

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: Williams Production Co., LLC Telephone: 505-634-4219 e-mail address: myke.lane@williams.com
Address: POB 640, Aztec, NM 87410
Facility or well name: Rosa 115 API #: 30-039-23483 U/L or Qtr/Qtr H Sec 22 T 31N R 06W
County: RIO ARRIBA Latitude _____ Longitude _____ NAD: 1927 ☐ 1983 ☒
Surface Owner: Federal ☒ State ☐ Private ☐ Indian ☐

RCVD DEC 20 '07

Pit

Type: Drilling ☐ Production ☒ Disposal ☐
Workover ☐ Emergency ☐
Lined ☐ Unlined ☐
Liner type: Synthetic ☐ Thickness _____ mil Clay ☐
Pit Volume _____ bbl

Below-grade tank

Volume: 120 bbl Type of fluid: Produced Water OIL CONS. DIV.
Construction material: Fiberglass with Plastic Liner DIST. 3
Double-walled, with leak detection? Yes ☒ 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) |

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) |

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 ft or more, but less than 1000 feet | ✓ (10 points) |
| 1000 feet or more | (0 points) |

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 _____. (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:

Location Plugged and Abandoned, BGT closed. Composite soil sample collected following removal of tank and liner 11/2/2007.

See attached site diagram and soil sample results.

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: 12/17/07

Printed Name/Title Michael K. Lane/EH&S Specialist

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:

**Deputy Oil & Gas Inspector,
District #3**

Printed Name/Title

Signature

Date:

JAN 08 2008

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

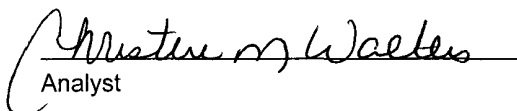
| | | | |
|----------------------|------------------|---------------------|----------------|
| Client: | Williams Prod | Project #: | 04108-003-3578 |
| Sample ID: | RU 115 MV | Date Reported: | 11-13-07 |
| Laboratory Number: | 43604 <i>GLA</i> | Date Sampled: | 11-02-07 |
| Chain of Custody No: | 3578 | Date Received: | 11-07-07 |
| Sample Matrix: | Soil | Date Extracted: | 11-09-07 |
| Preservative: | Cool | Date Analyzed: | 11-12-07 |
| Condition: | Cool & Intact | Analysis Requested: | 8015 TPH |

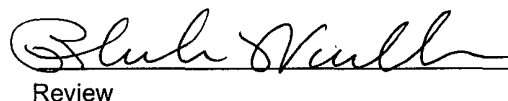
| Parameter | Concentration (mg/Kg) | Det. Limit (mg/Kg) |
|------------------------------|--------------------------|--------------------------|
| Gasoline Range (C5 - C10) | ND | 0.2 |
| Diesel Range (C10 - C28) | 0.3 | 0.1 |
| Total Petroleum Hydrocarbons | 0.3 | 0.2 |

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: **Rosa 115 - Pit Closures.**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

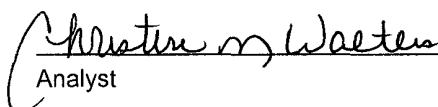
| | | | |
|----------------------|---------------|---------------------|----------------|
| Client: | Williams Prod | Project #: | 04108-003-3578 |
| Sample ID: | RU 115 DK | Date Reported: | 11-13-07 |
| Laboratory Number: | 43605 | Date Sampled: | 11-02-07 |
| Chain of Custody No: | 3578 | Date Received: | 11-07-07 |
| Sample Matrix: | Soil | Date Extracted: | 11-09-07 |
| Preservative: | Cool | Date Analyzed: | 11-12-07 |
| Condition: | Cool & 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: **Rosa 115 - Pit Closures.**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

| | | | |
|--------------------|---------------------|---------------------|----------------|
| Client: | Williams Prod. | Project #: | 04108-003-3578 |
| Sample ID: | RU 115 MV <i>GL</i> | Date Reported: | 11-13-07 |
| Laboratory Number: | 43604 | Date Sampled: | 11-02-07 |
| Chain of Custody: | 3578 | Date Received: | 11-07-07 |
| Sample Matrix: | Soil | Date Analyzed: | 11-12-07 |
| Preservative: | Cool | Date Extracted: | 11-09-07 |
| Condition: | Cool & Intact | Analysis Requested: | BTEX |

| Parameter | Concentration (ug/Kg) | Det. Limit (ug/Kg) |
|--------------|--------------------------|--------------------------|
| Benzene | ND | 0.9 |
| Toluene | ND | 1.0 |
| Ethylbenzene | ND | 1.0 |
| p,m-Xylene | ND | 1.2 |
| o-Xylene | ND | 0.9 |
| Total BTEX | ND | |

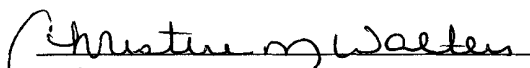
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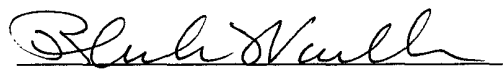
| Surrogate Recoveries: | Parameter | Percent Recovery |
|-----------------------|---------------------|------------------|
| | Fluorobenzene | 97.0 % |
| | 1,4-difluorobenzene | 97.0 % |
| | Bromochlorobenzene | 97.0 % |

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: Rosa 115 - Pit Closures.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

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|--------------------|----------------|---------------------|----------------|
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| Sample ID: | RU 115 DK | Date Reported: | 11-13-07 |
| Laboratory Number: | 43605 | Date Sampled: | 11-02-07 |
| Chain of Custody: | 3578 | Date Received: | 11-07-07 |
| Sample Matrix: | Soil | Date Analyzed: | 11-12-07 |
| Preservative: | Cool | Date Extracted: | 11-09-07 |
| Condition: | Cool & Intact | Analysis Requested: | BTEX |

| Parameter | Concentration (ug/Kg) | Det. Limit (ug/Kg) |
|--------------|--------------------------|--------------------------|
| Benzene | ND | 0.9 |
| Toluene | ND | 1.0 |
| Ethylbenzene | ND | 1.0 |
| p,m-Xylene | ND | 1.2 |
| o-Xylene | ND | 0.9 |
| Total BTEX | ND | |

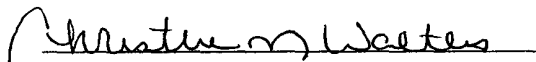
ND - Parameter not detected at the stated detection limit.

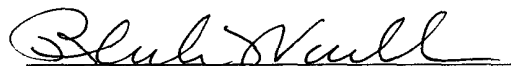
| Surrogate Recoveries: | Parameter | Percent Recovery |
|-----------------------|---------------------|------------------|
| | Fluorobenzene | 97.0 % |
| | 1,4-difluorobenzene | 97.0 % |
| | Bromochlorobenzene | 97.0 % |

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Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Rosa 115 - Pit Closures.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

Chloride

| | | | |
|----------------|------------------|-------------------|----------------|
| Client: | Williams Prod | Project #: | 04108-003-3578 |
| Sample ID: | RU 115 MV | Date Reported: | 11-12-07 |
| Lab ID#: | 43604 <i>GLM</i> | Date Sampled: | 11-02-07 |
| Sample Matrix: | Soil | Date Received: | 11-07-07 |
| Preservative: | Cool | Date Analyzed: | 11-12-07 |
| Condition: | Cool and Intact | Chain of Custody: | 3578 |

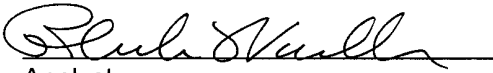
| Parameter | Concentration (mg/Kg) |
|-----------|-----------------------|
|-----------|-----------------------|

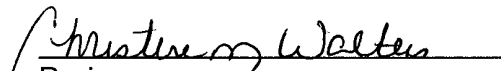
Total Chloride

34.0

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

Comments: Rosa 115 - Pit Closures.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

Chloride

| | | | |
|----------------|-----------------|-------------------|----------------|
| Client: | Williams Prod | Project #: | 04108-003-3578 |
| Sample ID: | RU 115 DK | Date Reported: | 11-12-07 |
| Lab ID#: | 43605 | Date Sampled: | 11-02-07 |
| Sample Matrix: | Soil | Date Received: | 11-07-07 |
| Preservative: | Cool | Date Analyzed: | 11-12-07 |
| Condition: | Cool and Intact | Chain of Custody: | 3578 |

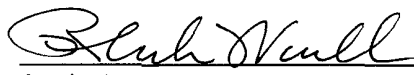
| Parameter | Concentration (mg/Kg) |
|-----------|-----------------------|
|-----------|-----------------------|

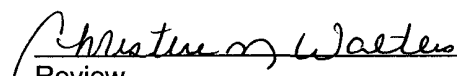
Total Chloride

24.0

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

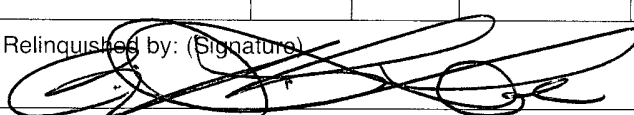
Comments: Rosa 115 - Pit Closures.


Analyst


Review

CHAIN OF CUSTODY RECORD

3578

| Client: <i>Williams Prod.</i> | | | Project Name / Location: <i>Rosa 115 - Pit Closures</i> | | | ANALYSIS / PARAMETERS | | | | | | | | | | | | | | | | |
|--|-------------|--------------|--|---------------|---------------------------|--|------|--|--------------------|-------------------|---------------|----------------|-----|---------------|-----|-------------|-----------|------|------|--|-------------|---------------|
| Client Address: | | | Sampler Name: | | | | | | | | | | | | | | | | | | | |
| Client Phone No.: | | | Client No.: <i>04108-003-3578</i> | | | | | | | | | | | | | | | | | | | |
| Sample No / Identification | Sample Date | Sample Time | Lab No. | Sample Matrix | No / Volume of Containers | Preservative H ₂ O ₂ HNO ₃ | | TPH (Method 8015) | BTEX (Method 8021) | VOC (Method 8260) | RCRA 8 Metals | Cation / Anion | RCI | TCLP with H/P | PAH | TPH (418.1) | <i>CI</i> | | | | Sample Cool | Sample Intact |
| <i>R115 MV</i> | <i>11/2</i> | <i>12:30</i> | <i>43604</i> | <i>Soil</i> | <i>1</i> | | | <i>-</i> | <i>✓</i> | <i>✓</i> | | | | | | | <i>✓</i> | | | | <i>✓</i> | <i>✓</i> |
| <i>R115 DK</i> | <i>11/2</i> | <i>12:30</i> | <i>43605</i> | <i>Soil</i> | <i>1</i> | | | <i>-</i> | <i>✓</i> | <i>✓</i> | | | | | | | <i>✓</i> | | | | <i>✓</i> | <i>✓</i> |
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| Relinquished by: (Signature)  | | | | | | Date | Time | Received by: (Signature) <i>Christine M. Walters</i> | | | | | | | | | | Date | Time | | | |
| 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

Williams Production Company
Rosa 115 GL DK
22H 31N 06W
Rio Arriba County N.M.

