District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 1000 Rio Brazos Road, Aztec, NM 87410

1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico **Energy Minerals and Natural Resources**

appropriate NMOCD District Office.

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

For drilling and production facilities, submit to For downstream facilities, submit to Santa Fe

Form C-144

June 1, 2004

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 \(\subseteq\) Closure of a pit or below-grade tank \(\subseteq\) BP AMERICA PROD. CO. Telephone: (505)-326-9200 e-mail address: Address: 200 ENERGY COURT, FARMINGTON, NM 87410 U/L or Otr/Otr G Sec 4 T 31N R 11W API#: 30-045- 11057 Facility or well name: MUDGE LS #22 County: SAN JUAN Latitude 36.92888 Longitude 107.99169 NAD: 1927 🔲 1983 🛛 Surface Owner Federal 🖾 State 🗀 Private 🗀 Indian 🗀 Below-grade tank Type: Drilling Production Disposal BLOW Volume: bbl Type of fluid: Workover ☐ Emergency ☐ Construction materia Lined Unlined 🛛 Liner type: Synthetic Thickness mil Clay Pit Volume __ Less than 50 feet (20 points) Depth to ground water (vertical distance from bottom of pit to seasonal n 50 feet or more, but less than 100 feet (10 points) high water elevation of ground water.) 100 feet or more (0 points) Yes (20 points) Wellhead protection area: (Less than 200 feet from a private domestic 0 No (0 points) water source, or less than 1000 feet from all other water sources.) Less than 200 feet (20 points) Distance to surface water: (horizontal distance to all wetlands, playas, 200 feet or more, but less than 1000 feet (10 points) 0 irrigation canals, ditches, and perennial and ephemeral watercourses.) 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 your are burying in place) onsite 🔲 offsite 🔯 If offsite, name of facility BP CROUCH MESA LF (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 fl. and attach sample results. (5) Attach soil sample results and a diagram of sample locations and excavations. 75 FT. N5E Additional Comments: PIT LOCATED APPROXIMATELY FROM WELL HEAD? PIT EXCAVATION: WIDTH 15 ft., LENGTH 15 ft., DEPTH 6 PIT REMEDIATION: CLOSE AS IS: □, LANDFARM: □, COMPOST: □, STOCKPILE: □, OTHER ☒ EXCAVATE □ Cubic yards: 25 BEDROCK BOTTOM 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 alternative OCD-approved plan . 12/07/05 Date: Jeff Blagg – P.E. # 11607 Signature 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. FEB 2 8 2006 Approval: DEPUTY OIL & GAS INSPECTOR, DIST. & Printed Name/Title



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	Blagg / BP	Project #:	94034-010
Sample ID:	5-Point Composite @ 6'	Date Reported:	12-07-05
Laboratory Number:	35356	Date Sampled:	12-05-05
Chain of Custody No:	15180	Date Received:	12-05-05
Sample Matrix:	Soil	Date Extracted:	12-05-05
Preservative:	Cool	Date Analyzed:	12-07-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	2,420	0.2
Diesel Range (C10 - C28)	1,940	0.1
Total Petroleum Hydrocarbons	4,360	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 22 Blow Pit.

Analyst

Review (Review



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

	1		•	
Client:		Blagg / BP	Project #:	94034-010
Sample ID:		5-Point Composite @ 6'	Date Reported:	12-07-05
Laboratory Number:	į	35356	Date Sampled:	12-05-05
Chain of Custody:	:	15180	Date Received:	12-05-05
Sample Matrix:		Soil	Date Analyzed:	12-07-05
Preservative:		Cool	Date Extracted:	12-05-05
Condition:		Cool & Intact	Analysis Requested:	BTEX

	Concentration	Det. Limit	
Parameter	(ug/Kg)	(ug/Kg)	
Benzene	274	1.8	
Toluene	325	1.7	
Ethylbenzene	1,760	1.5	
p,m-Xylene	12,950	2.2	
o-Xylene	3,500	1.0	
Total BTFX	18 810		

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
i	Fluorobenzene	97.0 %
1	1,4-difluorobenzene	97.0 %
•	Bromochlorobenzene	97.0 %

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:

Mudge LS 22 Blow Pit.

Analyst C. Oxfun

(Review Malters



Chloride

Client:
Sample ID:
Lab ID#:
Sample Matrix:
Preservative:
Condition:

Blagg / BP 5-Point Composite @ 6' 35356 Soil

Soil Cool Cool and Intact Project #:
Date Reported:
Date Sampled:
Date Received:
Date Analyzed:
Chain of Custody:

12-05-05 12-05-05 12-06-05 15180

94034-010

12-07-05

Parameter

Concentration (mg/Kg)

Total Chloride

9.8

Reference:

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

Comments:

Mudge LS 22 Blow Pit.

Aristine m Walters
Analyst

Review

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 <u>District III</u> 1000 Rio Brazos Road, Aztec, NM 87410

<u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

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

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

Form C-144

June 1, 2004

Pit or Below-Grade Tank Registration or Closure

Is pit or below-grade tan Type of action: Registration of a pit of	k covered by a "general plan"? Yes 🛭 No or below-grade tank 🔲 Closure of a pit or below-gr	o 🔲 ade tank 🛛	
Operator: BP AMERICA PROD. CO. Address: 200 ENERGY COURT, FARMINGTON.		ail address:	
	API #: 30-045- 11057 U/L or Qtr/	On G S. 4 T 31N P 11W	
County: SAN JUAN Latitude 36.92888 Longitude 10		Owner Federal State Private Indian	
County: State County: Lantide Co. 2000 Longitude 10	NAD: 1927 1983 Surface C	wher rederal \(\square \) state \(\square \) Private \(\square \) Indian \(\square \)	
Pit Type: Drilling □ Production □ Disposal ☒ SEPARATOR	Below-grade tank Volume:bbl-Type-of-fluid:		
Workover ☐ Emergency ☐	Construction material:	_	
Lined Unlined 🗵	Double-walled, with leak ditection? Yes I If n	y, explain why not.	
Liner type: Synthetic Thicknessmil Clay [
Pit Volumebbl			
	Less than 50 feet	(20 points)	
Depth to ground water (vertical distance from bottom of pit to seasonal	50 feet or more, but less than 100 feet	(10 points) 0	
high water elevation of ground water.)	100 feet or more	(0 points)	
	Yes	(20 points)	
. Wellhead protection area: (Less than 200 feet from a private domestic	No	(0 points)	
water source, or less than 1000 feet from all other water sources.)			
Distance to surface water: (horizontal distance to all wetlands, playas,	Less than 200 feet	(20 points)	
irrigation canals, ditches, and perennial and ephemeral watercourses.)	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) Indic	ate disposal location: (check the onsite box if	
your 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 🛛 Y	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 excavation	s.	75.26.21.28.29	
Additional Comments: PIT LOCATED APPROXIMATELY	y 93 FT. S69W FROM WI	ELL HEAD	
PIT EXCAVATION: WIDTH N/Aft., LENGTH		FEB 2008	
PIT REMEDIATION: CLOSE AS IS: ⊠, LANDFARM: □, C			
Cubic yards: N/A		The inner is DIM of	
BEDROCK BOTTOM		\$ - 30 J. B 57	
		\$6. Q	
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 \(\mathbb{\infty} \), a general permit \(\mathbb{\infty} \), or an alternative OCD-approved plan \(\mathbb{\infty} \).			
Date: 12/07/05			
PrintedName/Title Jeff Blagg - P.E. # 11607	Signature The C	a series	
Your certification and NMOCD approval of this application/closure does not otherwise endanger public health or the environment. Nor does it relieve to regulations.	not relieve the operator of liability should the content he operator of its responsibility for compliance with	s of the pit or tank contaminate ground water or any other federal, state, or local laws and/or	
Approval: Printed Name/Title DEPUTY OIL & GAS INSPECTOR, DIST. SSI	gnature Bell Hell	Date:FEB 2 8 2006	

CLIENT: BP		BLAG P.O. BOX		NEERING OMFIELD	-	LOCA		B1719
			505) 632		·	, i	R NO:	15180
FIELD RE	PORT:	PIT CL	OSURE	VERIFI	CATIO	N PAGE	≣ No:l	of
OCATION: NAME	E: MUDG	ie LS	WELL#:	2Z TYPE	SEPALAT		STARTED:	
QUAD/UNIT: 6								2-5-05
QTR/FOOTAGE:	1850 FNL	× 1450 FE	CONTR	RACTOR: PES ((Fernando)	SPECI	ONMENTAL ALIST:	ICB
XCAVATION A	APPROX.	NA FT. x	<u>₩</u> ↑ FT.	x NA FT	DEEP. CI	JBIC YARD	AGE:	0
ISPOSAL FACILI	TY:	NA		REMEDIA	TION METH	OD: 4	LOSE A	5 15
	NGE- BLM		LEASE: SF	- 078051		FORMAT	ion: <u>Э</u> Н	<
TELD NOTES	& REMARK	S: PIT LOC	ATED APPROX	(IMATELY 93	FT.	569W	FROM	WELLHEAD.
EPTH TO GROUNDWA	ATER: >100						ER:>	1000
IMOCD RANKING SCO	_			5000 PF				
SOIL AND EX			ION:			READ. = 52		
SOIL AND EX	CAVATION	I DESCRIFT	1014.		OVM CALIB.	GAS = 100	DATE:	
OIL TYPE: SAND	/ SILTY SAND	V SILT (SILTY (CLAYY CLAY /	GRAVEL / OTH				<u> </u>
OIL COLOR:	Lite Ta	(
OHESION (ALL OTHE					COHESIVE			
ONSISTENCY (NON (CORESIVE SUIL							
LASTICITY (CLAYS):					/ HIGHI Y PI AST	TIC:		
ENSITY (COHESIVE	NON PLASTIC CLAYS & SILTS):	SLIGHTLY PLAST SOFT / FIRM / ST	TO/ COHESIVE /	MEDIUM PLASTIC / HARD	/ HIGHLY PLAST	ric		
ENSITY (COHESIVE (NON PLASTIC CLAYS & SILTS): IGHTLY MOIST	SLIGHTLY PLAST SOFT / FIRM / ST MOIST / WET / SAT	TO/COHESIVE/ IFF/VERY STIFF TURATED/SUPE	MEDIUM PLASTIC / HARD	/ HIGHLY PLAST	ric	Cio	560)
ENSITY (COHESIVE (OISTURE: DRY ÆLI ISCOLORATION/STAI	NON PLASTIC CLAYS & SILTS): IGHTLY MOIST INING OBSERVE	SLIGHTLY PLAST SOFT / FIRM / ST MOIST / WET / SAT ED: YES (NO) EXF	TO/COHESIVE/ IFF/VERY STIFF TURATED/SUPE	MEDIUM PLASTIC / HARD	/ HIGHLY PLAST	ric	Co	560)
ENSITY (COHESIVE (OISTURE: DRY (SLI ISCOLORATION/STAI C ODOR DETECTED: AMPLE TYPE: GRAE	NON PLASTIC CLAYS & SILTS): IGHTLY MOIST INING OBSERVE YES (NO) EXP COMPOSITE	SLIGHTLY PLAST SOFT / FIRM / ST MOIST / WET / SAT ED: YES (NO) EXF LANATION -	TO/ COHESIVE / IFF / VERY STIFF TURATED / SUPERLANATION -	MEDIUM PLASTIC / HARD R SATURATED			Cio	Sec there
ENSITY (COHESIVE (IOISTURE: DRY (SLI) ISCOLORATION/STAI C ODOR DETECTED: AMPLE TYPE: GRAE DDITIONAL COMMEN	NON PLASTIC CLAYS & SILTS): IGHTLY MOIST INING OBSERVE YES (NO) EXP COMPOSITE	SLIGHTLY PLAST SOFT / FIRM / ST MOIST / WET / SAT D: YES (NO) EXF LANATION - # OF PTS. 5	TO/ COHESIVE / I IFF / VERY STIFF FURATED / SUPE PLANATION -	MEDIUM PLASTIC / HARD	Depp Ecry	le_ P, Y.		
ENSITY (COHESIVE OF CONTROL OF COMMENT OF CO	NON PLASTIC CLAYS & SILTS): IGHTLY MOIST INING OBSERVE YES (NO) EXP COMPOSITE	SLIGHTLY PLAST SOFT / FIRM / ST MOIST / WET / SAT D: YES (NO) EXF LANATION - # OF PTS. 5	TO/ COHESIVE / I IFF / VERY STIFF FURATED / SUPE PLANATION -	MEDIUM PLASTIC / HARD R SATURATED	Depp Ecry	le_ P, Y.		
ENSITY (COHESIVE CONSTURE: DRY SEI	NON PLASTIC CLAYS & SILTS): IGHTLY MOIST INING OBSERVE YES (NO EXP B COMPOSITE ITS:	SLIGHTLY PLAST SOFT / FIRM / ST MOIST / WEJ / SAT D: YES (NO) EXF LANATION - # OF PTS. 5	TO/COHESIVE/ IFF/VERY STIFF TURATED/SUPE PLANATION - 12 Ollect Soup	MEDIUM PLASTIC / HARD R SATURATED ** 12 ** 3 PLOC FIRM ELD 418.1 CALC	Derp Ecry ~ Bodroc ULATIONS	ter P.Y. E Sonds	tire e	S 186.
ENSITY (COHESIVE (OISTURE: DRY (SLI ISCOLORATION/STAI C ODOR DETECTED: AMPLE TYPE: GRAE DDITIONAL COMMEN	NON PLASTIC CLAYS & SILTS): IGHTLY MOIST INING OBSERVE YES (NO) EXP COMPOSITE	SLIGHTLY PLAST SOFT / FIRM / ST MOIST / WEJ / SAT D: YES (NO) EXF LANATION - # OF PTS. 5	TO/COHESIVE/ IFF/VERY STIFF FURATED/SUPE PLANATION - (2 C Dilect Soup	MEDIUM PLASTIC I / HARD R SATURATED X 12 X 3	Derp Eery n Bedroc	ter P.Y. E Sonds	tire e	S 186.
ENSITY (COHESIVE OF CONTROL OF CONTROL OF COMMEN BEDROCK OF COMMENT OF	NON PLASTIC CLAYS & SILTS): IGHTLY MOIST INING OBSERVE YES (NO EXP B COMPOSITE ITS:	SLIGHTLY PLAST SOFT / FIRM / ST MOIST / WEJ / SAT D: YES (NO) EXF LANATION - # OF PTS. 5	TO/COHESIVE/ IFF/VERY STIFF TURATED/SUPE PLANATION - 12 Ollect Soup	MEDIUM PLASTIC / HARD R SATURATED ** 12 ** 3 PLOC FIRM ELD 418.1 CALC	Derp Ecry ~ Bodroc ULATIONS	ter P.Y. E Sonds	tire e	S 186.
ENSITY (COHESIVE OF CONTROL OF CONTROL OF COMMEN BEDROCK SCALE	NON PLASTIC CLAYS & SILTS): IGHTLY MOIST INING OBSERVE YES (NO) EXP B COMPOSITE ITS: SAMP. TIME	SLIGHTLY PLAST SOFT / FIRM / ST MOIST / WEJ / SAT ED: YES (NO) EXF LANATION - # OF PTS	TO/COHESIVE/ IFF/VERY STIFF TURATED/SUPE PLANATION - 12 Ollect Soup	MEDIUM PLASTIC / HARD R SATURATED ** 12 ** 3 PLOC FIRM ELD 418.1 CALC	Derp Ecry ~ Bodroc ULATIONS	ter P.Y. E Sonds DILUTION	reading	CALC. (ppm
ENSITY (COHESIVE OF CONTROL OF CONTROL OF COMMEN BEDROCK SCALE	NON PLASTIC CLAYS & SILTS): IGHTLY MOIST INING OBSERVE YES (NO EXP B COMPOSITE ITS:	SLIGHTLY PLAST SOFT / FIRM / ST MOIST / WEJ / SAT ED: YES (NO) EXF LANATION - # OF PTS. 5	TO/ COHESIVE / IFF / VERY STIFF TURATED / SUPE PLANATION - 12 FIE LAB NO.	MEDIUM PLASTIC / HARD R SATURATED ** 12 ** 3 ** PLACE FIRM ELD 418.1 CALC WEIGHT (g)	Derp Ecry ~ Bodroc ULATIONS	ter P.Y. E Sonds DILUTION	tire e	CALC. (ppm
ENSITY (COHESIVE OF CONTROL OF CONTROL OF COMMEN BEDROCK SCALE	NON PLASTIC CLAYS & SILTS): IGHTLY MOIST INING OBSERVE YES (NO) EXP B COMPOSITE ITS: SAMP. TIME	SLIGHTLY PLAST SOFT / FIRM / ST MOIST / WEJ / SAT ED: YES (NO) EXF LANATION - # OF PTS. 5	TO/COHESIVE/ IFF/VERY STIFF FURATED/SUPE PLANATION - 12 Tollect Soup FIE LAB NO.	MEDIUM PLASTIC I / HARD R SATURATED X 12 X 3 PLACE FIRM ELD 418.1 CALC WEIGHT (g) OVM ADING	Derp Ecry Bedroc ULATIONS ML FREON	ter P.Y. E Sonds DILUTION	reading	CALC. (ppm
ENSITY (COHESIVE OF CONTROL OF COMMENTAL COMMENTAL COMMENTAL COMMENTAL COMMENTAL COMMENTAL OF COMMENTAL CO	NON PLASTIC CLAYS & SILTS): IGHTLY MOIST INING OBSERVE YES (NO) EXP B COMPOSITE ITS: SAMP. TIME	SLIGHTLY PLAST SOFT / FIRM / ST MOIST / WEJ / SAT ED: YES (NO) EXF LANATION - # OF PTS	TO/ COHESIVE / IFF / VERY STIFF FURATED / SUPE PLANATION	MEDIUM PLASTIC I HARD R SATURATED X12 X3 PLACE FIRM ELD 418.1 CALC WEIGHT (g)	Derp Ecry Bedroc ULATIONS ML FREON	ter P.Y. E Sonds DILUTION	reading	CALC. (ppm
ENSITY (COHESIVE OF CONTURE: DRY SEI ISCOLORATION/STAIC ODOR DETECTED: AMPLE TYPE: GRAE DDITIONAL COMMEN BEDROCK SCALE O FT PIT PI	NON PLASTIC CLAYS & SILTS): IGHTLY MOIST INING OBSERVE YES (NO) EXP B COMPOSITE ITS: SAMP. TIME	SLIGHTLY PLAST SOFT / FIRM / ST MOIST / WEJ / SAT ED: YES (NO) EXF LANATION - # OF PTS. 5	FIE LAB NO.	MEDIUM PLASTIC / HARD R SATURATED **12 ** 3 PLACE FIRM ELD 418.1 CALC WEIGHT (g) OVM ADING FIELD HEADSPACE	Derp Ecry Bedroc ULATIONS ML FREON	DILUTION	reading	CALC. (ppm
ENSITY (COHESIVE OF CONTURE: DRY SEL ISCOLORATION/STAIC CODOR DETECTED: AMPLE TYPE: GRAED DITIONAL COMMEN BEDROCK BOTTOM SCALE O FT PIT PI	NON PLASTIC CLAYS & SILTS): IGHTLY MOIST INING OBSERVE YES (NO) EXP B COMPOSITE ITS: SAMP. TIME	SLIGHTLY PLAST SOFT / FIRM / ST MOIST / WEJ / SAT D: YES (NO) EXF LANATION - # OF PTS. 5 SAMP. ID	CONTROL OF THE PROPERTY OF THE	MEDIUM PLASTIC / HARD R SATURATED **12 ** 3 PLACE FIRM ELD 418.1 CALC WEIGHT (g) OVM ADING FIELD HEADSPACE	Derp Ecry Bedroc ULATIONS ML FREON	ter P.Y. E Sonds DILUTION	reading	CALC. (ppm
ENSITY (COHESIVE OF CONTROL OF COMMENTAL COMMENTAL COMMENTAL COMMENTAL COMMENTAL COMMENTAL OF CO	NON PLASTIC CLAYS & SILTS): IGHTLY MOIST INING OBSERVE YES (NO) EXP B COMPOSITE ITS: SAMP. TIME	SLIGHTLY PLAST SOFT / FIRM / ST MOIST / WEJ / SAT ED: YES (NO) EXF LANATION - # OF PTS. 5	TO/ COHESIVE / IFF / VERY STIFF FURATED / SUPE PLANATION - (2 To) (et Soup FIE LAB NO. CO REA SAMPLE 10 1 @ 2 @ 3 @ 4 @	MEDIUM PLASTIC / HARD R SATURATED **12 ** 3 PLACE FIRM ELD 418.1 CALC WEIGHT (g) OVM ADING FIELD HEADSPACE	Derp Ecry Bedroc ULATIONS ML FREON	DILUTION	reading	CALC. (ppm
ENSITY (COHESIVE COISTURE: DRY SEI ISCOLORATION/STAIC CODOR DETECTED: AMPLE TYPE: GRAED DITIONAL COMMEN SECALE SCALE O FT PIT PI	NON PLASTIC CLAYS & SILTS): IGHTLY MOIST INING OBSERVE YES (NO) EXP B COMPOSITE ITS: SAMP. TIME	SLIGHTLY PLAST SOFT / FIRM / ST MOIST / WEJ / SAT D: YES (NO) EXF LANATION - # OF PTS. 5 SAMP. ID	FIE LAB NO. COREA SAMPLE 10 10 20 30 40 50 60 COHESIVE / SOUT	MEDIUM PLASTIC / HARD R SATURATED **12 ** 3 PLACE FIRM ELD 418.1 CALC WEIGHT (g) OVM ADING FIELD HEADSPACE	Derp Ecry Bedroc ULATIONS ML FREON	DILUTION	reading	CALC. (ppm
ENSITY (COHESIVE OF CONTURE: DRY SEI ISCOLORATION/STAIC ODOR DETECTED: AMPLE TYPE: GRAE DDITIONAL COMMEN BEDROCK SCALE O FT PIT PI	NON PLASTIC CLAYS & SILTS): IGHTLY MOIST INING OBSERVE YES (NO) EXP B COMPOSITE ITS: SAMP. TIME	SLIGHTLY PLAST SOFT / FIRM / ST MOIST / WEJ / SAT D: YES (NO) EXF LANATION - # OF PTS. 5 SAMP. ID	FIE LAB NO. COREA SAMPLE 10 1 @ 2 @ 3 @ 4 @ 5 @ 6	MEDIUM PLASTIC / HARD R SATURATED **12 ** 3 PLACE FIRM ELD 418.1 CALC WEIGHT (g) OVM ADING FIELD HEADSPACE	Derp Ecry Bedroc ULATIONS ML FREON	DILUTION	reading	CALC. (ppm
ENSITY (COHESIVE COINTER DRY SEIN ISCOLORATION/STAIL COMMEN BEDROCK SCALE O FT PIT PI	NON PLASTIC CLAYS & SILTS): IGHTLY MOIST INING OBSERVE YES (NO) EXP B COMPOSITE ITS: SAMP. TIME	SLIGHTLY PLAST SOFT / FIRM / ST MOIST / WEJ / SAT D: YES (NO) EXF LANATION - # OF PTS. 5 SAMP. ID	FIE LAB NO. COREA SAMPLE 10 10 20 30 40 50 60 COHESIVE / SOUT	MEDIUM PLASTIC / HARD R SATURATED **12 ** 3 PLACE FIRM ELD 418.1 CALC WEIGHT (g) OVM ADING FIELD HEADSPACE	Derp Eery Bodice ULATIONS ML FREON	DILUTION PIT F	READING	CALC. (ppm
ENSITY (COHESIVE COINTER DRY SEIN ISCOLORATION/STAIL CODOR DETECTED: AMPLE TYPE: GRAE DDITIONAL COMMEN SCALE O FT PIT PI	NON PLASTIC CLAYS & SILTS): IGHTLY MOIST INING OBSERVE YES (NO) EXP B COMPOSITE ITS: SAMP. TIME	SLIGHTLY PLAST SOFT / FIRM / ST MOIST / WEJ / SAT ED: YES (NO) EXF LANATION - # OF PTS. 5 SAMP. ID	FIE LAB NO. COREA SAMPLE 10 10 10 COREA SAMPLE 10 10 20 30 40 50 COREA	MEDIUM PLASTIC / HARD R SATURATED ** 12 ** 3 PLOC FIRM ELD 418.1 CALC WEIGHT (g) OVM ADING FIELD HEADSPACE (ppm)	Derp Eery Bodice ULATIONS ML FREON	DILUTION	READING	CALC. (ppm
ENSITY (COHESIVE CONSTRUCTION OF THE PIT	NON PLASTIC CLAYS & SILTS): IGHTLY MOIST INING OBSERVE YES (NO) EXP B COMPOSITE ITS: SAMP. TIME ERIMETE	SLIGHTLY PLAST SOFT / FIRM / ST MOIST / WEJ / SAT ED: YES (NO) EXF LANATION - # OF PTS. 5 SAMP. ID	FIE LAB NO. CORES SAMPLE 10 10 20 30 40 50 CORES SAMPLE 10 10 10 10 10 10 10 10 10 10 10 10 10	MEDIUM PLASTIC / HARD R SATURATED ** 12 ** 3 PLACE FIRM ELD 418.1 CALC WEIGHT (g) OVM ADING FIELD HEADSPACE (ppm) AMPLES	Derp Early Bodroe ULATIONS ML FREON	DILUTION PIT F	READING	CALC. (ppm
SCALE O FT PIT PI	NON PLASTIC CLAYS & SILTS): IGHTLY MOIST INING OBSERVE YES (NO) EXP B COMPOSITE ITS: SAMP. TIME ERIMETE	SLIGHTLY PLAST SOFT / FIRM / ST MOIST / WEJ / SAT ED: YES (NO) EXF LANATION - # OF PTS. 5 SAMP. ID	FIE LAB NO. COREA SAMPLE 10 10 20 30 40 5-POINT CONFORM LAB SAMPLE 10 10 10 10 10 10 10 10 10 10 10 10 10	MEDIUM PLASTIC / HARD R SATURATED **C12 **3 PLOC FIRM ELD 418.1 CALC WEIGHT (g) OVM ADING FIELD HEADSPACE (ppm) AMPLES NALYSIS TIME PIY L134	Derp Early Bodroe ULATIONS mL FREON	DILUTION PIT F	READING	CALC. (ppm
ENSITY (COHESIVE CONSTRUCTION OF THE PIT	NON PLASTIC CLAYS & SILTS): IGHTLY MOIST INING OBSERVE YES (NO) EXP B COMPOSITE ITS: SAMP. TIME ERIMETE	SLIGHTLY PLAST SOFT / FIRM / ST MOIST / WEJ / SAT ED: YES (NO) EXF LANATION - # OF PTS. 5 SAMP. ID	FIE LAB NO. CORES SAMPLE 1D 1@ 2@ 3@ 4@ 5-PONT CONFORM SAMPLE 1D 1.00 5-PONT CONFORM SAMPLE 1D	MEDIUM PLASTIC / HARD R SATURATED **(12 ** 3 ** **PICA FIRM ELD 418.1 CALC WEIGHT (g) OVM ADING FIELD HEADSPACE (ppm) AMPLES NALYSIS TIME PIT [134]	Derp Early Bodroe ULATIONS mL FREON	DILUTION PIT F	READING	CALC. (ppm
ENSITY (COHESIVE COINTER DRY SEIN ISCOLORATION/STAIL COMMEN BEDROCK SCALE O FT PIT PI	NON PLASTIC CLAYS & SILTS): IGHTLY MOIST INING OBSERVE YES (NO) EXP B COMPOSITE ITS: SAMP. TIME ERIMETE	SLIGHTLY PLAST SOFT / FIRM / ST MOIST / WEJ / SAT D: YES (NO) EXF LANATION - # OF PTS. 5 SAMP. ID SAMP. ID	FIE LAB NO. COMPANDE TO SAMPLE TO S	MEDIUM PLASTIC / HARD R SATURATED **(12 ** 3 ** **PICA FIRM ELD 418.1 CALC WEIGHT (g) OVM ADING FIELD HEADSPACE (ppm) AMPLES NALYSIS TIME PIT [134]	Derp Early Bodroe ULATIONS mL FREON	DILUTION PIT F	READING	CALC. (ppm



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	Blagg / BP	Project #:	94034-010
Sample ID:	5-Point Composite @ 5'	Date Reported:	12-07-05
Laboratory Number:	35355	Date Sampled:	12-05-05
Chain of Custody No:	15180	Date Received:	12-05-05
Sample Matrix:	Soil	Date Extracted:	12-05-05
Preservative:	Cool	Date Analyzed:	12-07-05
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:

Mudge LS 22 Sep Pit.

Analyst

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EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / BP	Project #:	94034-010
Sample ID:	5-Point Composite @ 5'	Date Reported:	12-07-05
Laboratory Number:	35355	Date Sampled:	12-05-05
Chain of Custody:	15180	Date Received:	12-05-05
Sample Matrix:	Soil	Date Analyzed:	12-07-05
Preservative:	Cool	Date Extracted:	12-05-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)	
Benzene	6.8	1.8	
Toluene	10.4	1.7	
Ethylbenzene	3.0	1.5	
p,m-Xylene	52.9	2.2	
o-Xylene	11.0	1.0	
Total BTEX	84.1		

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	97.0 %
	1,4-difluorobenzene	97.0 %
÷.	Bromochlorobenzene	97.0 %

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:

Mudge LS 22 Sep Pit.

Analyst Cylum

Mustine of Walter



Chloride

Client:	:	Blagg / BP	Project #:	94034-010
Sample ID:	1	5-Point Composite @ 5'	Date Reported:	12-07-05
Lab ID#:		35355	Date Sampled:	12-05-05
Sample Matrix:		Soil	Date Received:	12-05-05
Preservative:		Cool	Date Analyzed:	12-06-05
Condition:	1	Cool and Intact	Chain of Custody:	15180
			•	

Parameter

Concentration (mg/Kg)

Total Chloride

21.8

Reference:

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

Comments:

Mudge LS 22 Sep Pit.

Analyst Malter

Review C. Cymrus