

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 ☒

RCVD DEC28'06

OIL CONSERV. DIV.
DIST. 5

Operator: <u>Burlington Resources</u> Telephone: <u>(505) 326-9841</u> e-mail address: <u>LHasely@br-inc.com</u>	
Address: <u>3401 East 30th Street, Farmington, New Mexico, 87402</u>	
Facility or well name: <u>San Juan 28-6 Unit 137</u>	API #: <u>30039200520000</u> U/L or Qtr/Qtr <u>N</u> Sec <u>14</u> T <u>28N</u> R <u>6W</u>
County: <u>Rio Arriba</u>	Latitude <u>36.65619</u> Longitude <u>-107.44051</u> NAD: 1927 ☒ 1983 ☐
Surface Owner: Federal ☒ State ☐ Private ☐ Indian ☐	
Pit Type: Drilling ☐ Production ☒ Disposal ☐ Workover ☐ Emergency ☐ Lined ☐ Unlined ☐ Liner type: Synthetic ☐ Thickness _____ mil Clay ☐ Pit Volume _____ bbl	Below-grade tank 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) 10
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) 20
Ranking Score (Total Points) 30	

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:
Maximum reasonable extent of excavation occurred at 18' TD, side walls prone to sloughing.
BTEX Lab analysis attached.
<u>Landfarm analysis attached.</u>

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: 12/22/06

Printed Name/Title Mr. Ed Hasely, Environmental Advisor

Signature [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.

APPROVAL BY NMOCD INSPECTOR, DIST. 5

Approval:

Printed Name/Title _____

Signature [Signature]

Date: DEC 28 2006

**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client: Burlington Resources
Sample No.: 1
Sample ID: Discrete, 12' TD
Sample Matrix: Soil
Preservative: Cool
Condition: Cool and Intact

Project #: 92115-097
Date Reported: 8/30/2006
Date Sampled: 8/24/2006
Date Analyzed: 8/24/2006
Analysis Needed: TPH-418.1

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	1,730	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: San Juan 28-6 Unit 137

Analyst

Review

EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Client:	Burlington Resources	Project #:	92115-097
Sample No.:	2	Date Reported:	8/30/2006
Sample ID:	Walls, 4 Pt Composite	Date Sampled:	8/29/2006
Sample Matrix:	Soil	Date Analyzed:	8/29/2006
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

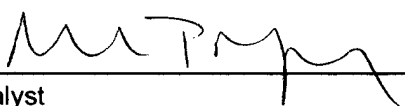
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
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Total Petroleum Hydrocarbons	45.8	5.0
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ND = Parameter not detected at the stated detection limit.

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

Comments: **San Juan 28-6 Unit 137**



Analyst



Review

EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Client: Burlington Resources
Sample No.: 3
Sample ID: Discrete, 18' TD
Sample Matrix: Soil
Preservative: Cool
Condition: Cool and Intact

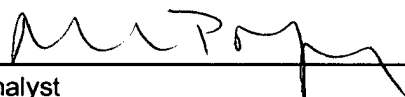
Project #: 92115-097
Date Reported: 8/30/2006
Date Sampled: 8/29/2006
Date Analyzed: 8/29/2006
Analysis Needed: TPH-418.1

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	1,110	5.0

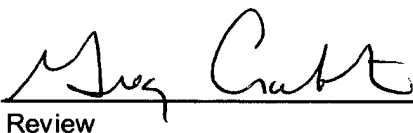
ND = Parameter not detected at the stated detection limit.

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

Comments: San Juan 28-6 Unit 137



Analyst



Review

EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS
QUALITY ASSURANCE REPORT

Client:	Burlington Resources	Project #:	92115-097
Sample ID:	QA/QC	Date Reported:	8/30/2006
Laboratory Number:	01-24-TPH.QA/QC	Date Sampled:	N/A
Sample Matrix:	Freon-113	Date Analyzed:	1/24/2005
Preservative:	N/A	Date Extracted:	1/24/2005
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	1/24/2005	1,735	1,695	2.3%	+/- 10%

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

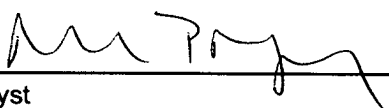
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
TPH	2,471	2,352	4.8%	+/- 30%

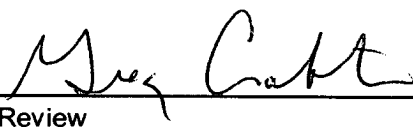
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept Range
TPH	2,471	2,000	5,030	112.5%	80 - 120%

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 San Juan 28-6 Unit 137


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Burlington	Project #:	92115-097
Sample ID:	18' TD	Date Reported:	08-30-06
Laboratory Number:	38318	Date Sampled:	08-29-06
Chain of Custody:	1399	Date Received:	08-29-06
Sample Matrix:	Soil	Date Analyzed:	08-30-06
Preservative:	Cool	Date Extracted:	08-30-06
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	1.8
Toluene	147	1.7
Ethylbenzene	262	1.5
p,m-Xylene	4,490	2.2
o-Xylene	1,210	1.0
Total BTEX	6,110	

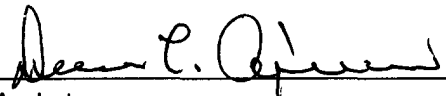
ND - Parameter not detected at the stated detection limit.

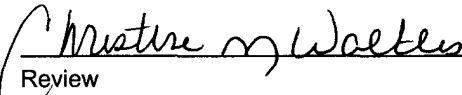
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	97.0 %
	1,4-difluorobenzene	97.0 %
	Bromochlorobenzene	97.0 %

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: San Juan 28-6 Unit 137


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	08-30-BTEX QA/QC	Date Reported:	08-30-06
Laboratory Number:	38311	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	08-30-06
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	5.2776E+007	5.2882E+007	0.2%	ND	0.2
Toluene	6.0691E+007	6.0813E+007	0.2%	ND	0.2
Ethylbenzene	2.5470E+007	2.5521E+007	0.2%	ND	0.2
p,m-Xylene	1.1345E+008	1.1368E+008	0.2%	ND	0.2
o-Xylene	5.4647E+007	5.4756E+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	ND	ND	0.0%	0 - 30%	1.7
Ethylbenzene	11.8	11.7	0.8%	0 - 30%	1.5
p,m-Xylene	9.7	9.6	1.0%	0 - 30%	2.2
o-Xylene	ND	ND	0.0%	0 - 30%	1.0

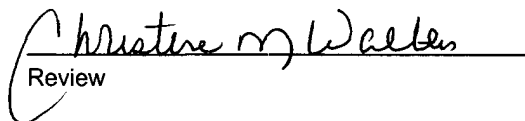
Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	50.0	50.0	100.0%	39 - 150
Toluene	ND	50.0	49.9	99.8%	46 - 148
Ethylbenzene	11.8	50.0	61.8	100.0%	32 - 160
p,m-Xylene	9.7	100	109	99.7%	46 - 148
o-Xylene	ND	50.0	49.9	99.8%	46 - 148

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 38311 - 38318


Analyst


Review

1399

can italian reproduction 578-129

ENVIROTECH Inc.

5796 US HWY. 64, FARMINGTON, NM 87401
(505) 632-0615

PIT No: _____
C.O.C #: _____

FIELD REPORT: REMEDIATION FACILITY CLOSURE VERIFICATION

JOB No: 92115-111-003
PAGE No: 1 of 1

FACILITY LOCATION: San Juan 28-6 No. 137

SOURCE LOCATION: Same

SOURCE LOCATION: _____

SOURCE LOCATION: _____

FACILITY CLASSIFICATION: _____ PIT TYPE: _____

DATE STARTED: 11/27/06
DATE FINISHED: 11/27/06

ENVIRONMENTAL
SPECIALIST: GWC

SOIL REMEDIATION: QUANTITY: Approx 200 yd³ # OF COMP. SAMPLES: 1
DIMENSIONS: 90 x 44

VISIBLE OBSERVATIONS: no visible signs of contamination

SAMPLING PLAN: One (1) 5 pt Composite

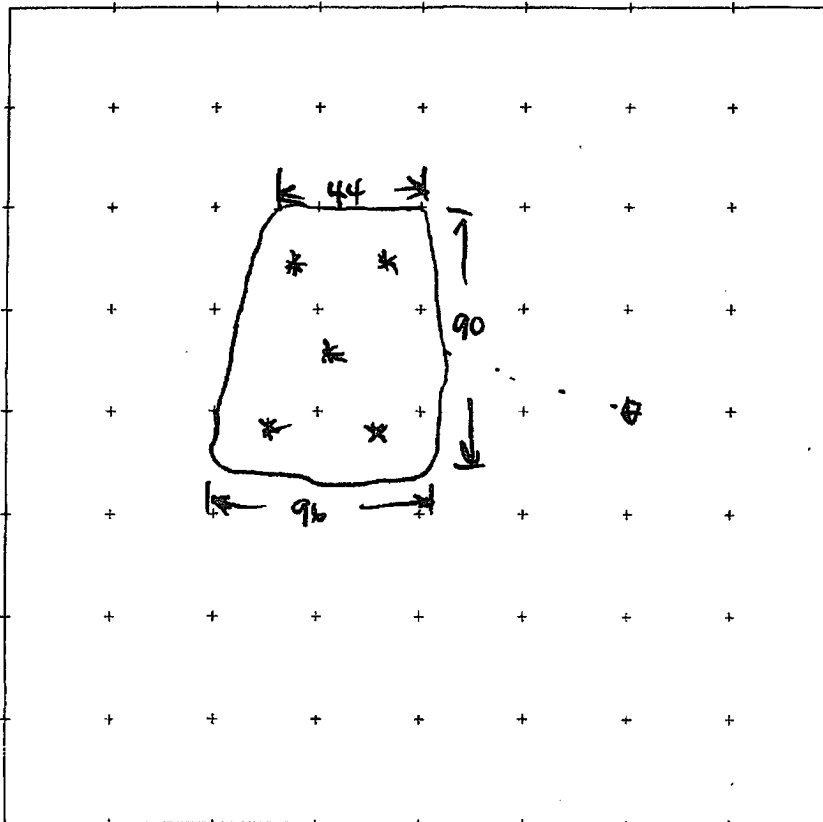
FIELD NOTES & REMARKS: FACILITY CENTER LOCATED APPROX 75 ^{feet} ~~yards~~ 280° FROM WELLHEAD.

DEPTH TO GROUNDWATER: 50-100
NEAREST WATER SOURCE/TYPE: >1,000
NEAREST SURFACE WATER: 2200
MAX TPH PER NMDCD: 100

No. OF 5-POINT
COMPOSITE SAMPLES:
YARDAGE--#
0-200=1
201-400=2
401-1000=3
>1000=5

FACILITY DIAGRAM

GRID SCALE: _____

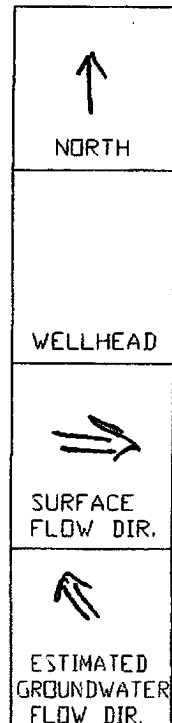


OVM RESULTS

SAMPLE ID:	FIELD HEADSPACE FID (ppm)
Comp	2

LAB RESULTS

SAMPLE ID:	ANALYSIS REQUESTED	RESULTS PPM:
Comp	418.1	72



ENVIROTECH INC.

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client: Burlington Resources
Sample No.: 1
Sample ID: Landfarm Composite
Sample Matrix: Soil
Preservative: Cool
Condition: Cool and Intact

Project #: 92115-111-003
Date Reported: 12/4/2006
Date Sampled: 11/27/2006
Date Analyzed: 11/27/2006
Analysis Needed: TPH-418.1

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

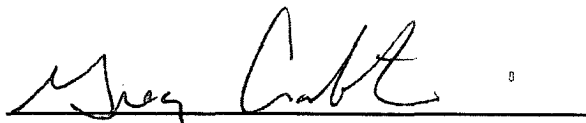
72.2

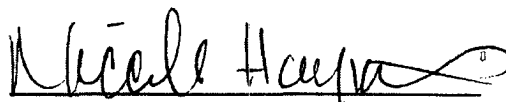
5.0

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: **San Juan 28-6 No. 137**


Analyst


Review