

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>NEIL LS # 20</u> API #: <u>30045 23180</u> U/L or Qtr/Qtr <u>K</u> Sec <u>33</u> T <u>32</u> N R <u>11</u> W County: <u>San Juan</u> Latitude _____ Longitude _____ NAD: 1927 <input type="checkbox"/> 1983 <input checked="" type="checkbox"/> Surface Owner Federal <input checked="" type="checkbox"/> State <input type="checkbox"/> Private <input 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 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 50 feet or more, but less than 100 feet 100 feet or more	(20 points) (10 points) (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 No	(20 points) (0 points)
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses)	Less than 200 feet 200 feet or more, but less than 1000 feet 1000 feet or more	(20 points) (10 points) (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	RCVD JUN13'07 OIL CONS. DIV. DIST. 3
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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

Your certification and NMOC 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

Deputy Oil & Gas Inspector,
District #3

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>B1246</u> COCR NO: <u>9833</u>																																													
FIELD REPORT: PIT CLOSURE VERIFICATION		PAGE No: <u>1</u> of <u>1</u>																																													
LOCATION: NAME: <u>NEIL LS</u> WELL#: <u>ZO</u> TYPE: <u>SEP.</u> QUAD/UNIT <u>K</u> SEC: <u>33</u> TWP: <u>32N</u> RNG: <u>11W</u> PM: <u>NM</u> CNTY: <u>SJ</u> ST: <u>Nm</u> QTR/FOOTAGE: <u>1710'S/1630'W</u> NE/SW CONTRACTOR: <u>HDI (WEBER)</u>		DATE STARTED: <u>7/2/03</u> DATE FINISHED: _____ ENVIRONMENTAL SPECIALIST: <u>NV</u>																																													
EXCAVATION APPROX. <u>9</u> FT. x <u>19</u> FT. x <u>3.5</u> FT. DEEP. CUBIC YARDAGE: <u>20</u>																																															
DISPOSAL FACILITY: <u>ON-SITE</u> REMEDIATION METHOD: <u>LANDFARM</u>																																															
LAND USE: <u>RANGE-BLM</u> LEASE: <u>SF078051</u> FORMATION: <u>PC</u>																																															
FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY <u>23</u> FT. <u>N62E</u> FROM WELLHEAD DEPTH TO GROUNDWATER: <u>>100'</u> NEAREST WATER SOURCE: <u>>1000'</u> NEAREST SURFACE WATER: <u>>1000'</u> NMOC D RANKING SCORE: <u>0</u> NMOC D TPH CLOSURE STD: <u>5000</u> PPM																																															
SOIL AND EXCAVATION DESCRIPTION: SOIL TYPE <u>(SAND)</u> SILTY SAND / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER <u>BEDROCK (SANDSTONE)</u> SOIL COLOR <u>LT. TO DK. GRAY</u> <u>BEDROCK - DK. GRAY</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): <u>SOFT</u> / FIRM / STIFF / VERY STIFF / HARD MOISTURE DRY / <u>SLIGHTLY MOIST</u> / <u>MOIST</u> / WET / SATURATED / SUPER SATURATED DISCOLORATION/STAINING OBSERVED <u>(YES)</u> NO EXPLANATION. <u>LT. TO DK. GRAY</u> HC ODOR DETECTED <u>(YES)</u> NO EXPLANATION. <u>EXCAVATION & OVM SAMPLE.</u>		OVM CALIB. READ. = <u>53.1</u> ppm OVM CALIB. GAS = <u>100</u> ppm RF = 0.52 TIME: <u>12:38</u> am/pm DATE <u>7/2/03</u>																																													
SAMPLE TYPE <u>GRAB</u> COMPOSITE. # OF PTS. <u>-</u> ADDITIONAL COMMENTS <u>COLLECTED SAMPLE FROM BEDROCK SURFACE. BEDROCK - VERY HARD,</u> <u>BEDROCK BOTTOM</u> <u>COMPETENT. STEEL TANK TO BE INSTALLED.</u>																																															
FIELD 418.1 CALCULATIONS																																															
SCALE 0 FT	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>SAMP. TIME</th> <th>SAMP. ID</th> <th>LAB NO.</th> <th>WEIGHT (g)</th> <th>mL FREON</th> <th>DILUTION</th> <th>READING</th> <th>CALC (ppm)</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	SAMP. TIME	SAMP. ID	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC (ppm)																																						
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D = PIT DEPRESSION; B.G. = BELOW GRADE; B = BELOW T.H. = TEST HOLE. - = APPROX.; T.B. = TANK BOTTOM																																															
TRAVEL NOTES CALLOUT: <u>7/2/03 - MORN.</u> ONSITE: <u>7/2/03 - AFTER.</u>																																															

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

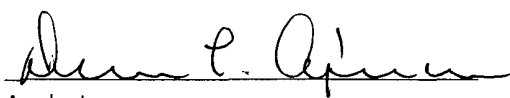
Client:	Blagg / BP	Project #:	94034-010
Sample ID:	1 @ 6'	Date Reported:	07-03-03
Laboratory Number:	26036	Date Sampled:	07-02-03
Chain of Custody No:	09833	Date Received:	07-03-03
Sample Matrix:	Soil	Date Extracted:	07-03-03
Preservative:	Cool	Date Analyzed:	07-03-03
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

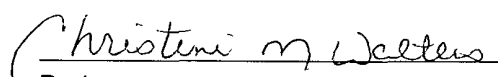
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	317	0.2
Diesel Range (C10 - C28)	52.4	0.1
Total Petroleum Hydrocarbons	369	0.2

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: **Neil LS #20 Separator 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:	07-03-03
Laboratory Number:	26036	Date Sampled:	07-02-03
Chain of Custody:	09833	Date Received:	07-03-03
Sample Matrix:	Soil	Date Analyzed:	07-03-03
Preservative:	Cool	Date Extracted:	07-03-03
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	48.5	1.8
Toluene	982	1.7
Ethylbenzene	615	1.5
p,m-Xylene	2,240	2.2
o-Xylene	1,110	1.0
Total BTEX	5,000	

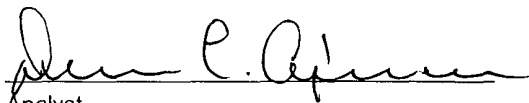
ND - Parameter not detected at the stated detection limit.

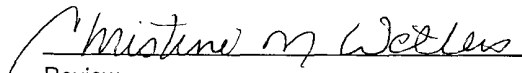
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	99 %
	1,4-difluorobenzene	99 %
	Bromochlorobenzene	99 %

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: Neil LS #20 Separator Pit Grab Sample.


Analyst


Review

CLIENT:

BP

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

LOCATION NO: B1246

C.O.C. NO: 14746

FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: NAME: NEIL LS WELL #: 20 PITS:
QUAD/UNIT: K SEC: 33 TWP: 32N RNG: 11W PM: NM CNTY: ST: NM
QTR/FOOTAGE: NELSW CONTRACTOR:

DATE STARTED: 2/27/07

DATE FINISHED:

ENVIRONMENTAL
SPECIALIST: NV

SOIL REMEDIATION:

35

REMEDATION SYSTEM: LANDFARM

APPROX. CUBIC YARDAGE:

LAND USE: RANGE

LIFT DEPTH (ft): N/A

FIELD NOTES & REMARKS:

DEPTH TO GROUNDWATER: >100' NEAREST SURFACE WATER: >1,000'

NEAREST WATER SOURCE: >1,000' NMOCD RANKING SCORE: 0 NMOCD TPH CLOSURE STD: 5,000 PPM

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

SOIL COLOR: mostly dk. yell. brown, some lt. to med. gray (samp pts. ③ + ④).

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

CLOSED

DISCOLORATION/STAINING OBSERVED: YES / NO EXPLANATION -

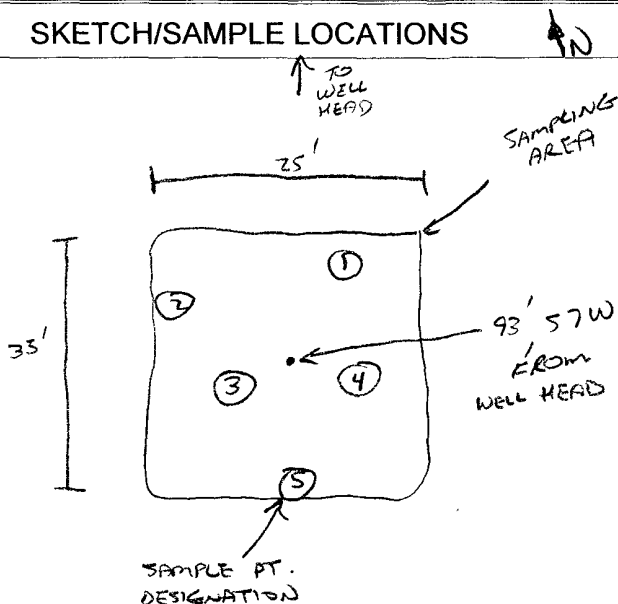
HC ODOR DETECTED: YES / NO EXPLANATION -

SAMPLING DEPTHS (LANDFARMS): 4-12 (INCHES)

SAMPLE TYPE: GRAB / COMPOSITE # OF PTS. 5

ADDITIONAL COMMENTS: NO ACTUAL LANDFARM OBSERVED ON-SITE.

SKETCH/SAMPLE LOCATIONS



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

OVM RESULTS

LAB SAMPLES

SAMPLE ID	FIELD HEADSPACE (ppm)	SAMPLE ID	ANALYSIS	TIME	RESULTS (ppm)
LF-1	0.0	LF-1	TPH (8015B)	1245	ND
		"	CHLORIDE	"	146

P.C. - 7/2/03

SCALE

0 FT

TRAVEL NOTES: CALLOUT: N/A

ONSITE: 7/22/05, 2/27/07

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

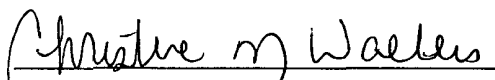
Client:	Blagg / BP	Project #	94034-010
Sample ID:	LF - 1	Date Reported:	03-02-07
Laboratory Number:	40219	Date Sampled:	02-27-07
Chain of Custody No:	14746	Date Received:	02-28-07
Sample Matrix:	Soil	Date Extracted:	02-28-07
Preservative:	Cool	Date Analyzed:	03-01-07
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	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: **Neil LS #20 Landfarm 5 Pt Composite Sample.**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

Chloride

Client:	Blagg / BP	Project #:	94034-010
Sample ID:	LF - 1	Date Reported:	03-01-07
Lab ID#:	40219	Date Sampled:	02-27-07
Sample Matrix:	Soil	Date Received:	02-28-07
Preservative:	Cool	Date Analyzed:	03-01-07
Condition:	Cool and Intact	Chain of Custody:	14746

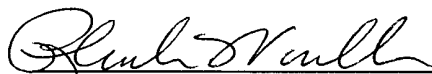
Parameter	Concentration (mg/Kg)
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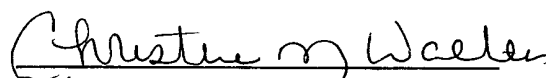
Total Chloride

146

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

Comments: Neil LS #20 Landfarm 5 Pt Composite Sample.


Analyst


Review

District I

P.O. Box 1988, Hobbs, NM

District II

Printer DD, Artesia, NM

District III

1000 Rio Bravo Rd., Alameda, NM

State of New Mexico
Energy, Minerals and Natural Resources Department

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

B1246

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: Neil LS #20

Location: Unit or Qtr/Qtr Sec K Sec 33 T 32N R 11W County San Juan

Pit Type: Separator Dehydrator Other Blow

Land Type: BLM X, State , Fee , Other

Pit Location: Pit dimensions: length NA, width NA, depth NA
 (Attach diagram) Reference: wellhead X, other

Footage from reference: 87'

Direction from reference: 7 Degrees East North
 West of 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

Date Remediation Started: _____

Date Completed: 7-3-03

Remediation Method:

(Check all appropriate sections)

Excavation ☒ KAG

Approx. cubic yards NA 15

Landfarmed ☐

Insitu Bioremediation _____

Other CLOSE AS IS KAG

Remediation Location:

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

Onsite ☒ Offsite _____

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

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 5' (Test hole bottom)

Sample date 7-2-03 Sample time 1400

Sample Results

Soil: Benzene	(ppm) <u>0.231</u>	Water: Benzene	(ppb) _____
Total BTEX	(ppm) <u>5.650</u>	Toluene	(ppb) _____
Field Headspace	(ppm) <u>696</u>	Ethylbenzene	(ppb) _____
TPH	(ppm) <u>1660</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 7-3-03 PRINTED NAME Jeffrey C. Blagg

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

District I

P. O. Box 1968, Hobbs, NM

District II

Drewer DD, Artesia, NM

District III

1000 Rio Bravo Rd., Altec, NM

State of New Mexico
Energy, Minerals and Natural Resources Department

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

B1246

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) 326-9200Address: 200 ENERGY COURT, FARMINGTON, NM 87401Facility or Well Name: Neil LS # 20Location: Unit or Qtr/Qtr Sec K Sec 33 T 32N R 11W County San JuanPit 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: 23'Direction from reference: 62 Degrees ☐ East ☐ North ☐
☐ 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

revised 09/11/02

bel1202.wpd

SEP B1246

Date Remediation Started: _____

Date Completed: 7-3-03

Remediation Method:

(Check all appropriate sections)

Excavation ☒ Kag

Approx. cubic yards NA Kag

Landfarmed ☒

In situ Bioremediation _____

Other CLOSE AS IS. Kag

Remediation Location:

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

Onsite ☒ Offsite _____

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

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 6' (Test hole bottom)

Sample date 7-2-03 Sample time 1410

Sample Results

Soil: Benzene	(ppm) <u>0.0485</u>	Water: Benzene	(ppb) _____
Total BTEX	(ppm) <u>5.000</u>	Toluene	(ppb) _____
Field Headspace	(ppm) <u>265</u>	Ethylbenzene	(ppb) _____
TPH	(ppm) <u>369</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 7-3-03 PRINTED NAME Jeffrey C. Blagg

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

CHAIN OF CUSTODY RECORD

09839

Client / Project Name BLAGG / BP			Project Location NEIL LS #20		ANALYSIS / PARAMETERS								
Sampler: NJV			Client No. 94034-010		No. of Containers TPH BTEX (80158) (80218)							Remarks	
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix								PRESERVED COOL GRAB SAMPLES	
① @ 5'	7/2/03	1408	26035	SOIL	1	✓	✓					BLOW PIT	
① @ 6'	7/2/03	1410	26036	SOIL	1	✓	✓					SEPARATOR PIT	
Relinquished by: (Signature) <i>[Signature]</i>			Date 7/3/03	Time 0710	Received by: (Signature) <i>[Signature]</i>						Date 7/3/03	Time 0710	
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:	07-03-TPH QA/QC	Date Reported:	07-03-03
Laboratory Number:	26029	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-03-03
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF	C-Cal RF	% Difference	Accept. Range
Gasoline Range C5 - C10	04-29-03	2.6312E-002	2.6286E-002	0.10%	0 - 15%
Diesel Range C10 - C28	04-29-03	2.5849E-002	2.5823E-002	0.10%	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	274	272	0.4%	0 - 30%
Diesel Range C10 - C28	120	120	0.3%	0 - 30%

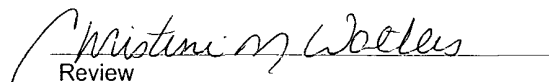
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	274	250	522	99.8%	75 - 125%
Diesel Range C10 - C28	120	250	369	99.8%	75 - 125%

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 26029 - 26037.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	07-03-BTEX QA/QC	Date Reported:	07-03-03
Laboratory Number:	26029	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-03-03
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	3.7241E-002	3.7353E-002	0.3%	ND	0.2
Toluene	4.4375E-002	4.4464E-002	0.2%	ND	0.2
Ethylbenzene	7.5434E-002	7.5661E-002	0.3%	ND	0.2
p,m-Xylene	6.7602E-002	6.7806E-002	0.3%	ND	0.2
o-Xylene	5.7973E-002	5.8089E-002	0.2%	ND	0.1


Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	182	185	1.8%	0 - 30%	1.8
Toluene	1,510	1,480	2.0%	0 - 30%	1.7
Ethylbenzene	1,110	1,080	2.7%	0 - 30%	1.5
p,m-Xylene	2,030	2,070	2.0%	0 - 30%	2.2
o-Xylene	2,290	2,330	1.7%	0 - 30%	1.0

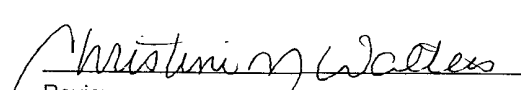
Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	182	50.0	232	99.8%	39 - 150
Toluene	1,510	50.0	1,550	99.4%	46 - 148
Ethylbenzene	1,110	50.0	1,150	99.1%	32 - 160
p,m-Xylene	2,030	100	2,120	99.5%	46 - 148
o-Xylene	2,290	50.0	2,330	99.6%	46 - 148

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 26029 - 26036.


Analyst


Review

CHAIN OF CUSTODY RECORD

14746

Client / Project Name BLAGE / BP			Project Location NEIL LS #20		ANALYSIS / PARAMETERS								
Sampler: NV			Client No. 94634-010		No. of Containers TPH (8015B)	CHLORIDE					Remarks PRESERVED COOL 5 PT. COMPOSITE SAMPLE		
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix									
LF-1	2/27/07	1245	40219	SOIL									
					1	✓	✓				LANDFARM		
Relinquished by: (Signature) Nelson Vaf			Date 2/28/07	Time 0846	Received by: (Signature) Christine M. Waceton			Date 2/28/07	Time 846				
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:	03-01-07 QA/QC	Date Reported:	03-02-07
Laboratory Number:	40216	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	03-01-07
Condition:	N/A	Analysis Requested:	TPH

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

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

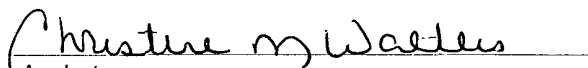
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept Range
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	3.7	3.7	0.0%	0 - 30%

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

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: QA/QC for Samples 40216 - 40221.


Analyst


Review