

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-14  
March 12, 200

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 Oil & Gas Company LP Telephone: 505-326-9700 e-mail address: jclark@br-inc.com  
Address: 3401 E. 30<sup>th</sup> Street, Farmington, NM 87402  
Facility or well name: Howell K 4C API #: 30-039-30939 U/L or Qtr/Qtr D Sec 17 T 30N R 08 W  
County: San Juan Latitude 36.8166667 Longitude -107.705 NAD: 1927 ☒ 1983 ☐ Surface Owner Federal ☒ State ☐ Private ☐ Indian ☐

| <b>Pit</b>   | <b>Below-grade tank</b>   |   |
|--|---|---|
| Type: Drilling <input type="checkbox"/> Production <input type="checkbox"/> Disposal <input type="checkbox"/><br>Workover <input checked="" type="checkbox"/> Emergency <input type="checkbox"/><br>Lined <input checked="" type="checkbox"/> Unlined <input type="checkbox"/><br>Liner type: Synthetic <input checked="" type="checkbox"/> Thickness <u>12 mil</u> Clay <input type="checkbox"/> Volume <u>      </u> bbl | Volume: <u>      </u> bbl Type of fluid: <u>      </u><br>Construction material: <u>      </u><br>Double-walled, with leak detection? Yes <input type="checkbox"/> If not, explain why not. <u>      </u> |   |
| Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)   | Less than 50 feet<br><u>50 feet or more, but less than 100 feet</u><br>100 feet or more   | (20 points)<br>(10 points) 10 points<br>( 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<br><u>No</u>  | (20 points)<br>( 0 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<br><u>200 feet or more, but less than 1000 feet</u><br>1000 feet or more   | (20 points)<br>(10 points) 10 points<br>( 0 points) |
| <b>Ranking Score (Total Points)</b> 20 points  |   |   |

**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:

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. (6) Closure completed date 6/1/04

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 6/03/04

Printed Name/Title Joni Clark, Regulatory Specialist

Signature Joni Clark

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:

Date:

JUN 15 2004

Printed Name/Title DEPUTY OIL & GAS INSPECTOR, DIST. 30

Signature Denny Zent

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

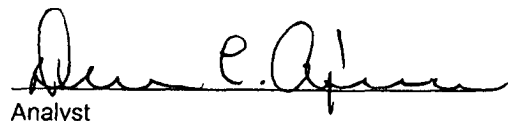
|                      |                      |                     |           |
|----------------------|----------------------|---------------------|-----------|
| Client:              | Burlington Resources | Project #:          | 92115-001 |
| Sample ID:           | Howell K 4 C         | Date Reported:      | 06-07-04  |
| Laboratory Number:   | 28910                | Date Sampled:       | 06-01-04  |
| Chain of Custody No: | 12242                | Date Received:      | 06-02-04  |
| Sample Matrix:       | Soil                 | Date Extracted:     | 06-04-04  |
| Preservative:        | Cool                 | Date Analyzed:      | 06-07-04  |
| Condition:           | Cool and Intact      | Analysis Requested: | 8015 TPH  |

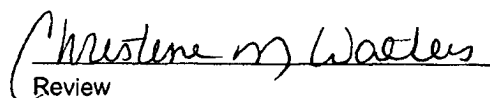
| Parameter                    | Concentration<br>(mg/Kg) | Det.<br>Limit<br>(mg/Kg) |
|------------------------------|--------------------------|--------------------------|
| Gasoline Range (C5 - C10)    | 1.5                      | 0.2                      |
| Diesel Range (C10 - C28)     | 226                      | 0.1                      |
| Total Petroleum Hydrocarbons | 228                      | 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: Pits.

  
Analyst

  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

|                    |                      |                     |           |
|--------------------|----------------------|---------------------|-----------|
| Client:            | Burlington Resources | Project #:          | 92115-001 |
| Sample ID:         | Howell K 4 C         | Date Reported:      | 06-07-04  |
| Laboratory Number: | 28910                | Date Sampled:       | 06-01-04  |
| Chain of Custody:  | 12242                | Date Received:      | 06-02-04  |
| Sample Matrix:     | Soil                 | Date Analyzed:      | 06-07-04  |
| Preservative:      | Cool                 | Date Extracted:     | 06-04-04  |
| Condition:         | Cool & Intact        | Analysis Requested: | BTEX      |

| Parameter    | Concentration<br>(ug/Kg) | Det.<br>Limit<br>(ug/Kg) |
|--------------|--------------------------|--------------------------|
| Benzene      | 4.7                      | 1.8                      |
| Toluene      | 77.2                     | 1.7                      |
| Ethylbenzene | 9.5                      | 1.5                      |
| p,m-Xylene   | 68.3                     | 2.2                      |
| o-Xylene     | 15.8                     | 1.0                      |
| Total BTEX   | 176                      |                          |

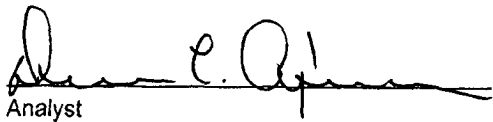
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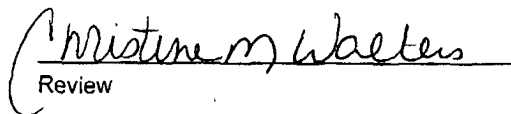
| Surrogate Recoveries: | Parameter           | Percent Recovery |
|-----------------------|---------------------|------------------|
|                       | Fluorobenzene       | 96 %             |
|                       | 1,4-difluorobenzene | 96 %             |
|                       | Bromochlorobenzene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

  
Analyst

  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## TRACE METAL ANALYSIS

|                    |                      |                  |             |
|--------------------|----------------------|------------------|-------------|
| Client:            | Burlington Resources | Project #:       | 92115-001   |
| Sample ID:         | Howell K 4 C         | Date Reported:   | 06-06-04    |
| Laboratory Number: | 28910                | Date Sampled:    | 06-01-04    |
| Chain of Custody:  | 12242                | Date Received:   | 06-02-04    |
| Sample Matrix:     | Soil                 | Date Analyzed:   | 06-06-04    |
| Preservative:      | Cool                 | Date Digested:   | 06-04-04    |
| Condition:         | Cool & Intact        | Analysis Needed: | RCRA Metals |

| Parameter | Concentration<br>(mg/Kg) | Det.<br>Limit<br>(mg/Kg) | TCLP Regulatory<br>Level<br>(mg/Kg) |
|-----------|--------------------------|--------------------------|-------------------------------------|
| Arsenic   | 0.006                    | 0.001                    | 5.0                                 |
| Barium    | 0.622                    | 0.001                    | 100                                 |
| Cadmium   | 0.001                    | 0.001                    | 1.0                                 |
| Chromium  | 0.004                    | 0.001                    | 5.0                                 |
| Lead      | 0.004                    | 0.001                    | 5.0                                 |
| Mercury   | ND                       | 0.001                    | 0.2                                 |
| Selenium  | 0.002                    | 0.001                    | 1.0                                 |
| Silver    | ND                       | 0.001                    | 5.0                                 |

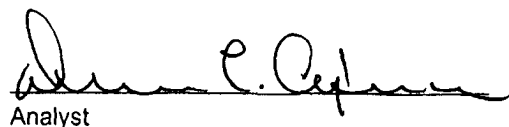
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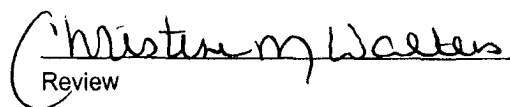
References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils.  
SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emission Spectroscopy, SW-846, USEPA, December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C  
section 261.24, August 24, 1998.

Comments: **Pits.**

  
Analyst

  
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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW


EC, SAR, ESP, CI Analysis

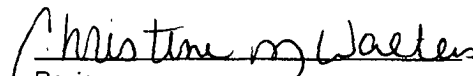
|                    |                      |                 |           |
|--------------------|----------------------|-----------------|-----------|
| Client:            | Burlington Resources | Project #:      | 92115-001 |
| Sample ID:         | Howell K 4 C         | Date Reported:  | 06-06-04  |
| Laboratory Number: | 28910                | Date Sampled:   | 06-01-04  |
| Chain of Custody:  | 12242                | Date Received:  | 06-02-04  |
| Sample Matrix:     | Soil                 | Date Extracted: | 06-04-04  |
| Preservative:      | Cool                 | Date Analyzed:  | 06-06-04  |
| Condition:         | Cool & Intact        |                 |           |

| Parameter                         | Analytical Result | Units    |
|-----------------------------------|-------------------|----------|
| Conductivity @ 25° C              | 8,070             | umhos/cm |
| Calcium                           | 240               | mg/Kg    |
| Magnesium                         | <0.01             | mg/Kg    |
| Sodium                            | 1,150             | mg/Kg    |
| Sodium Absorption Ratio (SAR)     | 28.9              | ratio    |
| Exchangeable Sodium Percent (ESP) | 29.1              | percent  |
| Chloride                          | 840               | mg/Kg    |

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.

Comments: Pits.

  
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