - NEXT)</u>	CHECK ONE ☒ PIT ABANDONED ☐ STEEL TANK INSTALLED ☐ FIBERGLASS TANK INSTALLED
--	---

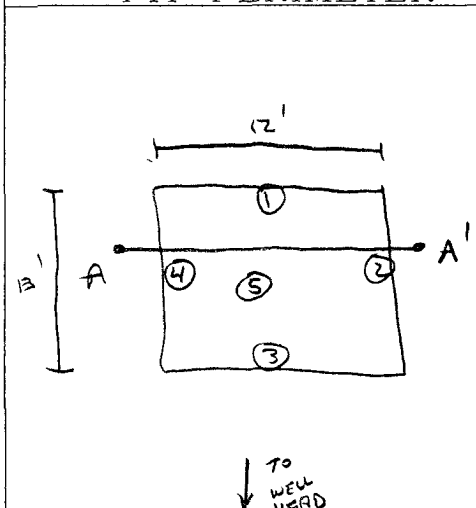
FIELD 418.1 CALCULATIONS							
SAMP. TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC ppm

SCALE



0 FT

PIT PERIMETER



TO WELL HEAD

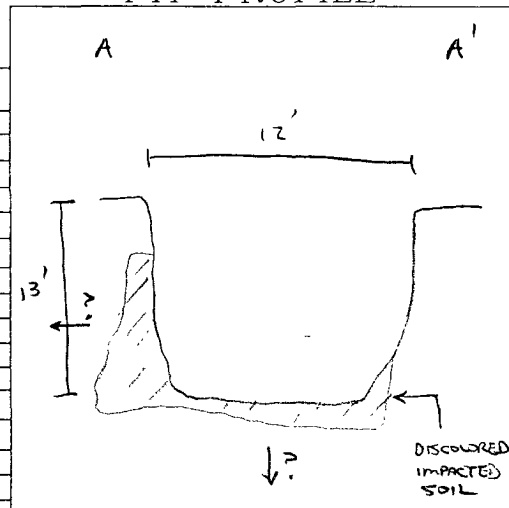
OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 @ 6'	195
2 @ 6'	16.8
3 @ 6'	4.8
4 @ 6'	154
5 @ 13'	408

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME
5 @ 13'	TPH (8015B)	1400
	BTEX (8021B)	
1 @ 6'	TPH (8015B)	1410
"	BTEX (8021B)	"

PIT PROFILE



DISCOURDED/IMPACTED SOIL

P.D. = PIT DEPRESSION; B.G. = BELOW GRADE	
T.H. = TEST HOLE	

TRAVEL NOTES: CALLOUT: <u>1/14/02 - LATE MORN.</u> ONSITE: <u>1/14/02 - AFTER.</u> 1:15

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

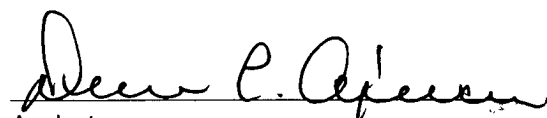
Client:	Blagg / BP	Project #:	94034-010
Sample ID:	1 @ 6'	Date Reported:	01-15-02
Laboratory Number:	21799	Date Sampled:	01-14-02
Chain of Custody No:	8891	Date Received:	01-15-02
Sample Matrix:	Soil	Date Extracted:	01-15-02
Preservative:	Cool	Date Analyzed:	01-15-02
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

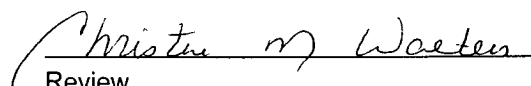
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	302	0.2
Diesel Range (C10 - C28)	2,780	0.1
Total Petroleum Hydrocarbons	3,080	0.2

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: **Callow A #1E Abandoned Pit Grab 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:	1 @ 6'	Date Reported:	01-15-02
Laboratory Number:	21799	Date Sampled:	01-14-02
Chain of Custody:	8891	Date Received:	01-15-02
Sample Matrix:	Soil	Date Analyzed:	01-15-02
Preservative:	Cool	Date Extracted:	01-15-02
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	120	1.8
Toluene	867	1.7
Ethylbenzene	311	1.5
p,m-Xylene	1,370	2.2
o-Xylene	452	1.0
Total BTEX	3,120	

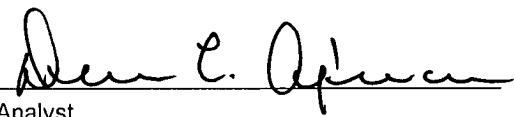
ND - Parameter not detected at the stated detection limit.

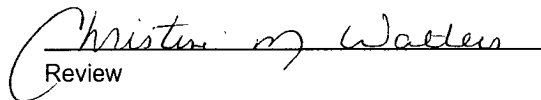
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	97 %
	1,4-difluorobenzene	97 %
	Bromochlorobenzene	97 %

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: Callow A #1E Abandoned Pit Grab Sample.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

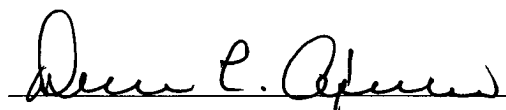
Client:	Blagg / BP	Project #:	94034-010
Sample ID:	5 @ 13'	Date Reported:	01-15-02
Laboratory Number:	21798	Date Sampled:	01-14-02
Chain of Custody No:	8891	Date Received:	01-15-02
Sample Matrix:	Soil	Date Extracted:	01-15-02
Preservative:	Cool	Date Analyzed:	01-15-02
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

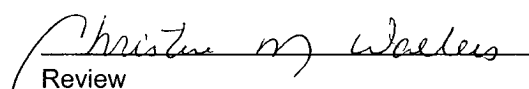
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	388	0.2
Diesel Range (C10 - C28)	2,070	0.1
Total Petroleum Hydrocarbons	2,460	0.2

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: **Callow A #1E Abandoned Pit Grab 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:	5 @ 13'	Date Reported:	01-15-02
Laboratory Number:	21798	Date Sampled:	01-14-02
Chain of Custody:	8891	Date Received:	01-15-02
Sample Matrix:	Soil	Date Analyzed:	01-15-02
Preservative:	Cool	Date Extracted:	01-15-02
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	29.4	1.8
Toluene	124	1.7
Ethylbenzene	702	1.5
p,m-Xylene	2,100	2.2
o-Xylene	735	1.0
Total BTEX	3,690	

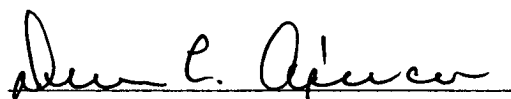
ND - Parameter not detected at the stated detection limit.

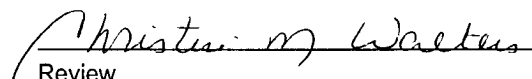
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	97 %
	1,4-difluorobenzene	97 %
	Bromochlorobenzene	97 %

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: Callow A #1E Abandoned Pit Grab Sample.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

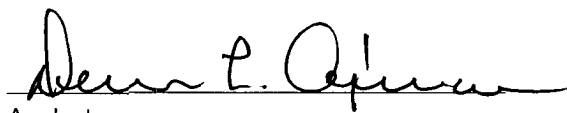
Client:	Blagg / BP	Project #:	94034-010
Sample ID:	5 @ 16'	Date Reported:	01-21-02
Laboratory Number:	21834	Date Sampled:	01-17-02
Chain of Custody No:	8893	Date Received:	01-17-02
Sample Matrix:	Soil	Date Extracted:	01-18-02
Preservative:	Cool	Date Analyzed:	01-21-02
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

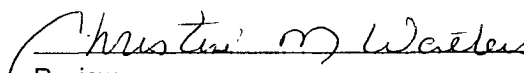
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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: **Callow A #1E Abandoned Pit Grab Sample.**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

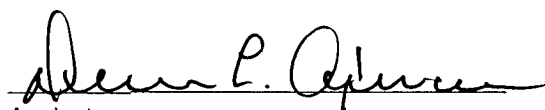
Client:	Blagg / BP	Project #:	94034-010
Sample ID:	SP - 1	Date Reported:	01-21-02
Laboratory Number:	21835	Date Sampled:	01-17-02
Chain of Custody No:	8893	Date Received:	01-17-02
Sample Matrix:	Soil	Date Extracted:	01-18-02
Preservative:	Cool	Date Analyzed:	01-21-02
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

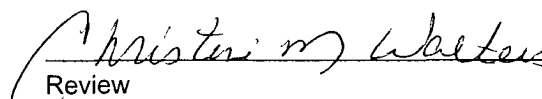
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	41.1	0.2
Diesel Range (C10 - C28)	973	0.1
Total Petroleum Hydrocarbons .	1,010	0.2

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: Callow A #1E Abandoned Pit Stockpile 5 Pt. Composite.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / BP	Project #:	94034-010
Sample ID:	SP - 1	Date Reported:	01-21-02
Laboratory Number:	21835	Date Sampled:	01-17-02
Chain of Custody:	8893	Date Received:	01-17-02
Sample Matrix:	Soil	Date Analyzed:	01-21-02
Preservative:	Cool	Date Extracted:	01-18-02
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	81.2	1.8
Toluene	96.3	1.7
Ethylbenzene	110	1.5
p,m-Xylene	554	2.2
o-Xylene	126	1.0
Total BTEX	968	

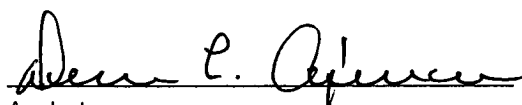
ND - Parameter not detected at the stated detection limit.

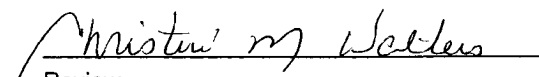
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	98 %
	1,4-difluorobenzene	98 %
	Bromochlorobenzene	98 %

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: Callow A #1E Abandoned Pit Stockpile 5 Pt. Composite.


Analyst


Review