

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., 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

JUL 29 2015

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

| | |
|--|--|
| Name of Company: Roddy Production Co. | Contact Jeremy Divine |
| Address: PO Box 2221 Farmington NM 87499 | Telephone No. 432 557 6778 |
| Facility Name Chacon Jicarilla Apache D #108 | Facility Type Oil Well |
| Surface Owner: Jicarilla Apache Nation | Mineral Owner: Jicarilla Apache Nation |
| API No. 30-043-20431 | |

LOCATION OF RELEASE

| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
|-------------|---------|----------|-------|---------------|------------------|---------------|----------------|----------|
| G | 26 | 23N | 3W | 1650 | North | 1850 | East | Sandoval |

Latitude: 36 Deg. 11' 51.12" N Longitude: 107 Deg. 07' 23.55" W

NATURE OF RELEASE

| | | |
|--|---|--|
| Type of Release Oil | Volume of Release: Unknown | Volume Recovered 0 |
| Source of Release: Oil Tank | Date and Hour of Occurrence 1:00 PM 7/9/2015 | Date and Hour of Discovery 1:00 PM 7/9/2015 |
| Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required | If YES, To Whom? Verbal to Jason Sandoval from JOGA, Emailed JOGA, NMOCD & BLM | |
| By Whom? Trey Tixier and Jeremy Divine | Date and Hour: Jason 2:00 pm, Email 5:30 PM | |
| Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If YES, Volume Impacting the Watercourse. | |

If a Watercourse was Impacted, Describe Fully.*

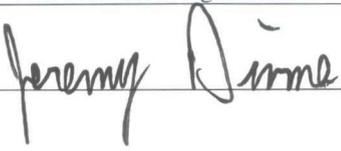
Describe Cause of Problem and Remedial Action Taken.*

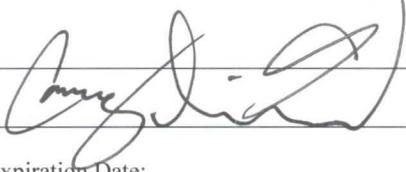
On July 9th 2015, oil tanks on the Chacon Jicarilla D #108 were struck by lightning catching both tanks on fire. The explosion blew the tops of both tanks off. Due to muddy road conditions it took a lot longer to get fire trucks on the scene and they were unable to extinguish the fire. Around 9:00 pm the oil in the tanks boiled over spreading the fire into the firewall and onto location. The fire was then put out by fire fighters. Total volume of oil spilled is unknown due to the amount of time the fire burned inside of the tanks but according to gauges 111.89 bbls was lost in tank GI 1644 and 21.71 bbls was lost in tank GI 1644. On July 10th 2015 contaminated soil was picked up on the outside of the firewall and put inside of the firewall to prevent rain from spreading the oil any further. The week of July 13th 2015, 206 yards of contaminated soil was hauled to TNT Land farm in Lindrith NM. On Friday July 17 Envirotech took 5 point composite soil samples from 6 sections of the spill area. Lab analysis confirmed all section were below 2500 PPM TPH. JOGA EPO Hobson Sandoval and Shari Ketcham w/ BLM approved backfilling if necessary with approved soil and installing a new tank. Lab analysis and photos are attached.

Describe Area Affected and Cleanup Action Taken.*

The area affected is approximately 105'W x 125' L diameter area around the tanks. Both tanks were removed, 206 yards of contaminated soil removed and hauled to TNT Land farm in Lindrith NM, 6 five point composite samples taken to lab for analysis. Lab results confirmed TPH, Benzene and BTEX were below regulatory standards for a spill ranking of 0 and 2500 TPH. All regulatory agencies were notified and sent results via email. Jicarilla Apache Nation approved top soil was brought in for firewalls, some backfilling and one new tank was set. Well was returned to production and 60.12 bbls oil was returned to location on 7/28/2015.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature:  OIL CONSERVATION DIVISION

| | | |
|--|---|-----------------------------------|
| Printed Name: Jeremy Divine | Approved by Environmental Specialist:  | |
| Title: Foreman | Approval Date: 8/12/15 | Expiration Date: |
| E-mail Address: jdivine@crowquest.com | Conditions of Approval: | Attached <input type="checkbox"/> |
| Date: 7/28/2015 Phone: 432 557 6778 | | |

* Attach Additional Sheets If Necessary

#NCS 15 205 42383

Analytical Report

Report Summary

Client: Crown Quest Operating

Chain Of Custody Number:

Samples Received: 7/17/2015 1:58:00PM

Job Number: 07151-0017

Work Order: P507039

Project Name/Location: Chacon Jicarilla Apache D
#108

Entire Report Reviewed By:



Date: 7/22/15

Tim Cain, Laboratory Manager

Supplement to analytical report generated on: 7/22/15 2:20 pm

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.



| | | |
|--|--|------------------------------|
| Crown Quest Operating PO 2221 Farmington NM, 87499 | Project Name: Chacon Jicarilla Apache D #108 Project Number: 07151-0017 Project Manager: Felipe Aragon | Reported: 22-Jul-15 15:16 |
|--|--|------------------------------|

Analytical Report for Samples

| Client Sample ID | Lab Sample ID | Matrix | Sampled | Received | Container |
|------------------|---------------|--------|----------|----------|------------------|
| Section #5 | P507039-01A | Soil | 07/17/15 | 07/17/15 | Glass Jar, 4 oz. |

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5796 US Highway 64, Farmington, NM 87401

Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301

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envirotech-inc.com
laboratory@envirotech-inc.com

| | | |
|--|--|-------------------------------------|
| Crown Quest Operating PO 2221 Farmington NM, 87499 | Project Name: Chacon Jicarilla Apache D #108 Project Number: 07151-0017 Project Manager: Felipe Aragon | Reported: 22-Jul-15 15:16 |
|--|--|-------------------------------------|

Section #5
P507039-01 (Solid)

| Analyte | Result | Reporting | | | Batch | Prepared | Analyzed | Method | Notes |
|--|------------|-----------|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | Dilution | | | | | |
| Nonhalogenated Organics by 8015 | | | | | | | | | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1530002 | 07/20/15 | 07/21/15 | EPA 8015D | |
| Diesel Range Organics (C10-C28) | 989 | 30.0 | mg/kg | 1 | 1530008 | 07/21/15 | 07/21/15 | EPA 8015D | |
| Surrogate: <i>o</i> -Terphenyl | | 162 % | | 50-200 | 1530008 | 07/21/15 | 07/21/15 | EPA 8015D | |
| Surrogate: 4-Bromochlorobenzene-FID | | 97.7 % | | 50-150 | 1530002 | 07/20/15 | 07/21/15 | EPA 8015D | |

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| | | |
|--|--|------------------------------|
| Crown Quest Operating PO 2221 Farmington NM, 87499 | Project Name: Chacon Jicarilla Apache D #108 Project Number: 07151-0017 Project Manager: Felipe Aragon | Reported: 22-Jul-15 15:16 |
|--|--|------------------------------|

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|--------|-----------------|-------|---|---------------|---|-------------|------|-----------|-------|
| Batch 1530002 - Purge and Trap EPA 5030A | | | | | | | | | | |
| Blank (1530002-BLK1) | | | | Prepared & Analyzed: 20-Jul-15 | | | | | | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | | | | | | | |
| Surrogate: 4-Bromochlorobenzene-FID | 0.307 | | " | 0.319 | | 96.1 | 50-150 | | | |
| LCS (1530002-BS1) | | | | Prepared: 20-Jul-15 Analyzed: 21-Jul-15 | | | | | | |
| Gasoline Range Organics (C6-C10) | 433 | 20.0 | mg/kg | 449 | | 96.3 | 80-120 | | | |
| Surrogate: 4-Bromochlorobenzene-FID | 0.311 | | " | 0.320 | | 97.1 | 50-150 | | | |
| Matrix Spike (1530002-MS1) | | | | Source: P507047-02 | | Prepared: 20-Jul-15 Analyzed: 21-Jul-15 | | | | |
| Gasoline Range Organics (C6-C10) | 405 | 20.0 | mg/kg | 449 | ND | 90.1 | 75-125 | | | |
| Surrogate: 4-Bromochlorobenzene-FID | 0.311 | | " | 0.320 | | 97.3 | 50-150 | | | |
| Matrix Spike Dup (1530002-MSD1) | | | | Source: P507047-02 | | Prepared: 20-Jul-15 Analyzed: 21-Jul-15 | | | | |
| Gasoline Range Organics (C6-C10) | 442 | 20.0 | mg/kg | 449 | ND | 98.4 | 75-125 | 8.77 | 15 | |
| Surrogate: 4-Bromochlorobenzene-FID | 0.313 | | " | 0.320 | | 97.8 | 50-150 | | | |

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| | | |
|--|--|-------------------------------------|
| Crown Quest Operating PO 2221 Farmington NM, 87499 | Project Name: Chacon Jicarilla Apache D #108 Project Number: 07151-0017 Project Manager: Felipe Aragon | Reported: 22-Jul-15 15:16 |
|--|--|-------------------------------------|

Nonhalogenated Organics by 8015 - Quality Control
Envirotech Analytical Laboratory

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|--------|-----------------|-------|--------------------------------|---------------|--------------------------------|-------------|------|-----------|-------|
| Batch 1530008 - DRO Extraction EPA 3550M | | | | | | | | | | |
| Blank (1530008-BLK1) | | | | Prepared & Analyzed: 21-Jul-15 | | | | | | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | | | | | | | |
| <i>Surrogate: o-Terphenyl</i> | 44.5 | | " | 40.0 | | 111 | 50-200 | | | |
| LCS (1530008-BS1) | | | | Prepared & Analyzed: 21-Jul-15 | | | | | | |
| Diesel Range Organics (C10-C28) | 604 | 25.0 | mg/kg | 500 | | 121 | 38-132 | | | |
| <i>Surrogate: o-Terphenyl</i> | 49.2 | | " | 40.0 | | 123 | 50-200 | | | |
| Matrix Spike (1530008-MS1) | | | | Source: P507035-01 | | Prepared & Analyzed: 21-Jul-15 | | | | |
| Diesel Range Organics (C10-C28) | 532 | 34.9 | mg/kg | 499 | ND | 107 | 38-132 | | | |
| <i>Surrogate: o-Terphenyl</i> | 46.0 | | " | 39.9 | | 115 | 50-200 | | | |
| Matrix Spike Dup (1530008-MSD1) | | | | Source: P507035-01 | | Prepared & Analyzed: 21-Jul-15 | | | | |
| Diesel Range Organics (C10-C28) | 568 | 34.9 | mg/kg | 499 | ND | 114 | 38-132 | 6.53 | 20 | |
| <i>Surrogate: o-Terphenyl</i> | 47.2 | | " | 39.9 | | 118 | 50-200 | | | |

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Crown Quest Operating
PO 2221
Farmington NM, 87499

Project Name: Chacon Jicarilla Apache D #108
Project Number: 07151-0017
Project Manager: Felipe Aragon

Reported:
22-Jul-15 15:16

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

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Analytical Report

Report Summary

Client: Crown Quest Operating

Chain Of Custody Number:

Samples Received: 7/17/2015 1:58:00PM

Job Number: 07151-0017

Work Order: P507038

Project Name/Location: Chacon Jicarilla Apache D
#108

Entire Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Tim Cain', is written over a horizontal line.

Date: 7/27/15

Tim Cain, Laboratory Manager

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.

Crown Quest Operating
PO 2221
Farmington NM, 87499

Project Name: Chacon Jicarilla Apache D #108
Project Number: 07151-0017
Project Manager: Felipe Aragon

Reported:
27-Jul-15 09:03

Analytical Report for Samples

| Client Sample ID | Lab Sample ID | Matrix | Sampled | Received | Container |
|------------------|---------------|--------|----------|----------|------------------|
| Section 1 | P507038-01A | Soil | 07/17/15 | 07/17/15 | Glass Jar, 4 oz. |
| Section 2 | P507038-02A | Soil | 07/17/15 | 07/17/15 | Glass Jar, 4 oz. |
| Section 3 | P507038-03A | Soil | 07/17/15 | 07/17/15 | Glass Jar, 4 oz. |
| Section 4 | P507038-04A | Soil | 07/17/15 | 07/17/15 | Glass Jar, 4 oz. |
| Section 6 | P507038-05A | Soil | 07/17/15 | 07/17/15 | Glass Jar, 4 oz. |
| Pump Jack | P507038-06A | Soil | 07/17/15 | 07/17/15 | Glass Jar, 4 oz. |

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| | | |
|--|--|-------------------------------------|
| Crown Quest Operating PO 2221 Farmington NM, 87499 | Project Name: Chacon Jicarilla Apache D #108 Project Number: 07151-0017 Project Manager: Felipe Aragon | Reported: 27-Jul-15 09:03 |
|--|--|-------------------------------------|

Section 1
P507038-01 (Solid)

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--|------------|-----------|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Nonhalogenated Organics by 8015 | | | | | | | | | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1530002 | 07/20/15 | 07/21/15 | EPA 8015D | |
| Diesel Range Organics (C10-C28) | 197 | 34.9 | mg/kg | 1 | 1530008 | 07/21/15 | 07/21/15 | EPA 8015D | |
| <i>Surrogate: o-Terphenyl</i> | | 113 % | | 50-200 | 1530008 | 07/21/15 | 07/21/15 | EPA 8015D | |
| <i>Surrogate: 4-Bromochlorobenzene-FID</i> | | 97.4 % | | 50-150 | 1530002 | 07/20/15 | 07/21/15 | EPA 8015D | |

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| | | |
|--|--|------------------------------|
| Crown Quest Operating PO 2221 Farmington NM, 87499 | Project Name: Chacon Jicarilla Apache D #108 Project Number: 07151-0017 Project Manager: Felipe Aragon | Reported: 27-Jul-15 09:03 |
|--|--|------------------------------|

Section 2
P507038-02 (Solid)

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Nonhalogenated Organics by 8015 | | | | | | | | | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1530002 | 07/20/15 | 07/21/15 | EPA 8015D | |
| Diesel Range Organics (C10-C28) | ND | 34.9 | mg/kg | 1 | 1530008 | 07/21/15 | 07/21/15 | EPA 8015D | |
| Surrogate: <i>o</i> -Terphenyl | | 111 % | | 50-200 | 1530008 | 07/21/15 | 07/21/15 | EPA 8015D | |
| Surrogate: 4-Bromochlorobenzene-FID | | 97.9 % | | 50-150 | 1530002 | 07/20/15 | 07/21/15 | EPA 8015D | |

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| | | |
|--|--|-------------------------------------|
| Crown Quest Operating PO 2221 Farmington NM, 87499 | Project Name: Chacon Jicarilla Apache D #108 Project Number: 07151-0017 Project Manager: Felipe Aragon | Reported: 27-Jul-15 09:03 |
|--|--|-------------------------------------|

Section 3
P507038-03 (Solid)

| Analyte | Result | Reporting | | | Batch | Prepared | Analyzed | Method | Notes |
|--|------------|---------------|-------|---------------|----------------|-----------------|-----------------|------------------|-------|
| | | Limit | Units | Dilution | | | | | |
| Nonhalogenated Organics by 8015 | | | | | | | | | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1530002 | 07/20/15 | 07/21/15 | EPA 8015D | |
| Diesel Range Organics (C10-C28) | 102 | 35.0 | mg/kg | 1 | 1530008 | 07/21/15 | 07/21/15 | EPA 8015D | |
| <i>Surrogate: o-Terphenyl</i> | | <i>116 %</i> | | <i>50-200</i> | <i>1530008</i> | <i>07/21/15</i> | <i>07/21/15</i> | <i>EPA 8015D</i> | |
| <i>Surrogate: 4-Bromochlorobenzene-FID</i> | | <i>97.1 %</i> | | <i>50-150</i> | <i>1530002</i> | <i>07/20/15</i> | <i>07/21/15</i> | <i>EPA 8015D</i> | |

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| | | |
|--|--|-------------------------------------|
| Crown Quest Operating PO 2221 Farmington NM, 87499 | Project Name: Chacon Jicarilla Apache D #108 Project Number: 07151-0017 Project Manager: Felipe Aragon | Reported: 27-Jul-15 09:03 |
|--|--|-------------------------------------|

Section 4
P507038-04 (Solid)

| Analyte | Result | Reporting | | | Batch | Prepared | Analyzed | Method | Notes |
|--|------------|-----------|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | Dilution | | | | | |
| Nonhalogenated Organics by 8015 | | | | | | | | | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1530002 | 07/20/15 | 07/21/15 | EPA 8015D | |
| Diesel Range Organics (C10-C28) | 626 | 30.0 | mg/kg | 1 | 1530008 | 07/21/15 | 07/21/15 | EPA 8015D | |
| <i>Surrogate: o-Terphenyl</i> | | 132 % | | 50-200 | 1530008 | 07/21/15 | 07/21/15 | EPA 8015D | |
| <i>Surrogate: 4-Bromochlorobenzene-FID</i> | | 97.3 % | | 50-150 | 1530002 | 07/20/15 | 07/21/15 | EPA 8015D | |

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| | | |
|--|--|-------------------------------------|
| Crown Quest Operating PO 2221 Farmington NM, 87499 | Project Name: Chacon Jicarilla Apache D #108 Project Number: 07151-0017 Project Manager: Felipe Aragon | Reported: 27-Jul-15 09:03 |
|--|--|-------------------------------------|

Section 6
P507038-05 (Solid)

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes | |
|--|------------|-----------|-------|----------|---------|----------|----------|-----------|-------|--|
| | | Limit | Units | | | | | | | |
| Nonhalogenated Organics by 8015 | | | | | | | | | | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 1530002 | 07/20/15 | 07/21/15 | EPA 8015D | | |
| Diesel Range Organics (C10-C28) | 559 | 25.0 | mg/kg | 1 | 1530008 | 07/21/15 | 07/21/15 | EPA 8015D | | |
| <i>Surrogate: o-Terphenyl</i> | | 161 % | | 50-200 | 1530008 | 07/21/15 | 07/21/15 | EPA 8015D | | |
| <i>Surrogate: 4-Bromochlorobenzene-FID</i> | | 97.4 % | | 50-150 | 1530002 | 07/20/15 | 07/21/15 | EPA 8015D | | |

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| | | |
|--|--|-------------------------------------|
| Crown Quest Operating PO 2221 Farmington NM, 87499 | Project Name: Chacon Jicarilla Apache D #108 Project Number: 07151-0017 Project Manager: Felipe Aragon | Reported: 27-Jul-15 09:03 |
|--|--|-------------------------------------|

Pump Jack
P507038-06 (Solid)

| Analyte | Result | Reporting | | | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | Dilution | | | | | |
| TCLP Metals | | | | | | | | | |
| Arsenic | 0.01 | 0.01 | mg/L | 1 | 1530039 | 07/24/15 | 07/24/15 | EPA 6010C | |
| Barium | 0.58 | 0.05 | mg/L | 1 | 1530039 | 07/24/15 | 07/24/15 | EPA 6010C | B |
| Cadmium | ND | 0.01 | mg/L | 1 | 1530039 | 07/24/15 | 07/24/15 | EPA 6010C | |
| Chromium | ND | 0.01 | mg/L | 1 | 1530039 | 07/24/15 | 07/24/15 | EPA 6010C | |
| Lead | ND | 0.01 | mg/L | 1 | 1530039 | 07/24/15 | 07/24/15 | EPA 6010C | |
| Selenium | ND | 0.01 | mg/L | 1 | 1530039 | 07/24/15 | 07/24/15 | EPA 6010C | |
| Silver | ND | 0.01 | mg/L | 1 | 1530039 | 07/24/15 | 07/24/15 | EPA 6010C | |
| TCLP Mercury by EPA 7470A | | | | | | | | | |
| Mercury | ND | 0.0002 | mg/L | 1 | 1530027 | 07/24/15 | 07/24/15 | EPA 7470A | |

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Crown Quest Operating
PO 2221
Farmington NM, 87499

Project Name: Chacon Jicarilla Apache D #108
Project Number: 07151-0017
Project Manager: Felipe Aragon

Reported:
27-Jul-15 09:03

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|--------|-----------------|-------|---|---------------|---|-------------|------|-----------|-------|
| Batch 1530002 - Purge and Trap EPA 5030A | | | | | | | | | | |
| Blank (1530002-BLK1) | | | | Prepared & Analyzed: 20-Jul-15 | | | | | | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | | | | | | | |
| Surrogate: 4-Bromochlorobenzene-FID | 0.307 | | " | 0.319 | | 96.1 | 50-150 | | | |
| LCS (1530002-BS1) | | | | Prepared: 20-Jul-15 Analyzed: 21-Jul-15 | | | | | | |
| Gasoline Range Organics (C6-C10) | 433 | 20.0 | mg/kg | 449 | | 96.3 | 80-120 | | | |
| Surrogate: 4-Bromochlorobenzene-FID | 0.311 | | " | 0.320 | | 97.1 | 50-150 | | | |
| Matrix Spike (1530002-MS1) | | | | Source: P507047-02 | | Prepared: 20-Jul-15 Analyzed: 21-Jul-15 | | | | |
| Gasoline Range Organics (C6-C10) | 405 | 20.0 | mg/kg | 449 | ND | 90.1 | 75-125 | | | |
| Surrogate: 4-Bromochlorobenzene-FID | 0.311 | | " | 0.320 | | 97.3 | 50-150 | | | |
| Matrix Spike Dup (1530002-MSD1) | | | | Source: P507047-02 | | Prepared: 20-Jul-15 Analyzed: 21-Jul-15 | | | | |
| Gasoline Range Organics (C6-C10) | 442 | 20.0 | mg/kg | 449 | ND | 98.4 | 75-125 | 8.77 | 15 | |
| Surrogate: 4-Bromochlorobenzene-FID | 0.313 | | " | 0.320 | | 97.8 | 50-150 | | | |

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| | | |
|--|--|------------------------------|
| Crown Quest Operating PO 2221 Farmington NM, 87499 | Project Name: Chacon Jicarilla Apache D #108 Project Number: 07151-0017 Project Manager: Felipe Aragon | Reported: 27-Jul-15 09:03 |
|--|--|------------------------------|

Nonhalogenated Organics by 8015 - Quality Control
Envirotech Analytical Laboratory

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Batch 1530008 - DRO Extraction EPA 3550M

| | | | | | | | | | | |
|--|------|------|-------|--------------------------------|----|--------------------------------|--------|------|----|--|
| Blank (1530008-BLK1) | | | | Prepared & Analyzed: 21-Jul-15 | | | | | | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | | | | | | | |
| <i>Surrogate: o-Terphenyl</i> | 44.5 | | " | 40.0 | | 111 | 50-200 | | | |
| LCS (1530008-BS1) | | | | Prepared & Analyzed: 21-Jul-15 | | | | | | |
| Diesel Range Organics (C10-C28) | 604 | 25.0 | mg/kg | 500 | | 121 | 38-132 | | | |
| <i>Surrogate: o-Terphenyl</i> | 49.2 | | " | 40.0 | | 123 | 50-200 | | | |
| Matrix Spike (1530008-MS1) | | | | Source: P507035-01 | | Prepared & Analyzed: 21-Jul-15 | | | | |
| Diesel Range Organics (C10-C28) | 532 | 34.9 | mg/kg | 499 | ND | 107 | 38-132 | | | |
| <i>Surrogate: o-Terphenyl</i> | 46.0 | | " | 39.9 | | 115 | 50-200 | | | |
| Matrix Spike Dup (1530008-MSD1) | | | | Source: P507035-01 | | Prepared & Analyzed: 21-Jul-15 | | | | |
| Diesel Range Organics (C10-C28) | 568 | 34.9 | mg/kg | 499 | ND | 114 | 38-132 | 6.53 | 20 | |
| <i>Surrogate: o-Terphenyl</i> | 47.2 | | " | 39.9 | | 118 | 50-200 | | | |

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| | | |
|--|--|------------------------------|
| Crown Quest Operating PO 2221 Farmington NM, 87499 | Project Name: Chacon Jicarilla Apache D #108 Project Number: 07151-0017 Project Manager: Felipe Aragon | Reported: 27-Jul-15 09:03 |
|--|--|------------------------------|

TCLP Metals - Quality Control
Envirotech Analytical Laboratory

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Batch 1530039 - Metal Water/TCLP (EPA 1311) Digestion EPA 3015A

| Blank (1530039-BLK1) | | Prepared & Analyzed: 24-Jul-15 | | | | | | | | |
|-----------------------------------|------|--------------------------------|------|--------------------------------|--------|------|--------|------|----|--|
| Arsenic | ND | 0.01 | mg/L | | | | | | | |
| Barium | 1.62 | 0.05 | " | | | | | | | |
| Cadmium | ND | 0.01 | " | | | | | | | |
| Chromium | ND | 0.01 | " | | | | | | | |
| Lead | ND | 0.01 | " | | | | | | | |
| Selenium | 0.01 | 0.01 | " | | | | | | | |
| Silver | ND | 0.01 | " | | | | | | | |
| Duplicate (1530039-DUP1) | | Source: P507038-06 | | Prepared & Analyzed: 24-Jul-15 | | | | | | |
| Arsenic | ND | 0.01 | mg/L | | 0.01 | | | | 30 | |
| Barium | 0.57 | 0.05 | " | | 0.58 | | | 1.75 | 30 | |
| Cadmium | ND | 0.01 | " | | ND | | | | 30 | |
| Chromium | ND | 0.01 | " | | ND | | | | 30 | |
| Lead | ND | 0.01 | " | | ND | | | | 30 | |
| Selenium | 0.01 | 0.01 | " | | ND | | | | 30 | |
| Silver | ND | 0.01 | " | | ND | | | | 30 | |
| Matrix Spike (1530039-MS1) | | Source: P507038-06 | | Prepared & Analyzed: 24-Jul-15 | | | | | | |
| Arsenic | 0.27 | | mg/L | 0.250 | 0.009 | 104 | 75-125 | | | |
| Barium | 5.64 | | " | 5.00 | 0.49 | 103 | 75-125 | | | |
| Cadmium | 0.26 | | " | 0.250 | 0.004 | 101 | 75-125 | | | |
| Chromium | 0.51 | | " | 0.500 | 0.002 | 102 | 75-125 | | | |
| Lead | 0.49 | | " | 0.500 | 0.0006 | 98.0 | 75-125 | | | |
| Selenium | 0.11 | | " | 0.100 | 0.0005 | 110 | 75-125 | | | |
| Silver | 0.10 | | " | 0.100 | 0.002 | 99.3 | 75-125 | | | |

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laboratory@envirotech-inc.com

| | | |
|--|--|-------------------------------------|
| Crown Quest Operating PO 2221 Farmington NM, 87499 | Project Name: Chacon Jicarilla Apache D #108 Project Number: 07151-0017 Project Manager: Felipe Aragon | Reported: 27-Jul-15 09:03 |
|--|--|-------------------------------------|

TCLP Mercury by EPA 7470A - Quality Control
Envirotech Analytical Laboratory

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Batch 1530027 - Mercury Water/TCLP Digestion KMNO4

| | | | | | | | | | | |
|--|-------|--------|------|--------------------------------|----|--------------------------------|--------|------|----|--|
| Blank (1530027-BLK1) | | | | Prepared & Analyzed: 23-Jul-15 | | | | | | |
| Mercury | ND | 0.0002 | mg/L | | | | | | | |
| LCS (1530027-BS1) | | | | Prepared & Analyzed: 23-Jul-15 | | | | | | |
| Mercury | 0.002 | 0.0002 | mg/L | 0.00229 | | 96.0 | 80-120 | | | |
| Matrix Spike (1530027-MS1) | | | | Source: P507065-01 | | Prepared & Analyzed: 23-Jul-15 | | | | |
| Mercury | 0.002 | 0.0002 | mg/L | 0.00229 | ND | 93.1 | 75-125 | | | |
| Matrix Spike Dup (1530027-MSD1) | | | | Source: P507065-01 | | Prepared & Analyzed: 23-Jul-15 | | | | |
| Mercury | 0.002 | 0.0002 | mg/L | 0.00229 | ND | 94.1 | 75-125 | 1.13 | 15 | |

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| | | |
|--|--|-------------------------------------|
| Crown Quest Operating PO 2221 Farmington NM, 87499 | Project Name: Chacon Jicarilla Apache D #108 Project Number: 07151-0017 Project Manager: Felipe Aragon | Reported: 27-Jul-15 09:03 |
|--|--|-------------------------------------|

Notes and Definitions

- B Analyte is found in the associated blank.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

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Client: Crown West
 Project: Chacon Sicar. 119 Apache #19
 Sampler: F Arayas
 Phone: _____
 Email(s): _____
 Project Manager: F Arayas

RUSH?
 1d
 3d

| | | | | | | |
|---------------------------------|--|---------------------|--------------|--------------|-------------------|------------|
| Lab Use Only | | Analysis and Method | | | | Lab Only |
| Lab WO# P 507038 | | GRO/DRO by 8015 | BTEX by 8021 | TPH by 418.1 | Chloride by 300.0 | Lab Number |
| Job Number 07151-0017 | | | | | | |

Page _____ of _____

| Sample ID | Sample Date | Sample Time | Matrix | Containers QTY - Vol/TYPE/Preservative | GRO/DRO by 8015 | BTEX by 8021 | TPH by 418.1 | Chloride by 300.0 | Lab Number | Correct Cont/Prstv (S/N) |
|----------------------|-------------|-------------|--------|---|-----------------|--------------|--------------|-------------------|------------|--------------------------|
| Section 1 | 7-17-15 | 1021 | S | 1-402 | X | | | | 1 | Y |
| Section 2 | | 1024 | | | | | | | 2 | |
| Section 3 | | 1028 | | | | | | | 3 | |
| Section 4 | | 1035 | | | | | | | 4 | |
| Section 5 | | | | | | | | | | |
| Section 6 | | 1040 | | | X | | | | 5/6 | ✓ |
| Pump Jack | | 1130 | | | | | | X | 6/7 | ✓ |

| | | | | | | | |
|--|-----------------|--------------|--|------------------|---------------|---|----------------|
| Relinquished by: (Signature) <i>[Signature]</i> | Date 7/17/15 | Time 1355 | Received by: (Signature) <i>[Signature]</i> | Date 07/17/15 | Time 13:58 | Lab Use Only **Received on Ice <input checked="" type="checkbox"/> / N | |
| Relinquished by: (Signature) <i>[Signature]</i> | Date | Time | Received by: (Signature) | Date | Time | T1 <u>20.9</u> | T2 <u>17.5</u> |
| | | | | | | AVG Temp °C <u>19.8</u> | |
| | | | | | | T3 <u>21.0</u> | |

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

**Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 8C on subsequent days.

Sample(s) dropped off after hours to a secure drop off area.

Chain of Custody _____ Notes/Billing info: _____



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 Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301

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 Ph (970) 259-0615 Fr (800) 362-1879

Client: Crown West

Project: Chalon Sicarilla Apache #109

Sampler: F Aragon

Phone:

Email(s):

Project Manager: F Aragon

RUSH?

1d

3d

| | | | | | | |
|--------------|--|---------------------|--------------|--------------|-------------------|------------|
| Lab Use Only | | Analysis and Method | | | | Lab O |
| Lab WO# | | GRO/DRO by 8015 | BTEX by 8021 | TPH by 418.1 | Chloride by 300.0 | Lab Number |
| Job Number | | | | | | |
| P 507038 | | 16.6 | | | | Correct Co |
| 07151-0017 | | PCRA TML Metals | | | | |

Page of

| Sample ID | Sample Date | Sample Time | Matrix | Containers QTY - Vol/TYPE/Preservative | GRO/DRO by 8015 | BTEX by 8021 | TPH by 418.1 | Chloride by 300.0 | 16.6 | PCRA TML Metals | Lab Number | Correct Co |
|----------------------|-------------|-------------|--------|---|-----------------|--------------|--------------|-------------------|------|-----------------|------------|------------|
| Section 1 | 7-17-15 | 1021 | S | 1-402 | X | | | | | | 1 | Y |
| Section 2 | | 1024 | | | | | | | | | 2 | |
| Section 3 | | 1028 | | | | | | | | | 3 | |
| Section 4 | | 1035 | | | | | | | | | 4 | |
| Section 5 | | | | | | | | | | | | |
| Section 6 | | 1040 | | | X | | | | | | 5/6 | ✓ |
| Pump Jack | | 1130 | | | | | | X | X | | 6/7 | ✓ |

per Felipe
7-22-15
JC

| | | | | | | |
|------------------------------|---------|------|--------------------------|----------|-------|--|
| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time | Lab Use Only |
| | 7/17/15 | 1355 | | 07/17/15 | 13:58 | **Received on Ice <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N |
| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time | T1 20.9 T2 17.5 T3 21.0 |
| | | | | | | AVG Temp °C 19.8 |

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

**Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6C on subsequent days.

Sample(s) dropped off after hours to a secure drop off area.

Chain of Custody

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