

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>GCU # 240</u> API # <u>3004511739</u> U/L or Qtr/Qtr <u>K</u> Sec <u>24</u> T <u>28</u> N <u>R</u> <u>13</u> W		
County <u>San Juan</u> Latitude _____ Longitude _____ NAD: 1927 <input type="checkbox"/> 1983 <input checked="" type="checkbox"/>		
Surface Owner Federal <input type="checkbox"/> State <input type="checkbox"/> Private <input checked="" type="checkbox"/> Indian <input type="checkbox"/>		
Pit Type Drilling <input type="checkbox"/> Production <input checked="" type="checkbox"/> Disposal <input type="checkbox"/> Workover <input type="checkbox"/> Emergency <input type="checkbox"/> Lined <input type="checkbox"/> Unlined <input checked="" type="checkbox"/> Liner type Synthetic <input type="checkbox"/> Thickness _____ mil Clay <input type="checkbox"/> Pit Volume _____ bbl		
Below-grade tank Volume: _____ bbl Type of fluid _____ Construction material _____ Double-walled, with leak detection? Yes <input type="checkbox"/> If no, 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)
	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)
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)
	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 <input checked="" type="checkbox"/> , a general permit <input type="checkbox"/> , or an (attached) alternative OCD-approved plan <input type="checkbox"/> .		
Date <u>11/01/2005</u>		
Printed Name/Title <u>Jeffrey C. Blagg, Agent</u>	Signature <u>Jeffrey C. Blagg</u>	
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		
Printed Name/Title <u>Deputy Oil & Gas Inspector, District #3</u>	Signature <u>[Signature]</u>	Date <u>AUG 10 2007</u>

CLIENT: <u>BP</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>81194</u> COCR NO: <u>10826</u>
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FIELD REPORT: PIT CLOSURE VERIFICATION PAGE No: 1 of 1

LOCATION: NAME: <u>GCU</u> WELL #: <u>240</u> TYPE: <u>SEP</u>	DATE STARTED: <u>4-15-03</u> DATE FINISHED: <u>4-15-03</u>
QUAD/UNIT: <u>K SEC: 24 TWP: 28N RNG: 13W PM: NM CNTY: SJ ST: NM</u>	ENVIRONMENTAL SPECIALIST: <u>JCB</u>
QTR/FOOTAGE: <u>1470'S/1770'W</u> NE/SW CONTRACTOR: <u>FLINT (BEN)</u>	

EXCAVATION APPROX. 15 FT. x 15 FT. x 7 FT. DEEP. CUBIC YARDAGE: 40

DISPOSAL FACILITY: ONSITE L.F. REMEDIATION METHOD: L.F.

LAND USE: RANGE-BLM LEASE: BLM 7839 AC REFORMATION: DK

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 156 FT. S34°W FROM WELLHEAD.

DEPTH TO GROUNDWATER: >100 NEAREST WATER SOURCE: >1000 NEAREST SURFACE WATER: >1000

NMOC D RANKING SCORE: 0 NMOC D TPH CLOSURE STD: 5000 PPM

SOIL AND EXCAVATION DESCRIPTION:

SOIL TYPE: SAND / SILTY SAND / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER BEDROCK S.S.

SOIL COLOR: CLOSED

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: 2'-6 1/2" BLACK

HC ODOR DETECTED: YES NO EXPLANATION: MODERATE

SAMPLE TYPE: GRAB COMPOSITE: # OF PTS.

ADDITIONAL COMMENTS: EARTHEN PIT, ORIGINAL SIZE 12'x12'x3', EXCAVATED IN BEDROCK SAND-STONE. USE BACKHOE TO ENLARGE TO 15'x15'x7' TO INSTALL 95 BBL STEEL TANK. BLACK STAINING ALONG SIDEWALLS 2'-6 1/2"

BEDROCK BOTTOM

SCALE: 0 FT

SAMP. TIME	SAMP. ID	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. (ppm)

FIELD 418.1 CALCULATIONS

SAMP. TIME	SAMP. ID	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. (ppm)

PIT PERIMETER: 15' x 15' x 7'

PIT PROFILE: 15' x 7' x 15'

TO WELL

OVM READING

SAMPLE ID	FIELD HEADSPACE (ppm)
1 @ 7'	352
2 @ 7'	436
3 @ 7'	605
4 @ 7'	315
5 @ 7'	288

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME
3 @ 7'	TPH/BTEX	1134

BOTH PASSED

BLACK STAINING

BEDROCK SANDSTONE

TRAVEL NOTES: CALLOUT: 4-15-03 0915 ONSITE: 4-15-03 1030

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons


Client:	Blagg / BP	Project #:	94034-010
Sample ID:	Sep #3 @ 7'	Date Reported:	04-16-03
Laboratory Number:	25345	Date Sampled:	04-15-03
Chain of Custody No:	10826	Date Received:	04-15-03
Sample Matrix:	Soil	Date Extracted:	04-16-03
Preservative:	Cool	Date Analyzed:	04-16-03
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

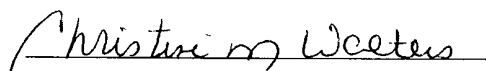
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	871	0.2
Diesel Range (C10 - C28)	213	0.1
Total Petroleum Hydrocarbons	1,080	0.2

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: **GCU 240.**


Analyst


Review

ENVIROTECH INC.

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / BP	Project #:	94034-010
Sample ID:	Sep #3 @ 7'	Date Reported:	04-16-03
Laboratory Number:	25345	Date Sampled:	04-15-03
Chain of Custody:	10826	Date Received:	04-15-03
Sample Matrix:	Soil	Date Analyzed:	04-16-03
Preservative:	Cool	Date Extracted:	04-16-03
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	76.5	1.8
Toluene	457	1.7
Ethylbenzene	493	1.5
p,m-Xylene	2,070	2.2
o-Xylene	926	1.0
Total BTEX	4,020	

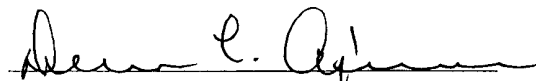
ND - Parameter not detected at the stated detection limit.

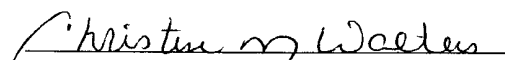
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	96 %
	1,4-difluorobenzene	96 %
	Bromochlorobenzene	96 %

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: GCU 240.


Analyst


Review

CLIENT: BPBLAGG ENGINEERING, INC.
P.O. BOX 87, BLOOMFIELD, NM 87413
(505) 632-1199LOCATION NO: B1194C.O.C. NO: HALL

FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: NAME: GCU WELL #: 240 PITS: _____
QUAD/UNIT: K SEC: 24 TWP: 28N RNG: 13W PM: NM CNTY: ST ST: NM
QTR/FOOTAGE: _____ NE/SW CONTRACTOR: _____DATE STARTED: 4/24/07
DATE FINISHED: _____ENVIRONMENTAL
SPECIALIST: NV

SOIL REMEDIATION:

REMEDIATION SYSTEM: LANDFARM

APPROX. CUBIC YARDAGE: _____

LAND USE: RANGE - BOLACK PROPERTYLIFT DEPTH (ft): 1-2

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 PPMSOIL TYPE: SAND / SILTY SAND / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER _____SOIL COLOR: VARYING SHADES OF BROWNCOHESION (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

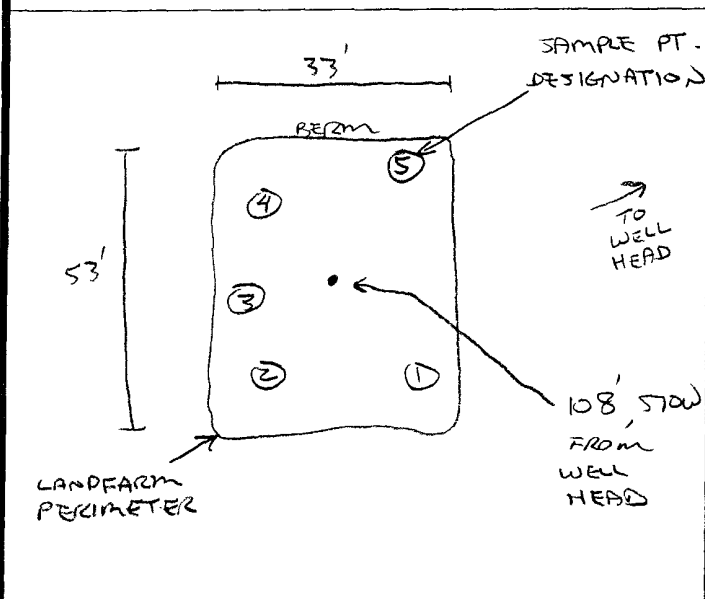
DENSITY (COHESIVE CLAYS & SILTS): SOFT / FIRM / STIFF / VERY STIFF / HARD

MOISTURE: DRY / SLIGHTLY MOIST / MOIST / WET / SATURATED / SUPER SATURATEDDISCOLORATION/STAINING OBSERVED: YES / NO EXPLANATION - _____HC ODOR DETECTED: YES / NO EXPLANATION - _____SAMPLING DEPTHS (LANDFARMS): 6-15 (INCHES)SAMPLE TYPE: GRAB / COMPOSITE # OF PTS. 5

ADDITIONAL COMMENTS: _____

CLOSED

SKETCH/SAMPLE LOCATIONS

OVM CALIB. READ. = 52.2 ppm
OVM CALIB. GAS = 100 ppm RF = 0.52
TIME: 11:50 @m/pm DATE: 4/24/07

OVM RESULTS

LAB SAMPLES

SAMPLE ID	FIELD HEADSPACE (ppm)	SAMPLE ID	ANALYSIS	TIME	RESULTS (ppm)
LF-1	0.0	LF-1	TPH (8015B)	1145	59
		"	CHLOR.	"	1000

P.C. - 4/15/03

SCALE

0 FT

TRAVEL NOTES: CALLOUT: N/AONSITE: 4/24/07

Hall Environmental Analysis Laboratory, Inc.

Date: 01-May-07

CLIENT: Blagg Engineering
Lab Order: 0704375
Project: GCU #240
Lab ID: 0704375-01

Client Sample ID: LF-1 Landfarm
Collection Date: 4/24/2007 11:45:00 AM
Date Received: 4/25/2007
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	59	10		mg/Kg	1	4/27/2007 11:45:09 AM
Surr: DNOP	98.2	61.7-135		%REC	1	4/27/2007 11:45:09 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/27/2007 4:29:26 AM
Surr: BFB	112	84-138		%REC	1	4/27/2007 4:29:26 AM
EPA METHOD 9056A: ANIONS						Analyst: TES
Chloride	1000	6.0		mg/Kg	20	4/30/2007 10:21:38 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION
P.O. BOX 2088
SANTA FE, NEW MEXICO 87504-2088

B1194

SUBMIT 1 COPY TO
APPROPRIATE
DISTRICT OFFICE
AND 1 COPY TO
SANTA FE OFFICE

PIT REMEDIATION AND CLOSURE REPORT

Operator: BP AMERICA PRODUCTION CO. Telephone: (505) 326-9200

Address: 200 ENERGY COURT, FARMINGTON, NM 87401

Facility or Well Name: BCU #240

Location: Unit or Qtr/Qtr Sec K Sec 24 T 28N R 13W County San Juan

Pit Type: Separator ☐ Dehydrator ☐ Other Blow

Land Type: BLM ☒ State ☐ Fee ☒ Other ☐

Pit Location:
(Attach diagram)

Pit dimensions: length NA, width NA, depth NA

Reference: wellhead ☒ other ☐

Footage from reference: 156'

Direction from reference: 45 Degrees ☒ East ☒ North
of
☐ West ☐ South

Depth To Groundwater:

(Vertical distance from
contaminants to seasonal
high water elevation of
groundwater)

Less than 50 feet	(20 points)	
50 feet to 99 feet	(10 points)	
Greater than 100 feet	(0 points)	<u>0</u>

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 perennial
lakes, ponds, rivers, streams, creeks,
irrigation canals and ditches)

Less than 100 feet	(20 points)	
100 feet to 1000 feet	(10 points)	
Greater than 1000 feet	(0 points)	<u>0</u>

RANKING SCORE (TOTAL POINTS): 0

Blow Pit

Date Remediation Started: _____

Date Completed: 4-16-03

Remediation Method:
(Check all appropriate sections)

Excavation X

Approx. cubic yards NA

Landfarmed _____

Insitu Bioremediation _____

Other CLOSE AS IS.

Remediation Location:

Onsite X Offsite _____

(i.e. landfarmed onsite,
name and location of
offsite facility)

General Description of Remedial Action: Excavation. Test hole advanced. No remediation necessary.

Groundwater Encountered: No X Yes _____ Depth _____

Final Pit
Closure Sampling:

(if multiple samples,
attach sample results
and diagram of sample
locations and depths)

Sample location see Attached Documents

Sample depth 7' (Test hole bottom)

Sample date 4-15-03 Sample time 1206

Sample Results

Soil: Benzene (ppm) _____ Water: Benzene (ppb) _____

Total BTEX (ppm) _____ Toluene (ppb) _____

Field Headspace (ppm) 27 Ethylbenzene (ppb) _____

TPH (ppm) ND Total Xylenes (ppb) _____

Groundwater Sample: Yes _____ No X (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 4-16-03 PRINTED NAME Jeffrey C. Blagg

SIGNATURE Jeffrey C. Blagg AND TITLE President P.E. # 11607

District I
P.O. Box 1990, Hobbs, NM
District II
P.O. Box 1990, Artesia, NM
District III
1000 Rio Bravo Rd., Alamo, NM

State of New Mexico
Energy, Minerals and Natural Resources Department
OIL CONSERVATION DIVISION
P.O. BOX 2088
SANTA FE, NEW MEXICO 87504-2088

B1194
SUBMIT 1 COPY TO
APPROPRIATE
DISTRICT OFFICE
AND 1 COPY TO
SANTA FE OFFICE

PIT REMEDIATION AND CLOSURE REPORT

Operator: BP AMERICA PRODUCTION CO. Telephone: (505) 326-9200

Address: 200 ENERGY COURT, FARMINGTON, NM 87401

Facility or Well Name: GCU #240

Location: Unit or Qtr/Qtr Sec K Sec 24 T 28N R 13W County San Juan

Pit Type: Separator ☒ Dehydrator ☐ Other ☐

Land Type: BLM ☒ State ☐ Fee ☒ Other ☐

Pit Location: Pit dimensions: length NA, width NA, depth NA
(Attach diagram)

Reference: wellhead X, other

Footage from reference: 156

Direction from reference: 34 Degrees East North
 West of South ☒

Depth To Groundwater:	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)	<u>0</u>
high water elevation of			
groundwater)			

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

Distance To Surface Water:	Less than 100 feet	(20 points)	
(Horizontal distance to perennial	100 feet to 1000 feet	(10 points)	
lakes, ponds, rivers, streams, creeks,	Greater than 1000 feet	(0 points)	<u>0</u>
irrigation canals and ditches)			

RANKING SCORE (TOTAL POINTS): 0

Sep pit B 1194

Date Remediation Started: _____

Date Completed: 4-16-03

Remediation Method:

Excavation ☒ KAG

Approx. cubic yards NA 40 KAG

(Check all appropriate sections)

Landfarmed ☒

In situ Bioremediation _____

Other CLOSE AS IS.

Remediation Location:

Onsite ☒ Offsite _____

(i.e. landfarmed onsite, name and location of offsite facility)

General Description of Remedial Action: Excavation. Test hole advanced. No remediation necessary.

Bedrock Bottom

Groundwater Encountered: No ☒ Yes _____ Depth _____

Final Pit Closure Sampling:

(If multiple samples, attach sample results and diagram of sample locations and depths)

Sample location see Attached Documents

Sample depth 7' (Test hole bottom)

Sample date 4-15-03 Sample time 1134

Sample Results

Soil: Benzene	(ppm) <u>0.0765</u>	Water: Benzene	(ppb) _____
Total BTEX	(ppm) <u>4.020</u>	Toluene	(ppb) _____
Field Headspace	(ppm) <u>605</u>	Ethylbenzene	(ppb) _____
TPH	(ppm) <u>1080</u>	Total Xylenes	(ppb) _____

Groundwater 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 4-16-03 PRINTED NAME Jeffrey C. Blagg

SIGNATURE Jeffrey C. Blagg AND TITLE President P.E. # 11607

CHAIN OF CUSTODY RECORD

10826

Client / Project Name BLAGG/BP			Project Location GCV 240		ANALYSIS / PARAMETERS									
Sampler: J-C. Blagg			Client No. 94034-010		No. of Containers	TPH	8015	BTEX	8021					Remarks
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix										
#3 SEP @ 7'	4/15/03	1134	25345	SOIL	1	X	X							
#1 BLW @ 7'	"	1206	25346	"	1	X								
Relinquished by: (Signature) J-C. Blagg			Date 4/15/03	Time 1336	Received by: (Signature) Christ M Wells					Date 4/15/03	Time 13:30			
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	✓		

EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	04-16-TPH QA/QC	Date Reported:	04-16-03
Laboratory Number:	25345	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	04-16-03
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF	C-Cal RF	% Difference	Accept. Range
Gasoline Range C5 - C10	04-25-02	2.7355E-002	2.7328E-002	0.10%	0 - 15%
Diesel Range C10 - C28	04-25-02	2.4557E-002	2.4508E-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

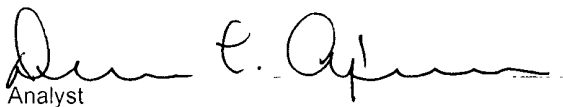
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	871	867	0.4%	0 - 30%
Diesel Range C10 - C28	213	212	0.3%	0 - 30%

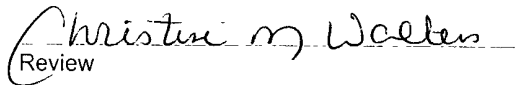
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	871	250	1,120	99.9%	75 - 125%
Diesel Range C10 - C28	213	250	462	99.8%	75 - 125%

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 25345 - 25346.


Analyst


Review

Client	N/A	Project #:	N/A
Sample ID	04-16-BTEX QA/QC	Date Reported:	04-16-03
Laboratory Number	25345	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative	N/A	Date Analyzed:	04-16-03
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	4.1274E-002	4.1398E-002	0.3%	ND	0.2
Toluene	4.8348E-002	4.8445E-002	0.2%	ND	0.2
Ethylbenzene	7.9848E-002	8.0088E-002	0.3%	ND	0.2
p,m-Xylene	7.6417E-002	7.6647E-002	0.3%	ND	0.2
o-Xylene	7.1539E-002	7.1683E-002	0.2%	ND	0.1

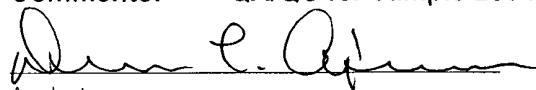
Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	76.5	76.8	0.4%	0 - 30%	1.8
Toluene	457	448	2.0%	0 - 30%	1.7
Ethylbenzene	493	483	2.0%	0 - 30%	1.5
p,m-Xylene	2,070	2,060	0.5%	0 - 30%	2.2
o-Xylene	926	930	0.4%	0 - 30%	1.0

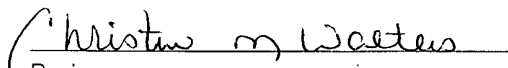
Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	76.5	50.0	126	99.9%	39 - 150
Toluene	457	50.0	506	99.8%	46 - 148
Ethylbenzene	493	50.0	542	99.8%	32 - 160
p,m-Xylene	2,070	100	2,160	99.5%	46 - 148
o-Xylene	926	50.0	975	99.9%	46 - 148

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 sample 25345.


Analyst


Review

**HALL ENVIRONMENTAL
ANALYSIS LABORATORY**
4901 Hawkins NE, Suite D
Albuquerque, New Mexico 87109
Tel. 505.345.3975 Fax 505.345.4900
www.hallenvironmental.com

Project #:	
Project Manager:	NV
Sampler:	NV
Sample Temperature:	P

Sampler:	NV
Sample Temperature:	10

[illegible]

Date: 12/4/07	Time: 1345	Relinquished By: (Signature) <i>[Signature]</i>	Received By: (Signature) <i>[Signature]</i>
Date:	Time:	Relinquished By: (Signature)	Received By: (Signature)

ANALYSIS REQUEST

[illegible]

Remarks: GAS & DIESEL RANGES ONLY
ON TPH ANALYSIS.
5 PT. COMPOSITE SAMPLE

QA/QC SUMMARY REPORT

Client: Blagg Engineering

Project: GCU #240

Work Order: 0704375

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW9056A									
Sample ID: MB-12825		MBLK				Batch ID: 12825	Analysis Date: 4/29/2007 2:03:46 PM		
Chloride	ND	mg/Kg	0.30						
Sample ID: LCS-12825		LCS				Batch ID: 12825	Analysis Date: 4/29/2007 2:21:10 PM		
Chloride	14.52	mg/Kg	0.30	96.8	90	110			
Method: SW8015									
Sample ID: MB-12814		MBLK				Batch ID: 12814	Analysis Date: 4/27/2007 9:29:02 AM		
Diesel Range Organics (DRO)	ND	mg/Kg	10						
Sample ID: LCS-12814		LCS				Batch ID: 12814	Analysis Date: 4/27/2007 9:52:16 AM		
Diesel Range Organics (DRO)	40.47	mg/Kg	10	80.9	64.6	116			
Sample ID: LCSD-12814		LCSD				Batch ID: 12814	Analysis Date: 4/27/2007 10:36:20 AM		
Diesel Range Organics (DRO)	39.63	mg/Kg	10	79.3	64.6	116	2.08	17.4	
Method: SW8015									
Sample ID: MB-12807		MBLK				Batch ID: 12807	Analysis Date: 4/27/2007 12:29:07 AM		
Gasoline Range Organics (GRO)	ND	mg/Kg	5.0						
Sample ID: LCS-12807		LCS				Batch ID: 12807	Analysis Date: 4/27/2007 12:59:14 AM		
Gasoline Range Organics (GRO)	24.94	mg/Kg	5.0	85.0	69.5	120			
Sample ID: LCSD-12807		LCSD				Batch ID: 12807	Analysis Date: 4/27/2007 1:29:17 AM		
Gasoline Range Organics (GRO)	24.86	mg/Kg	5.0	84.7	69.5	120	0.321	11.6	

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name **BLAGG**

Date and Time Received:

4/25/2007

Work Order Number **0704375**

Received by **TLS**

Checklist completed by

pmya Sh
Signature

APR 25 07
Date

Matrix

Carrier name UPS

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Custody seals intact on shipping container/cooler?

Yes ☒

No ☐

Not Present ☐

Not Shipped ☐

Custody seals intact on sample bottles?

Yes ☐

No ☐

N/A ☒

Chain of custody present?

Yes ☒

No ☐

Chain of custody signed when relinquished and received?

Yes ☒

No ☐

Chain of custody agrees with sample labels?

Yes ☒

No ☐

Samples in proper container/bottle?

Yes ☒

No ☐

Sample containers intact?

Yes ☒

No ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

All samples received within holding time?

Yes ☒

No ☐

Water - VOA vials have zero headspace?

No VOA vials submitted ☒

Yes ☐

No ☐

Water - Preservation labels on bottle and cap match?

Yes ☐

No ☐

N/A ☒

Water - pH acceptable upon receipt?

Yes ☐

No ☐

N/A ☒

Container/Temp Blank temperature?

1°

4° C ± 2 Acceptable

If given sufficient time to cool.

COMMENTS:

Client contacted

Date contacted:

Person contacted

Contacted by:

Regarding

Comments:

Corrective Action