

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

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

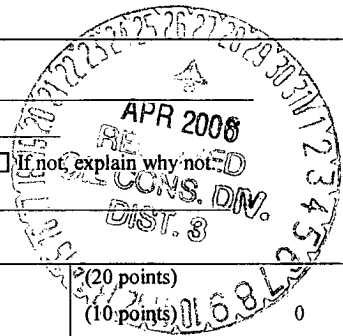
Form C-144  
June 1, 2004

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>Dugan Production Corp</u> Telephone: <u>(505)325-1821</u> e-mail address: _____			
Address: <u>P.O. Box 420, Farmington, New Mexico 87401</u>			
Facility or well name: <u>Fahrenheit #1</u> API #: <u>30-039-23321</u> U/L or Qtr/Qtr <u>M</u> Sec <u>11</u> T <u>23N</u> R <u>6W</u>			
County: <u>Rio Arriba</u> Latitude <u>36.23417</u> Longitude <u>107.44510</u> NAD: 1927 <input type="checkbox"/> 1983 <input type="checkbox"/> Surface Owner Federal <input checked="" type="checkbox"/> State <input type="checkbox"/> Private <input type="checkbox"/> Indian <input type="checkbox"/>			
<b>Pit</b> 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 <u>51 ±</u> bbl	<b>Below-grade tank</b> 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 (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)		0
<b>Ranking Score (Total Points)</b>			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:
12' x 12' x 2'± deep unlined production pit, center located 27 feet North 45° East of wellhead. Pit excavated/sampled on 4/12/06.
Final excavation 12' x 12' x 5', into bedrock sandstone. Soils proposed to be landfarmed on location.
Collect 4-point composite soil sample from sidewalls and pit center sample for laboratory testing.
See attached field sampling report and laboratory test reports. BLM on site to witness sampling.

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: 4/26/06

Printed Name/Title Jeff Blagg, Agent

Signature Jeff Blagg


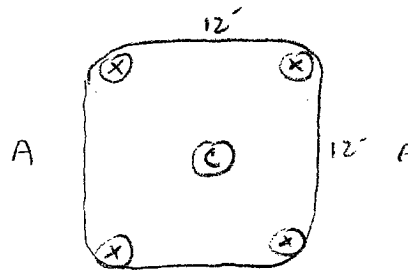
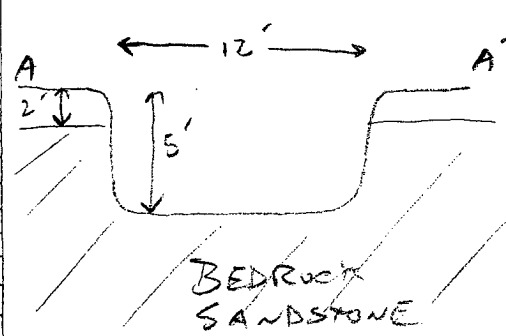
Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.

Approval:

Printed Name/Title DEPUTY OIL & GAS INSPECTOR, DIST. 3

Signature Brandon Panell

Date: APR 27 2006

CLIENT: <u>DUGAN</u>	<b>BLAGG ENGINEERING, INC.</b> <b>P.O. BOX 87, BLOOMFIELD, NM 87413</b> <b>(505) 632-1199</b>	LOCATION NO: _____ COCR NO: <u>14644</u>																																								
<b>FIELD REPORT: PIT CLOSURE VERIFICATION</b>		PAGE No: <u>1</u> of <u>1</u>																																								
LOCATION: NAME: <u>FAHRENHEIT</u> WELL #: <u>1</u> TYPE: <u>SEP</u> QUAD/UNIT: <u>M</u> SEC: <u>11</u> TWP: <u>23N</u> RNG: <u>6W</u> PM: <u>NM</u> CNTY: <u>RA</u> ST: <u>NM</u> QTR/FOOTAGE: <u>(66) FSLX 720 FWL</u> CONTRACTOR: <u>SIERRA (HAROLD)</u>		DATE STARTED: <u>4-12-06</u> DATE FINISHED: <u>4/12/06</u> ENVIRONMENTAL SPECIALIST: <u>JCS</u>																																								
EXCAVATION APPROX. <u>12</u> FT. x <u>12</u> FT. x <u>5</u> FT. DEEP. CUBIC YARDAGE: <u>16±</u>																																										
DISPOSAL FACILITY: <u>ON-SITE</u> REMEDIATION METHOD: <u>LF</u>																																										
LAND USE: <u>RANGE - BLM</u> LEASE: <u>NM 24458</u> FORMATION: <u>GAL/DK</u>																																										
FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY <u>27</u> FT. <u>N 42 E</u> FROM WELLHEAD.																																										
DEPTH TO GROUNDWATER: <u>&gt;100</u> NEAREST WATER SOURCE: <u>&gt;1000</u> NEAREST SURFACE WATER: <u>&gt;1000</u>																																										
NMOC D RANKING SCORE: <u>0</u> NMOC D TPH CLOSURE STD: <u>5000</u> PPM																																										
SOIL AND EXCAVATION DESCRIPTION:		OVM CALIB. READ. = <u>53.3</u> ppm OVM CALIB. GAS = <u>100</u> ppm RF = 0.52 TIME: <u>0630</u> am/pm DATE: <u>4/12</u>																																								
SOIL TYPE: SAND / <u>SILTY SAND</u> / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER <u>BEDROCK SS @ 2'</u>																																										
SOIL COLOR: <u>Light TAN</u>																																										
COHESION (ALL OTHERS): <u>NON COHESIVE</u> / SLIGHTLY COHESIVE / COHESIVE / HIGHLY COHESIVE																																										
CONSISTENCY (NON COHESIVE SOILS): <u>LOOSE</u> 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: <u>DRY / SLIGHTLY MOIST</u> / MOIST / WET / SATURATED / SUPER SATURATED																																										
DISCOLORATION/STAINING OBSERVED: <u>YES</u> / NO EXPLANATION - <u>GRAY/BLACK 2'-4'; Gray 4'-5'</u>																																										
HC ODOR DETECTED: <u>YES</u> / NO EXPLANATION - <u>MOD.</u>																																										
SAMPLE TYPE: GRAB / COMPOSITE - # OF PTS. _____																																										
ADDITIONAL COMMENTS: <u>12'x12'x2' Deep Unlined Pit. USE BACKHOE</u> <u>to dig into sandstone.</u> <u>SAMPLE WITNESSED BY BLM</u>																																										
FIELD 418.1 CALCULATIONS																																										
<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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SCALE  0 FT ↑ <b>PIT PERIMETER</b> 	<b>OVM READING</b> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>SAMPLE ID</th> <th>FIELD HEADSPACE (ppm)</th> </tr> </thead> <tbody> <tr><td>1 @</td><td> </td></tr> <tr><td>2 @</td><td> </td></tr> <tr><td>3 @</td><td> </td></tr> <tr><td>4 @</td><td> </td></tr> <tr><td>5 @</td><td> </td></tr> <tr><td>6 @ 5'</td><td>39</td></tr> <tr><td>4-Point @ 5'</td><td>90</td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </tbody> </table> <b>LAB SAMPLES</b> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>SAMPLE ID</th> <th>ANALYSIS</th> <th>TIME</th> </tr> </thead> <tbody> <tr><td>6 @ 5'</td><td>TDH/B/CL</td><td>1202</td></tr> <tr><td>4-Point</td><td>"</td><td>1205</td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	SAMPLE ID	FIELD HEADSPACE (ppm)	1 @		2 @		3 @		4 @		5 @		6 @ 5'	39	4-Point @ 5'	90							SAMPLE ID	ANALYSIS	TIME	6 @ 5'	TDH/B/CL	1202	4-Point	"	1205										<b>PIT PROFILE</b> 
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P.D. = PIT DEPRESSION; B.G. = BELOW GRADE; B = BELOW T.H. = TEST HOLE; ~ = APPROX.; T.B. = TANK BOTTOM																																										
TRAVEL NOTES: CALLOUT: _____ ONSITE: <u>4/12/06</u>																																										

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## Chloride

Client:	Blagg / Dugan	Project #:	94034-010
Sample ID:	Fahrenheit 1 - Sep	Date Reported:	04-15-06
Lab ID#:	36773	Date Sampled:	04-12-06
Sample Matrix:	Soil	Date Received:	04-13-06
Preservative:	Cool	Date Analyzed:	04-13-06
Condition:	Cool and Intact	Chain of Custody:	14644

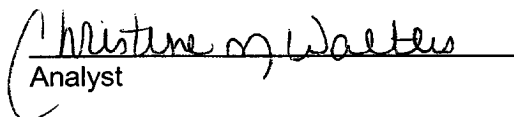
Parameter	Concentration (mg/Kg)
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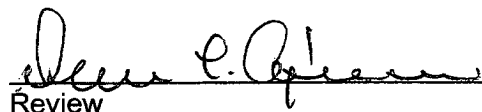
Total Chloride

1,520

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

Comments: Earthen Pit Closures C @ 5'

  
Analyst

  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## Chloride

Client:	Blagg / Dugan	Project #:	94034-010
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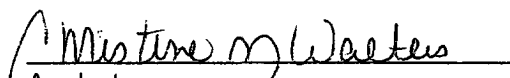
Parameter	Concentration (mg/Kg)
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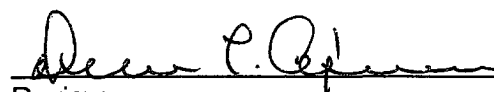
Total Chloride

1,930

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

Comments: Earthen Pit Closures 4-Point @ 5'

  
Analyst

  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / Dugan	Project #:	94034-010
Sample ID:	Fahrenheit 1 - Sep	Date Reported:	04-15-06
Laboratory Number:	36773	Date Sampled:	04-12-06
Chain of Custody:	14644	Date Received:	04-13-06
Sample Matrix:	Soil	Date Analyzed:	04-15-06
Preservative:	Cool	Date Extracted:	04-13-06
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	8.2	1.8
Toluene	22.2	1.7
Ethylbenzene	21.3	1.5
p,m-Xylene	135	2.2
o-Xylene	32.9	1.0
Total BTEX	220	

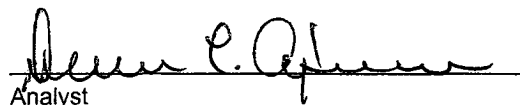
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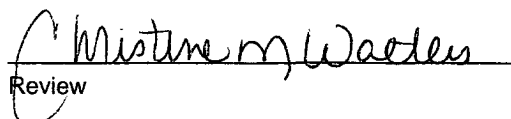
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	98.0 %
	1,4-difluorobenzene	98.0 %
	Bromochlorobenzene	98.0 %

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: Earthen Pit Closures C @ 5'

  
Analyst

  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / Dugan	Project #:	94034-010
Sample ID:	Fahrenheit 1 - Sep	Date Reported:	04-15-06
Laboratory Number:	36774	Date Sampled:	04-12-06
Chain of Custody:	14644	Date Received:	04-13-06
Sample Matrix:	Soil	Date Analyzed:	04-15-06
Preservative:	Cool	Date Extracted:	04-13-06
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	14.6	1.8
Toluene	120	1.7
Ethylbenzene	187	1.5
p,m-Xylene	799	2.2
o-Xylene	227	1.0
Total BTEX	1,350	

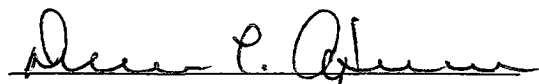
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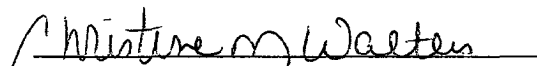
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	99.0 %
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	Bromochlorobenzene	99.0 %

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: Earthen Pit Closures 4-Point @ 5'

  
Analyst

  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

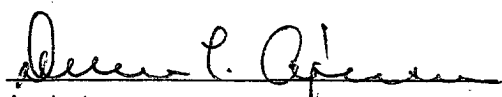
Client:	Blagg / Dugan	Project #:	94034-010
Sample ID:	Fahrenheit 1 - Sep	Date Reported:	04-15-06
Laboratory Number:	36773	Date Sampled:	04-12-06
Chain of Custody No:	14644	Date Received:	04-13-06
Sample Matrix:	Soil	Date Extracted:	04-13-06
Preservative:	Cool	Date Analyzed:	04-15-06
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

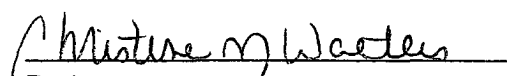
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	4.9	0.2
Diesel Range (C10 - C28)	298	0.1
Total Petroleum Hydrocarbons	303	0.2

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: **Earthen Pit Closures C @ 5'**

  
Analyst

  
Review

# ENVIROTECH LABS

PRactical SOLUTIONS FOR A BETTER TOMORROW

## EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

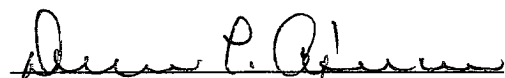
Client:	Blagg / Dugan	Project #:	94034-010
Sample ID:	Fahrenheit 1 - Sep	Date Reported:	04-15-06
Laboratory Number:	36774	Date Sampled:	04-12-06
Chain of Custody No:	14644	Date Received:	04-13-06
Sample Matrix:	Soil	Date Extracted:	04-13-06
Preservative:	Cool	Date Analyzed:	04-15-06
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

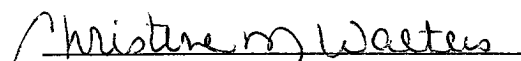
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	35.1	0.2
Diesel Range (C10 - C28)	429	0.1
Total Petroleum Hydrocarbons	464	0.2

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: **Earthen Pit Closures 4-Point @ 5'**

  
Analyst

  
Review