

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: Burlington Resources Telephone: (505) 326-9841 e-mail address: LHasely@br-inc.com
Address: 3401 East 30th Street, Farmington, New Mexico, 87402
Facility or well name: Hagood No. 4 API #: 3004507739 U/L or Qtr/Qtr D Sec 34 T 29N R 13W
County: San Juan Latitude 36.687779 Longitude -108.19938 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: <u>40</u> bbl Type of fluid: <u>Produced Water and Incidental Oil</u> Construction material: <u>Fiberglass</u> Double-walled, with leak detection? Yes ☐ If not, explain why not. <u>No. Tank in place prior to Rule 50.</u>
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) 0
Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)	Yes (20 points) No (0 points) 0
Distance to surface water: (horizontal distance to 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) 10
Ranking Score (Total Points) 10	

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 Envirotech Landfarm #2. (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:
Sandstone encountered at 11' BGS.

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: 1/15/07
Printed Name/Title Mr. Ed Hasely, Environmental Advisor Signature Ed Hasely
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: UNIT OIL & GAS INSPECTOR, DIST. III Signature [Signature] Date: FEB 06 2007
Printed Name/Title _____

CLIENT: _____	ENVIROTECH INC. ENVIRONMENTAL SCIENTISTS & ENGINEERS 5796 U.S. HIGHWAY 64-3014 FARMINGTON, NEW MEXICO 87401 PHONE: (505) 632-0615	LOCATION NO: _____ COC NO: _____
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FIELD REPORT: CLOSURE VERIFICATION	PAGE No: <u>1</u> of <u>2</u>
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LOCATION: NAME: <u>144560 #4</u> WELL #: _____ PIT: <u>SLP</u> QUAD/UNIT: <u>D SEC 34 TWP 29N RNG 13W PMNMPM CNTY: SS ST: NM</u> QTR/FOOTAGE: <u>935FWL 965FWL</u> CONTRACTOR: <u>LJR</u>	DATE STARTED: <u>12/13/06</u> DATE FINISHED: <u>12-14-06</u> ENVIRONMENTAL SPECIALIST: <u>GWC</u>
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EXCAVATION APPROX. <u>38</u> FT. x <u>32</u> FT. x <u>11</u> FT. DEEP. CUBIC YARDAGE: <u>140</u>	DISPOSAL FACILITY: <u>Envirotech LF #2</u> REMEDIATION METHOD: <u>EXCAVATION</u>
LAND USE: _____ APE LEASE: <u>30-045-07739</u> FORMATION: _____	

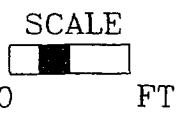
FIELD NOTES & REMARKS:	PIT LOCATED APPROXIMATELY <u>90</u> FT. <u>65"</u> FROM WELLHEAD.
DEPTH TO GROUNDWATER: <u>2102</u>	NEAREST WATER SOURCE: <u>>1,000</u> NEAREST SURFACE WATER: <u>200-1000</u>
NMOCB RANKING SCORE: <u>10</u>	NMOCB TPH CLOSURE STD: <u>1,000</u> PPM
SOIL AND EXCAVATION DESCRIPTION:	

CHECK ONE :
☐ PIT ABANDONED ☒ STEEL TANK INSTALLED

Granite encountered @ 11' BGS, maximum reasonable extent

FIELD 418.1 CALCULATIONS Std 200 .12 lbs.

TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
0830	bottom 7' BGS		5.0	20	40	.32	2,2900
0930	bottom 11' BGS		5.0	20	40	.15	10,300



PIT PERIMETER

OVM RESULTS

PIT PROFILE

	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>SAMPLE ID</th> <th>FIELD HEADSPACE PID (ppm)</th> </tr> </thead> <tbody> <tr><td>1 bottom 7</td><td>926</td></tr> <tr><td>2 bottom 11</td><td>1011</td></tr> <tr><td>3 SW 1</td><td>5</td></tr> <tr><td>4 SW 2</td><td>1</td></tr> <tr><td>5 SW 3</td><td>29</td></tr> <tr><td>SW 4</td><td>52</td></tr> </tbody> </table>	SAMPLE ID	FIELD HEADSPACE PID (ppm)	1 bottom 7	926	2 bottom 11	1011	3 SW 1	5	4 SW 2	1	5 SW 3	29	SW 4	52		
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2 bottom 11	1011																
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5 SW 3	29																
SW 4	52																
LAB SAMPLES																	
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TRAVEL NOTES:	CALLOUT: _____	ONSITE: _____
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Method 418.1 Analysis Log Total Petroleum Hydrocarbons

Date 12-14-06

Analyst ENH

Location HAGOOD #4

Instrument FOXBORO

Job No. 9215-046-642

Sample No.	Sample Description	Sample Wt. (g)	Volume Freon (mL)	Dilution Factor	Abs. Reading	TPH (mg/kg)	OVM (mg/kg)
3	SW 1	5	20	1	.12	822.1	5
4	SW 2	5	20	1	.14	959.1	1
5	SW 3	5	20	1	.035	239.8	29
6	SW 4	5	20	1	.037	253.5	52

Infrared Spectrophotometer Calibration

New Freon _____

Date Standards Prepared _____

Standard Concentration (mg/L)	Absorbance
100	_____
200	<u>208</u>
500	_____
1000	_____

I-CAL RF: _____

C-CAL RF: _____

RSD: _____ %

% Difference: _____ %

QA/QC Acceptance Criteria: I-CAL RSD +/- 20%

C-Cal Difference +/- 10%

EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

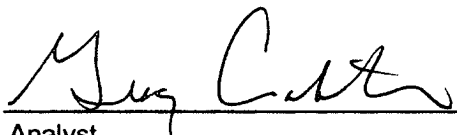
Client:	Burlington Resources	Project #:	92115-046-042
Sample No.:	1	Date Reported:	12/13/2006
Sample ID:	Discrete, 7' Below BGS	Date Sampled:	12/13/2006
Sample Matrix:	Soil	Date Analyzed:	12/13/2006
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	21,900	50.0

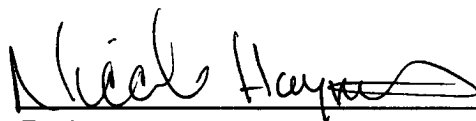
ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: Hagood # 4



Analyst



Review

**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

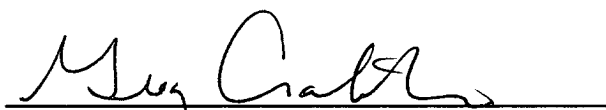
Client:	Burlington Resources	Project #:	92115-046-042
Sample No.:	2	Date Reported:	12/13/2006
Sample ID:	Discrete, 11' Below BGS	Date Sampled:	12/13/2006
Sample Matrix:	Soil	Date Analyzed:	12/13/2006
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

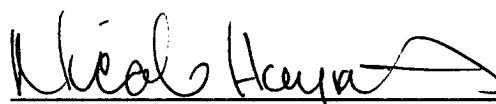
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	10,300	50.0

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: Hagood # 4


Analyst


Review

**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

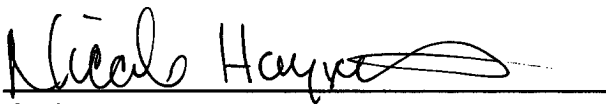
Client:	Burlington Resources	Project #:	92115-046-042
Sample No.:	0	Date Reported:	12/14/2006
Sample ID:	Composite, Side Wall # 1	Date Sampled:	12/14/2006
Sample Matrix:	Soil	Date Analyzed:	12/14/2006
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	822.1	5.0

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: Hagood # 4


Analyst


Review

**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

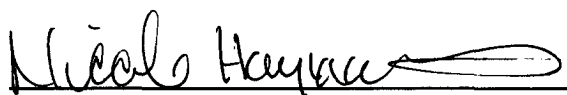
Client:	Burlington Resources	Project #:	92115-046-042
Sample No.:	4	Date Reported:	12/14/2006
Sample ID:	Composite, Side Wall # 2	Date Sampled:	12/14/2006
Sample Matrix:	Soil	Date Analyzed:	12/14/2006
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

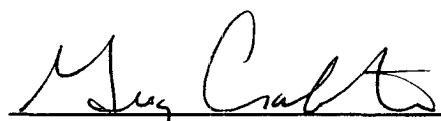
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	959.1	5.0

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: Hagood # 4


Analyst


Review

EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Client:	Burlington Resources	Project #:	92115-046-042
Sample No.:	5	Date Reported:	12/14/2006
Sample ID:	Composite, Side Wall # 3	Date Sampled:	12/14/2006
Sample Matrix:	Soil	Date Analyzed:	12/14/2006
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

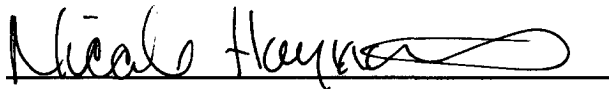
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
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Total Petroleum Hydrocarbons	239.8	5.0
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ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: Hagood # 4


Analyst


Review

**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

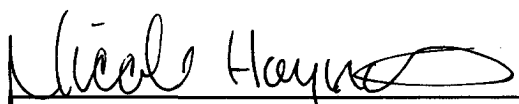
Client:	Burlington Resources	Project #:	92115-046-042
Sample No.:	6	Date Reported:	12/14/2006
Sample ID:	Composite, Side Wall # 4	Date Sampled:	12/14/2006
Sample Matrix:	Soil	Date Analyzed:	12/14/2006
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	253.5	5.0

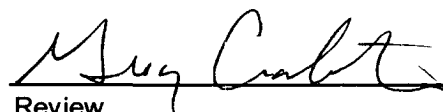
ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: Hagood # 4



Analyst



Review

EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS
QUALITY ASSURANCE REPORT

Client:	Burlington Resources	Project #:	92115-046-042
Sample ID:	QA/QC	Date Reported:	12/13/2006
Laboratory Number:	01-24-TPH.QA/QC	Date Sampled:	39064
Sample Matrix:	Freon-113	Date Analyzed:	12/13/2006
Preservative:	N/A	Date Extracted:	12/13/2006
Condition:	N/A	Analysis Needed:	TPH

Calibration	I-Cal Date	C-Cal Date	I-Cal RF	C-Cal RF	% Difference	Accept. Range
	05-22-04	12/13/2006	1,713	1,667	2.7%	+/- 10%

Blank Conc. (mg/Kg)	Concentration	Detection Limit
TPH	ND	5.0

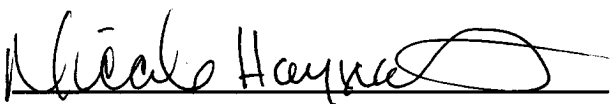
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
TPH	2,440	2,323	4.8%	+/- 30%

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
TPH	2,440	2,000	4,970	111.9%	80 - 120%

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: QA/QC for Hagood #4


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Burlington	Project #:	92115-046-042
Sample ID:	Bottom 12' BGS	Date Reported:	12-18-06
Laboratory Number:	39527	Date Sampled:	12-15-06
Chain of Custody:	1864	Date Received:	12-18-06
Sample Matrix:	Soil	Date Analyzed:	12-18-06
Preservative:	Cool	Date Extracted:	12-18-06
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	307	1.8
Toluene	477	1.7
Ethylbenzene	844	1.5
p,m-Xylene	3,930	2.2
o-Xylene	621	1.0
Total BTEX	6,180	

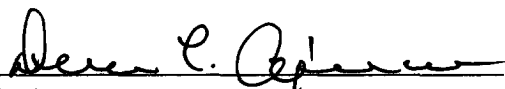
ND - Parameter not detected at the stated detection limit.

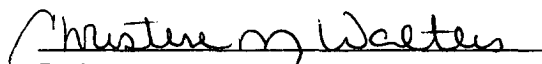
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	97.0 %
	1,4-difluorobenzene	97.0 %
	Bromochlorobenzene	97.0 %

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: Hagood #4


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	12-18-BTEX QA/QC	Date Reported:	12-18-06
Laboratory Number:	39520	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-18-06
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	2.9879E+007	2.9939E+007	0.2%	ND	0.2
Toluene	4.5571E+007	4.5662E+007	0.2%	ND	0.2
Ethylbenzene	2.0314E+007	2.0355E+007	0.2%	ND	0.2
p,m-Xylene	8.5891E+007	8.6064E+007	0.2%	ND	0.2
o-Xylene	3.6030E+007	3.6102E+007	0.2%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	ND	ND	0.0%	0 - 30%	1.8
Toluene	2.4	2.4	0.0%	0 - 30%	1.7
Ethylbenzene	15.4	15.3	0.6%	0 - 30%	1.5
p,m-Xylene	52.3	52.2	0.2%	0 - 30%	2.2
o-Xylene	18.8	18.7	0.5%	0 - 30%	1.0

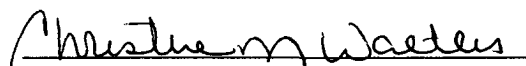
Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	50.0	49.9	99.8%	39 - 150
Toluene	2.4	50.0	52.3	99.8%	46 - 148
Ethylbenzene	15.4	50.0	65.3	99.8%	32 - 160
p,m-Xylene	52.3	100	152	99.9%	46 - 148
o-Xylene	18.8	50.0	68.7	99.9%	46 - 148

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 Samples 39520 - 39524, 39526 - 39527


Analyst


Review

1864

san juan reproduction 578-129

Bill of Lading

MANIFEST #

DATE 12/18/04 JOB # 92115-046-042

"I certify the material hauled from the above location has not been added to or mixed with, and is the same material received from the above mentioned Generator, and that no additional materials have been added."

COMPANY CONTACT *Allen* PHONE *325 1922* DATE *12 18 06*

COMPANY CONTACT Allen
san juan reproduction 578-126