

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

Form C-144
Revised June 6, 2013

For temporary pits, below-grade tanks, and multi-well fluid management pits, submit to the appropriate NMOCD District Office.
For permanent pits submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

Pit, Below-Grade Tank, or
Proposed Alternative Method Permit or Closure Plan Application

16427
Type of action: ☐ Below grade tank registration
☐ Permit of a pit or proposed alternative method
☒ Closure of a pit, below-grade tank, or proposed alternative method
☐ Modification to an existing permit/or registration
☐ Closure plan only submitted for an existing permitted or non-permitted pit, below-grade tank, or proposed alternative method

Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or alternative request

Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.

1.
Operator: Roddy Production Co. OGRID #: 36845
Address: PO Box 2221 Farmington NM 87499-2221
Facility or well name: Chacon Jicarilla Apache D #2
API Number: 30-039-21181 OCD Permit Number: _____
U/L or Qtr/Qtr D Section 14 Township 23N Range 3W County: Rio Arriba
Center of Proposed Design: Latitude 36.228863 Longitude -107.131765 NAD: ☐ 1927 ☐ 1983
Surface Owner: ☐ Federal ☐ State ☐ Private ☐ Tribal Trust or Indian Allotment

2.
☐ **Pit:** Subsection F, G or J of 19.15.17.11 NMAC
Temporary: ☐ Drilling ☐ Workover
☐ Permanent ☐ Emergency ☐ Cavitation ☐ P&A ☐ Multi-Well Fluid Management Low Chloride Drilling Fluid ☐ yes ☐ no
☐ Lined ☐ Unlined Liner type: Thickness _____ mil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other _____
☐ String-Reinforced
Liner Seams: ☐ Welded ☐ Factory ☐ Other _____ Volume: _____ bbl Dimensions: L _____ x W _____ x D _____

3.
☒ **Below-grade tank:** Subsection I of 19.15.17.11 NMAC
Volume: 60 bbl Type of fluid: Produced Water
Tank Construction material: Fiberglass
☐ Secondary containment with leak detection ☐ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other _____
Liner type: Thickness _____ mil ☐ HDPE ☐ PVC ☐ Other _____
NMOCD
JUL 27 2018
DISTRICT III

4.
☐ **Alternative Method:**
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

5.
Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)
☐ Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution or church)
☐ Four foot height, four strands of barbed wire evenly spaced between one and four feet
☐ Alternate. Please specify 4' Hog wire fence

99

6.

Netting: Subsection E of 19.15.17.11 NMAC (*Applies to permanent pits and permanent open top tanks*)

☐ Screen ☐ Netting ☐ Other _____

☐ Monthly inspections (If netting or screening is not physically feasible)

7.

Signs: Subsection C of 19.15.17.11 NMAC

☐ 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers

☐ Signed in compliance with 19.15.16.8 NMAC

8.

Variances and Exceptions:

Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.

Please check a box if one or more of the following is requested, if not leave blank:

☐ Variance(s): Requests must be submitted to the appropriate division district for consideration of approval.

☐ Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

9.

Siting Criteria (regarding permitting): 19.15.17.10 NMAC

Instructions: *The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Siting criteria does not apply to drying pads or above-grade tanks.*

General siting

Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank.

- ☐ NM Office of the State Engineer - iWATERS database search; ☐ USGS; ☐ Data obtained from nearby wells

☐ Yes ☐ No

☐ NA

Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit.

NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells

☐ Yes ☐ No

☐ NA

Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. **(Does not apply to below grade tanks)**

- Written confirmation or verification from the municipality; Written approval obtained from the municipality

☐ Yes ☐ No

Within the area overlying a subsurface mine. **(Does not apply to below grade tanks)**

- Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division

☐ Yes ☐ No

Within an unstable area. **(Does not apply to below grade tanks)**

- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map

☐ Yes ☐ No

Within a 100-year floodplain. **(Does not apply to below grade tanks)**

- FEMA map

☐ Yes ☐ No

Below Grade Tanks

Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark).

- Topographic map; Visual inspection (certification) of the proposed site

☒ Yes ☐ No

Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;

- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site

☐ Yes ☒ No

Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)

Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.)

- Topographic map; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial application.

- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image

☐ Yes ☐ No

Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application.

NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

Within 100 feet of a wetland.

- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

Temporary Pit Non-low chloride drilling fluid

Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).

- Topographic map; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.

- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image

☐ Yes ☐ No

Within 500 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application;

- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

Within 300 feet of a wetland.

- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

Permanent Pit or Multi-Well Fluid Management Pit

Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).

- Topographic map; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.

- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image

☐ Yes ☐ No

Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application.

- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

Within 500 feet of a wetland.

- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

10.

Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC

Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

- ☐ Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC
- ☐ Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC
- ☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
- ☐ Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
- ☐ Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC

☐ Previously Approved Design (attach copy of design) API Number: _____ or Permit Number: _____

11.

Multi-Well Fluid Management Pit Checklist: Subsection B of 19.15.17.9 NMAC

Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

- ☐ Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
- ☐ A List of wells with approved application for permit to drill associated with the pit.
- ☐ Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC

- ☐ Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC
- ☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC

☐ Previously Approved Design (attach copy of design) API Number: _____ or Permit Number: _____

12.

Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC

Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

- ☐ Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC
☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
☐ Climatological Factors Assessment
☐ Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC
☐ Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC
☐ Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC
☐ Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC
☐ Quality Control/Quality Assurance Construction and Installation Plan
☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
☐ Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
☐ Nuisance or Hazardous Odors, including H₂S, Prevention Plan
☐ Emergency Response Plan
☐ Oil Field Waste Stream Characterization
☐ Monitoring and Inspection Plan
☐ Erosion Control Plan
☐ Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC

13.

Proposed Closure: 19.15.17.13 NMAC

Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.

- Type: ☐ Drilling ☐ Workover ☐ Emergency ☐ Cavitation ☐ P&A ☐ Permanent Pit ☐ Below-grade Tank ☐ Multi-well Fluid Management Pit
☐ Alternative
- Proposed Closure Method: ☐ Waste Excavation and Removal
☐ Waste Removal (Closed-loop systems only)
☐ On-site Closure Method (Only for temporary pits and closed-loop systems)
 ☐ In-place Burial ☐ On-site Trench Burial
☐ Alternative Closure Method

14.

Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) **Instructions:** Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.

- ☐ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC
☐ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC
☐ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)
☐ Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
☐ Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC

15.

Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC

Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. Please refer to 19.15.17.10 NMAC for guidance.

Ground water is less than 25 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA
Ground water is between 25-50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input type="checkbox"/> No
Written confirmation or verification from the municipality; Written approval obtained from the municipality	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	

adopted pursuant to NMSA 1978, Section 3-27-3, as amended.

- Written confirmation or verification from the municipality; Written approval obtained from the municipality

☐ Yes ☐ No

Within the area overlying a subsurface mine.

- Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division

☐ Yes ☐ No

Within an unstable area.

- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map

☐ Yes ☐ No

Within a 100-year floodplain.

- FEMA map

☐ Yes ☐ No

16.

On-Site Closure Plan Checklist: (19.15.17.13 NMAC) *Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.*

- ☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
☐ Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC
☐ Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17.11 NMAC
☐ Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.11 NMAC
☐ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC
☐ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC
☐ Waste Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC
☐ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved)
☐ Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
☐ Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC

17.

Operator Application Certification:

I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief.

Name (Print): _____ Title: _____

Signature: _____ Date: _____

e-mail address: _____ Telephone: _____

18.

OCD Approval: ☐ Permit Application (including closure plan) ☒ Closure Plan (only) ☐ OCD Conditions (see attachment)

OCD Representative Signature: _____ Approval Date: 7/31/2018

Title: Environmental Specialist OCD Permit Number: _____

19.

Closure Report (required within 60 days of closure completion): 19.15.17.13 NMAC

Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.

☒ Closure Completion Date: 06/16/2018

20.

Closure Method:

- ☒ Waste Excavation and Removal ☐ On-Site Closure Method ☐ Alternative Closure Method ☐ Waste Removal (Closed-loop systems only)
☐ If different from approved plan, please explain.

21.

Closure Report Attachment Checklist: *Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached.*

- ☒ Proof of Closure Notice (surface owner and division)
☐ Proof of Deed Notice (required for on-site closure for private land only)
☐ Plot Plan (for on-site closures and temporary pits)
☒ Confirmation Sampling Analytical Results (if applicable)
☐ Waste Material Sampling Analytical Results (required for on-site closure)
☒ Disposal Facility Name and Permit Number
☒ Soil Backfilling and Cover Installation
☐ Re-vegetation Application Rates and Seeding Technique
☒ Site Reclamation (Photo Documentation)

On-site Closure Location: Latitude 36.228863 Longitude -107.131765 NAD: ☐ 1927 ☐ 1983

Operator Closure Certification:

I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.

Name (Print): Jeremy Divine Title: Foreman

Signature:  Date: 7/26/2018

e-mail address: jdivine@crowquest.com Telephone: 432 557 6778

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

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 Company	Contact: Jeremy Divine
Address: P.O. Box 2221 Farmington NM 87499	Telephone No. 432-557-6778
Facility Name: Chacon Jicarilla Apache D#2	Facility Type: Below Grade Tank

Surface Owner Jicarilla Apache Nation	Mineral Owner Natural Resources (Jicarilla Apache Nation)	API No. 30-039-21181
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
D	14	23N	03W	790	North	990'	West	Rio Arriba

Latitude 36.228863 Longitude -107.131765

NATURE OF RELEASE

Type of Release: Hydrocarbon	Volume of Release: Unknown	Volume Recovered: 0
Source of Release: Below Grade Tank	Date and Hour of Occurrence: Unknown	Date and Hour of Discovery: 5/31/18
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Thomas Cacucha, Jicarilla EPO Officer	
By Whom?	Date and Hour	
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.* Below Grade Tank overflowed at some point in time with visible staining around tank. During onsite visit, the Jicarilla EPO recommended closing BGT. A closure and reclamation plan was submitted to BIA, JOGA, BLM and NMOCD, once approved closure started on 5/31/2018.		
Describe Area Affected and Cleanup Action Taken.* See attached sheet		
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:	Expiration Date:	
E-mail Address: jdivine@crowquest.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: July 26, 2018 Phone: 432 557 6778			

* Attach Additional Sheets If Necessary

Describe Area Affected and Cleanup Action Taken.*

The area around the BGT was excavated and oil stained soil was found around the sides and below the BGT. Jicarilla EPO recommended we remove the contaminated soil below and around the sides before sampling. The BGT was originally set in the old reserve pit from drilling operations in 1976. Due to this a large amount of trash was excavated. The Jicarilla EPO requested all trash be excavated and removed from area. The area excavated measured 30'W x 30'L x 8'D and a total of 213 yards of soil was removed and taken to Envirotech land farm permit#NM01-0011. On 6/1/18 Envirotech arrived onsite and one 5 point composite sample was collected directly beneath the BGT and all 4 side walls. Samples were screened in the field for TPH. Field analysis determined the south wall needed to be excavated further and an additional 1' of soil was excavated. All samples were then placed in glass jars and taken to Envirotech lab. Thomas Cacucha with the Jicarilla EPO was onsite for all excavation and field analysis. Lab results listed below confirmed the west wall was over the most stringent standard for GRO, DRO & ORO but within the 51' to 100' to groundwater criteria. The East, North and South walls were over the most stringent standard for chlorides but were within the 51' to 100' depth to ground water criteria. After searching every section in T23N R03W and T24N R03W on the IWaters database, the shallowest depth to groundwater was 100'. Roddy Production sought permission from all regulatory agencies and was given permission by Hobson Sandoval with the Jicarilla EPO to backfill and close the excavated area. The area was backfilled with Jicarilla approved material and a steel 95 bbl above grade tank was installed. A closure report, C-144, lab analysis and pictures will be filed along with this report.

Table 1, Summary of Analytical Results

Crown Quest Operating, LLC.
Chacon Jicarilla Apache D #2
BGT Closure Report
Project Number 07151-0022

Date	Sample Description	Sample Number	PID OV (ppm)	USEPA Method 8015 TPH (GRO, DRO & ORO) (ppm)	USEPA Method 300.0 Chloride (ppm)	USEPA Method 8260	
						Benzene (ppm)	BTEX (ppm)
NA	New Mexico Oil Conservation Division Standards	NA	NA	100	N/A	10	50
6/1/2018	Bottom	2	4	49.7	87.7	ND	ND
6/1/2018	East	3	0.2	ND	2,260	ND	ND
6/1/2018	North	4	0.0	ND	1,530	ND	ND
6/1/2018	West	5	1.1	488	606	ND	ND
6/1/2018	South	7	0.1	ND	751	ND	ND

Jeremy Divine

From: Jeremy Divine
Sent: Tuesday, June 12, 2018 1:53 PM
To: 'Hobson Sandoval'; 'tscachucha505apache@hotmail.com'; Smith, Cory, EMNRD; Fields, Vanessa, EMNRD; Scott, Sarah; Guillermo (guillermo.deherrera@jicarillaoga.com); Orson Harrison; 'Jason Sandoval'; Bryce Hammond; 'Alfred Vigil Jr.'; 'Sandoval, Kurt'
Cc: 'deedra.mike@bia.gov'; 'marlena.reval@bia.gov'; Trey Tixier
Subject: Roddy Production Chacon Jicarilla Apache D#2 30-039-21181 BGT lab results
Attachments: P806003 Envirotech2_v15 FINAL 11 Jun 18 1658.pdf; 1721_001.pdf

All,

Attached are the lab results from CJA D#2 BGT. Due to the BGT being placed over the reserve pit we encountered a lot of trash that had to be removed. The size of the area excavated is 30' x 30' x 6'D. Analysis for the bottom of the excavated area is below the most stringent standard for BGT closure criteria. Sidewall analysis are above the most stringent closure standards but do not go over the 51'– 100' depth to groundwater criteria. After searching every section in T23N R03W and T24N 03W in the IWaters database, the shallowest depth to groundwater found was 100'. Roddy Production believes the TPH and chloride levels will not affect water quality, plant or animal life. We are seeking approval to close and backfill the BGT area. Please advise.

Thank you

Jeremy Divine
Cell. 432 557 6778
jdivine@crownquest.com
4001 N. Butler, Building 7101
Farmington, NM 87499

CrownQuest Operating

Roddy Production Co.



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the
POD suffix indicates the
POD has been replaced
& no longer serves a
water right file.)

(R=POD has
been replaced,
O=orphaned,
C=the file is
closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub- Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
SJ 01859	SJ	RA		4	21	24N	03W			306247	4018537*	324	200	124
SJ 02130	SJ	RA		2	2	15	24N	03W		308117	4021115*	273	100	173
SJ 02172	SJ	RA		4	4	2	12	24N	03W	311460	4022170*	340	140	200
SJ 02217	SJ	RA		2	2	2	05	24N	03W	305069	4024489*	550	120	430
SJ 02515	SJ	RA		3	4	4	03	24N	03W	308060	4023025*	1000	650	350
SJ 02515 DCL	O	RA		3	4	4	03	24N	03W	308060	4023025*	1000	650	350
SJ 02516	SJ	RA		1	3	1	06	24N	03W	302693	4024121*	1000	650	350
SJ 02516 DCL	O	RA		1	3	1	06	24N	03W	302693	4024121*	1000	650	350
SJ 02952	SJ	RA		2	2	1	26	24N	03W	308951	4017983*	400		
SJ 02953	SJ	RA		1	4	3	13	24N	03W	310404	4019967*	70		
SJ 02954	SJ	RA		4	2	4	35	24N	03W	309703	4015355*	380		
SJ 02955	SJ	RA		1	1	4	35	24N	03W	309101	4015562*	350		
SJ 02956	SJ	RA		2	2	1	26	24N	03W	308951	4017983*	360		
SJ 02958	SJ	RA		2	3	4	24	24N	03W	310971	4018350*	168		
SJ 04218 POD1	SJ	RA		4	2	2	03	24N	03W	308344	4024332	394	326	68
SJ 04219 POD1	SJ	RA		2	1	09	24N	03W		305757	4022868	334	196	138

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the
POD suffix indicates the
POD has been replaced
& no longer serves a
water right file.)

(R=POD has
been replaced,
O=orphaned,
C=the file is
closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
SJ 00403	SJ	SA		3	2	2	15	23N	03W	307811	4011399*	1403		

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

Record Count: 1

Basin/County Search:

Basin: San Juan

PLSS Search:

Section(s): 1, 2, 3, 4, 5, 6,
7, 8, 9, 10, 11,
12, 13, 14, 15,
16, 17, 18, 19,
20, 21, 22, 23,
24, 25, 26, 27,
28, 29, 30, 31,
32, 33, 34, 35,
36

Township: 23N

Range: 03W

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

Average Depth to Water: 368 feet
Minimum Depth: 100 feet
Maximum Depth: 650 feet

Record Count: 16

Basin/County Search:

Basin: San Juan

PLSS Search:

Section(s): 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36	Township: 24N	Range: 03W
---	---------------	------------

<cltecube@yahoo.com>

Subject: Re: Roddy Production Chacon Jicarilla Apache D#2 30-039-21181 BGT lab results

Trey Tixier, the lab values are below OCD closure standards. So, you have Jicarilla Apache Environmental Protection Office (EPO) approval to back fill. I understand Jason Sandoval has located a pond to get back fill. Let me know when you will back fill the site.

Jeremy Divine

From: Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us>
Sent: Wednesday, June 13, 2018 3:28 PM
To: Jeremy Divine; Hobson Sandoval; Jason Sandoval; Cordell Tecube; Guillermo (guillermo.deherrera@jicarillaoga.com); Scott, Sarah; Smith, Cory, EMNRD; Bryce Hammond; Alfred Vigil Jr.; tscachucha505apache@hotmail.com; 'Sandoval, Kurt'; Orson Harrison; deedra.mike@bia.gov; marlena.reval@bia.gov
Subject: RE: Roddy Production Chacon Jicarilla Apache D#2 30-039-21181 BGT lab results

Good afternoon Jeremy,

As approved by the Jicarilla JEPO please include this request in your final C-144 closure packet.

Thank you,

Vanessa Fields
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 119
Cell: (505) 419-0463
vanessa.fields@state.nm.us

From: Jeremy Divine <jdivine@crownquest.com>
Sent: Tuesday, June 12, 2018 4:30 PM
To: Hobson Sandoval <hsandoval2012@gmail.com>; Jason Sandoval <jasonsandoval@jicarillaoga.com>; Cordell Tecube <cltecube@yahoo.com>; Guillermo (guillermo.deherrera@jicarillaoga.com) <guillermo.deherrera@jicarillaoga.com>; Scott, Sarah <:sscott@blm.gov>; Smith, Cory, EMNRD <Cory.Smith@state.nm.us>; Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us>; Bryce Hammond <b01hammo@blm.gov>; Alfred Vigil Jr. <alfredvigiljr@jicarillaoga.com>; tscachucha505apache@hotmail.com; 'Sandoval, Kurt' <kurt.sandoval@bia.gov>; Orson Harrison <orsonharrison@jicarillaoga.com>; deedra.mike@bia.gov; marlena.reval@bia.gov
Subject: RE: Roddy Production Chacon Jicarilla Apache D#2 30-039-21181 BGT lab results

Thank you Hobson. I want to make sure we're all on the same page.

Jeremy Divine
Cell. 432 557 6778
jdivine@crownquest.com
4001 N. Butler, Building 7101
Farmington, NM 87499

CrownQuest Operating
Roddy Production Co.

From: Hobson Sandoval [<mailto:hsandoval2012@gmail.com>]
Sent: Tuesday, June 12, 2018 3:49 PM
To: Jeremy Divine <jdivine@crownquest.com>; Jason Sandoval <jasonsandoval@jicarillaoga.com>; Cordell Tecube

Jeremy Divine

From: Jeremy Divine
Sent: Thursday, May 24, 2018 3:12 PM
To: 'Sandoval, Kurt'; 'sscott@blm.gov'; Hobson Sandoval; Guillermo (guillermo.deherrera@jicarillaoga.com); 'Jason Sandoval'; 'Alfred Vigil Jr.'; Bryce Hammond, BLM Supervisor; Orson Harrison; Smith, Cory, EMNRD; Fields, Vanessa, EMNRD
Cc: 'deedra.mike@bia.gov'; 'marlena.reval@bia.gov'; Trey Tixier
Subject: Roddy Production Chacon Jicarilla Apache D#2 (30-039-21181) BGT closure plan
Attachments: Chacon Jicarilla Apache D#2 Notification and Closure Plan.pdf

All,

Attached is Roddy Productions notification, closure and reclamation plan for the Chacon Jicarilla Apache D#2. A copy will be mailed today to the BIA Jicarilla Agency as well. If approved we would like to start on Thursday May 31st, 2018. Please let me or Trey Tixier (505 793 3794) know if you have any questions or if you need more information.

Sincerely,

Jeremy Divine
Cell. 432 557 6778
jdivine@crowquest.com
4001 N. Butler, Building 7101
Farmington, NM 87499

CrownQuest Operating

Roddy Production Co.

May 24, 2018

Attn: BIA Jicarilla Agency

P.O. Box 167

Dulce, NM 87528

RE: Chacon Jicarilla Apache D#2 BGT Closure

To whom it may concern,

This is Roddy Productions notification of our intent to close the Below Grade Tank on the Chacon Jicarilla Apache D#2 API# 30-039-21181, UL-D, S-14, T23N, R3W. Included is the closure and reclamation plan. If approved we plan to start closing Thursday May 31st, 2018. All activities will be coordinated with the Jicarilla Apache Nation, BLM and NMOCD. Please contact me if you have any questions or concerns.

Sincerely,



Jeremy Divine

Roddy Production/CrownQuest Operating

432 557 6778

jdivine@crowquest.com

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Attn: BIA Jicarilla Agency
P.O. Box 167
Dulce, NM 87528



9590 9403 0657 5183 5072 91

2. Article Number (Transfer from service label)

7013 2250 0001 2785 5286

PS Form 3811, April 2015 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Kenny Harrison*☐ Agent☐ Addressee

B. Received by (Printed Name)

Kenny Harrison

C. Date of Delivery

5-29-18

D. Is delivery address different from item 1? ☐ YesIf YES, enter delivery address below: ☐ No

3. Service Type

☐ Adult Signature☐ Adult Signature Restricted Delivery☒ Certified Mail®☐ Certified Mail Restricted Delivery☐ Collect on Delivery☐ Collect on Delivery Restricted Delivery☐ Priority Mail Express®☐ Registered Mail™☐ Registered Mail Restricted Delivery☐ Return Receipt for Merchandise☐ Signature Confirmation™☐ Signature Confirmation Restricted Delivery☐ Restricted Delivery

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Guillermo DeHerrera
P.O. Box 146
Dulce, NM 87528



9590 9403 0657 5183 5069 11

2. Article Number (Transfer from service label)

91 7199 9991 7034 0410 8005

PS Form 3811, April 2015 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Eugenio Obile*☐ Agent☐ Addressee

B. Received by (Printed Name)

Eugenio Obile

C. Date of Delivery

D. Is delivery address different from item 1? ☐ YesIf YES, enter delivery address below: ☐ No

3. Service Type

☒ Adult Signature☐ Adult Signature Restricted Delivery☒ Certified Mail®☐ Certified Mail Restricted Delivery☐ Collect on Delivery☐ Collect on Delivery Restricted Delivery☐ Priority Mail Express®☐ Registered Mail™☐ Registered Mail Restricted Delivery☐ Return Receipt for Merchandise☐ Signature Confirmation™☐ Signature Confirmation Restricted Delivery☐ Restricted Delivery

Domestic Return Receipt



IN REPLY REFER TO:
Branch of Real Estate Services

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF INDIAN AFFAIRS
JICARILLA AGENCY
P.O. BOX 167
DULCE, NEW MEXICO 87528

MAY 30 2018



Mr. Trey Tixier
Crown Quest Operating, LLC
P.O. Box 2221
Farmington, New Mexico 87499

Dear Mr. Tixier:

This is in response to your request, dated **May 30, 2018**, for Permission to Perform Work (PTPW) on the following location, which is on Tribal Surface:

Lease No. 413, Chacon Jicarilla Apache D #2:

Located in Section 14, Township 23 North, Range 3 West, N.M.P.M. Rio Arriba County, New Mexico (API No. 30-039-21181).

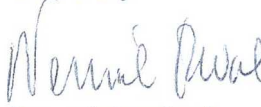
Scope of Work:

Remove below grade tank on the above indicated location.

The Bureau of Indian Affairs, Jicarilla Agency, hereby grants Crown Quest Operating, LLC and its contractor's permission to perform work on the above indicated location. Please submit an affidavit of completion or final report when completed.

If you have any questions or concerns, please contact Mr. Kurt Sandoval, Realty Officer, at (575) 759-3936.

Sincerely,


Superintendent

cc: Jicarilla Oil and Gas Administration

Jeremy Divine

From: Jason Sandoval <jasonsandoval@jicarillaoga.com>
Sent: Tuesday, June 12, 2018 9:01 AM
To: Trey Tixier; Jeremy Divine; Orson Harrison
Subject: Borrow Site Jicarilla Apache D#2
Attachments: SMINOLTA_2018061207490.pdf

Trey,

Here is the request for approval, CrownQuest is authorize up to 1000 cubic yards. I (Jicarilla Oil & Gas Administration) would like a full report after the job is completed.

If you have any questions, concerning this matter feel free to contact me at the following numbers below.

Jason Sandoval
Jicarilla Oil & Gas Administration
jasonsandoval@jicarillaoga.com
(575) 759-3485 Office
(575) 419-0347 Cell



OIL & GAS ADMINISTRATION

JICARILLA APACHE NATION

P.O. BOX 146 • #6 DULCE ROCK ROAD • DULCE, NM 87528
575.759.3485 • 575.759.3881 FAX • www.jicarillaoga.com

Jeremy Devine
Foreman
Crown Quest Operating LLC
Farmington, NM 87499

June 12, 2018

Dear Jeremy,

This letter is to serve as approval by the Jicarilla Oil & Gas Administration (JOGA) utilize materials from the borrow pit located off of J-20, Lat. 36.229398, Long. 107.132724. This will be for the Jicarilla Apache D#2 well location.

Crown Quest is authorized to remove up to 1,000 cubic yards of materials from this location. Jicarilla Oil & Gas would like a **FINAL REPORT** of the work and how much material was taken for the backfill and firewalls.

Call me with any questions or comments.

Regards,

A handwritten signature in black ink, appearing to read "JS", is written over a horizontal line.

Jason Sandoval
Compliance & Enforcement
Jicarilla Oil & Gas Administration

File:

Cc: Guillermo De Herrera, Director Oil & Gas

**Closure and Reclamation Plan
Roddy Production Co., Inc.
Chacon Jicarilla Apache D#2 Production Single Wall BGT
API 30-039-21181, UL-D, S-14, T23N, R3W**

In Accordance with Rule 19.15.17.13 NMAC, the following plan describes the general closure requirements of below grade tanks on Roddy Production Co. locations in the San Juan Basin of New Mexico. This is Roddy Production's standard closure plan for all BGT's under Rule 19.15.17 NMAC and operated by Roddy Production Co. For closures that do not conform to this standard closure plan, a separate BGT specific closure plan will be developed and utilized.


Closure Conditions and Timing for BGT:

- Within 60 days of cessation of operation Roddy Production will:
 - Remove all Liquids/ sludge and dispose of in a division approved manner
- Within 72 hrs or 1 week prior to closure Roddy Production will:
 - Give notice to surface owners by certified mail. For public entities by email as specified on variance page.
 - Give notice to District Division verbally and in writing/email
- Within 6 months of cessation of operation Roddy Production will:
 - Remove BGT and dispose, recycle, reuse or reclaim in a division approved manner
 - Remove unused onsite equipment associated with the BGT
- Within 60 Days of closure Roddy Production will:
 - Send the District Division a closure report per 19.15.17.13.F

General Plan Requirements:

1. Prior to initiating any BGT closure except in case of emergency, Roddy Production will notify the surface owner of the intent to close the BGT by certified mail no later than 72 hrs or 1 week before closure and a copy of this notification will be included in the closure report. In case of emergency, the surface owner of record will be notified as soon as practical.
2. Notice of the closure will be given to the Aztec District office between 72 hrs and 1 week of the scheduled closure via email or phone. The notification of closure will include the following.
 - a. Operators Name (Roddy Production)
 - b. Well name and API number
 - c. Location (USTR)
3. All liquids will be removed from the BGT following cessation of operation. Produced water will be disposed of at one of the following NMOCD approved facilities depending on the proximity to the BGT site: Agua Moss Pretty Lady SWD #1 (Permit#1034-A), Agua Moss Sunco SWD #1 (Permit# CL1-005) or Basin Disposal (Permit #-NM 01-005), T-n-T Environmental (permit# NM-01-0008)
4. Solids and sludge's will be shoveled or vacuumed out for disposal at Envirotech (Permit # -NM01-0011), or JFJ Land Farm/ Industrial Ecosystems Inc. (Permit # NM 01-0010B)
5. Roddy Production will obtain prior approval from NMOCD to dispose, recycle, reuse or reclaim the BGT and provide documentation of the disposition of the BGT in the closure report. Steel materials will be recycled or reused as approved by the Division. Fiberglass tanks will be empty, cut up or shredded and EPA cleaned without soils or contaminated material for disposal as solid waste. Fiberglass and liner materials will meet the conditions of 19.15.35 NMAC. Disposal will be at a licensed disposal facility, presently San Juan Regional Landfill operated by Waste Management under NMED Permit SWM-052426
6. Any Equipment associated with the BGT that is no longer required for some other purpose, following the closure will be removed from location.

7. Following the removal of the tank and any liner material, Roddy Production will test the soils beneath the BGT as follows: If depth to groundwater cannot be identified the most stringent standard will be followed.

TABLE I Closure criteria for soils beneath Below Grade Tanks, Drying pads associated with Closed Loop systems and pits where contents are removed			
Depth below bottom of pit to groundwater less than 10,000 mg/L TDS	Constituent	Method*	Limit**
 ≤ 50 feet	Chloride	EPA 300.0	600 mg/kg
	TPH	EPA SW-846 Method 418.1	100 mg/kg
	BTEX	EPA SW-846 Method 801B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8015M	10 mg/kg
51 feet-100 feet	Chloride	EPA 300.0	10,000 mg/kg
	TPH	EPA SW-846 Method 418.1	2,500 mg/kg
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 801B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8015M	10 mg/kg
> 100 feet	Chloride	EPA 300.0	20,000 mg/kg
	TPH	EPA SW-846 Method 418.1	2,500 mg/kg
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 801B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8015M	10 mg/kg

* Or test method approved by the division

** Numerical limits or natural background, whichever is greater

- a) At a minimum, a five point composite sample will be taken to include any obvious stained or wet soils or any other evidence of contamination.
- b) The laboratory sample shall be analyzed for the constituents listed in Table I of 19.15.17.13
 - (1) Or other test methods approved by the Division
 - (2) Numerical limits or natural background level, whichever is greater (19.15.17.13 MAC-Ro, 19.15.17.13 NMAC 3/28/2013)

8. If the Division and/or Roddy Production determine there is a release, Roddy Production will comply with 19.15.17.13.C.3b
9. Upon completion of the tank removal, the excavation will be backfilled with non-waste earthen material and covered with a minimum of one foot of top soil or background thickness whichever is greater and to existing grade. The surface will be re-contoured to match the native grade and prevent ponding.

For those portions of the former BGT area that are no longer required for production activities, Roddy Production will seed the disturbed areas the first favorable growing season after the BGT is covered. Seeding will be accomplished via drilling on the contour whenever practical, or by other Division approved methods. Roddy Production will notify the Division when reclamation or re-vegetation is complete.

Reclamation of the BGT shall be considered complete when:

- a. Vegetative cover reflects a life form ratio of +/- 50% of pre disturbance levels.
 - b. Total percentage plant cover of at least 70% of pre disturbance levels (excluding noxious weeds)
- OR
- c. Pursuant to 19.15.17.13.H.5d Roddy Production will comply with obligations imposed by other applicable federal or tribal agencies in which their re-vegetation and reclamation requirements provide equal or better protection of fresh water, human health and the environment.
10. For those portions of the former BGT area required for production activities, reseeding will be done at well abandonment, and following the procedure noted above.

Closure Report:

All closure activities will include proper documentation and will be submitted to the NMOCD within 60 days of the BGT closure on a Closure Report Using Division Form C-144. The report will include the following:

- Proof of Closure Notice (Surface Owner & NMOCD)
- Backfilling and cover installation
- Confirmation sampling analytical results
- Disposal Facility Name(s) and permit number(s)
- Application Rate & seeding techniques
- Photo documentation of reclamation



July 10, 2018

Project Number: 07151-0022

Mr. Jeremy Divine
CrownQuest Operating, LLC.
4001 N. Butler, Building 7101
Farmington, New Mexico 87401

Email: jdivine@crownquest.com
Phone: (432) 557-6778

**RE: BELOW-GRADE TANK CLOSURE DOCUMENTATION FOR THE CHACON JICARILLA
APACHE D #2 WELL SITE LOCATED AT SECTION 14, TOWNSHIP 23 NORTH, RANGE 3
WEST, RIO ARriba COUNTY, NEW MEXICO**

Dear Mr. Divine:

Enclosed please find the *Vicinity map*, *Site Map*, *Field Notes*, *Summary of Analytical Results* and *Analytical Results* for below-grade tank (BGT) closure activities conducted at the Chacon Jicarilla Apache D #2 well site located in Section 14, Township 23 North, Range 3 West, Rio Arriba County, New Mexico (site).

Upon Envirotech personnel's arrival on June 1, 2018, a brief site assessment and Job Safety Analysis (JSA) was conducted. The BGT closure standard for the site was determined to be 100 parts per million (ppm) total petroleum hydrocarbons (TPH), 10 ppm benzene, and 50 ppm total benzene, toluene, ethylbenzene, and xylene (total BTEX), and 100 ppm chlorides in accordance with the New Mexico Oil and Gas Conservation Division (NMOCD) regulatory standards.

Prior to Envirotech's arrival, the BGT was removed and the soil adjacent to the location of the BGT was excavated to the extents of approximately thirty (30) feet by thirty (30) feet by eight (8) feet below ground surface (bgs). One (1) five (5)-point composite sample was collected from directly beneath the former BGT and from the north, east, south, and west walls; see enclosed **Field Notes**. The samples were identified as *Bottom*, *North*, *East*, *South*, and *West*; see enclosed **Site Map**. The samples were screened in the field for TPH using USEPA Method 418.1 and organic vapors (OV) using a photoionization detector (PID). The *South* returned a result of 74.6 mg/kg OV and 844 ppm of TPH, the *Bottom* returned a result of 4.0 mg/kg OV and 168 ppm TPH, the *North* returned a result of 0.0 mg/kg OV and 132 ppm TPH the *East* returned a result of 0.2 mg/kg OV and 156 ppm TPH, and the *West* returned a result of 1.1 mg/kg OV and 188 ppm TPH; see enclosed **Field Notes**. The *South* was excavated an additional foot and resampled. The sample, identified as *South (2)*, was screened in the field for TPH and OV and returned a result of 0.1 mg/kg OV and 188 ppm TPH. The five (5) samples were placed into laboratory provided four (4)-ounce glass jars, capped headspace free, and transported on



ice, under chain of custody, to Envirotech's Analytical Laboratory to be analyzed for TPH using USEPA Method 8015D (GRO, DRO, and ORO), Volatile Organic Compounds (VOCs) using USEPA Method 8260B, and Chloride using USEPA Method 300.0. The samples returned results below the regulatory standards for VOCs, a range of non-detect to 488 mg/kg for TPH and a range of 87.7 mg/kg to 2,260 mg/kg for chlorides; see enclosed ***Summary of Analytical Results*** and ***Analytical Results***.

Based on the onsite observation and analytical results, Envirotech, Inc. recommended submitting the analytical results to the Jicarilla Apache Nation Environment Department, the NMOCD, and the Bureau of Land Management (BLM) for review and further recommendations. Based on the on-site observations and analytical results, the regulatory agencies concurred that *No Further Action* was warranted for this project.

We appreciate the opportunity to be of service. If you have any questions or require additional information, please contact our office at (505) 632-0615.

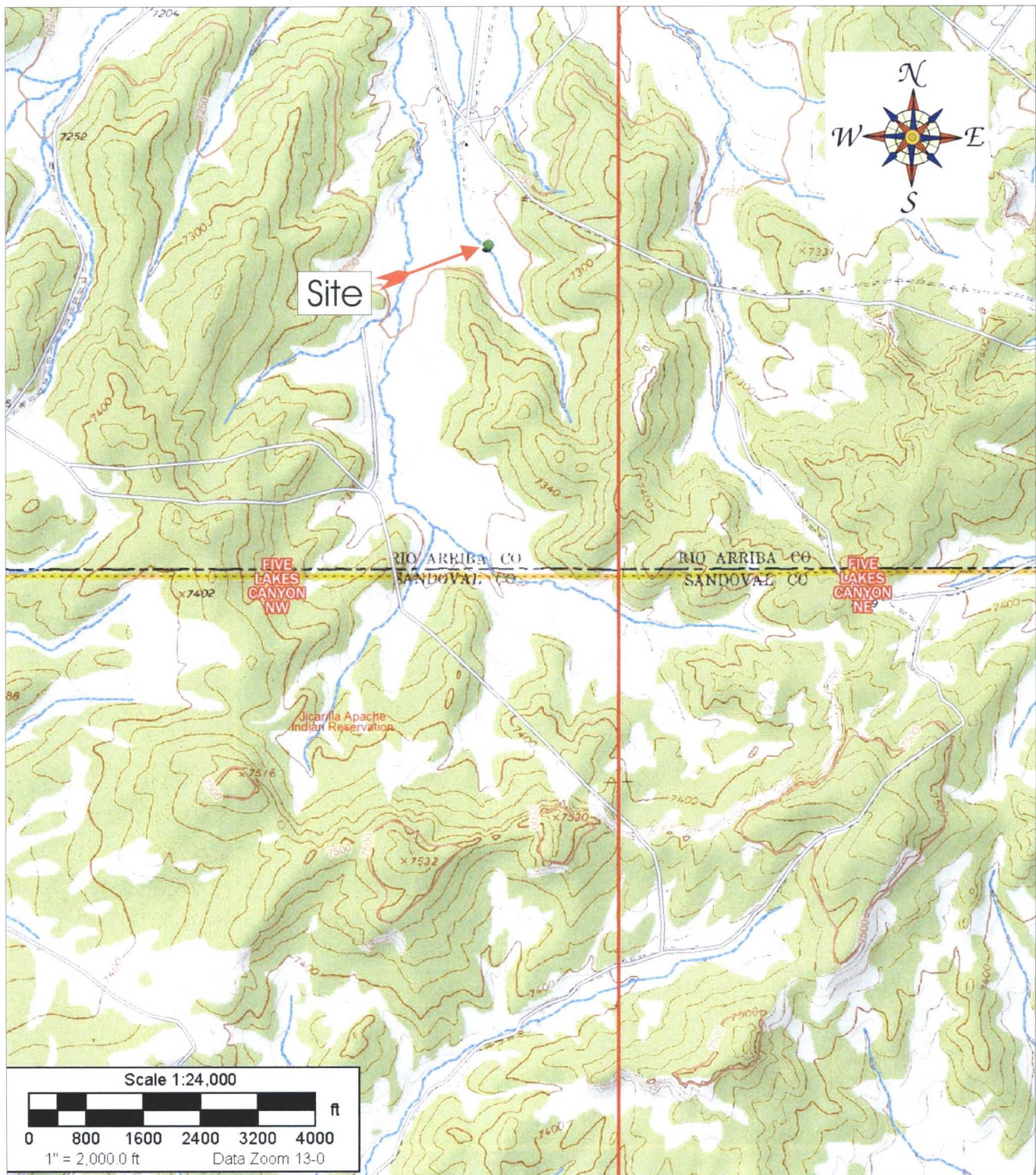
Respectfully submitted,
ENVIROTECH, INC.

A handwritten signature in blue ink, appearing to read 'Brittany Hall', written over a horizontal line.

for
Brittany Hall
Environmental Field Technician
bhall@envirotech-inc.com

Enclosure(s): *Vicinity Map*
Site Map
Field Notes
Summary of Analytical Results
Analytical Results

Cc: Client File Number 07151



Source: 7.5 Minute, Five Lakes Canyon NW, New Mexico U.S.G.S. Topographic Quadrangle Map
 Scale: 1:24,000 1" = 2,000

CrownQuest Operating, LLC.
 Chacon Jicarilla Apache D #2 Well Site
 Section 14, Township 23N, Range 3W,
 Rio Arriba County, New Mexico



5796 U.S. HIGHWAY 64
 Farmington, New Mexico 87401
 505.632.0615

Vicinity Map

Figure #1

Project Number: 07151-0022

Date Drawn: 6/7/18

DRAWN BY:
 Brittany Hall

PROJECT MANAGER:
 Felipe Aragon



LEGEND

- Excavation
- X East X North
- X South X West
- X Bottom
- ⊕ Well Head

SITE MAP
CrownQuest Operating, LLC.
Chacon Jicarilla Apache D #2 Well Site
SECTION 14, TWP 23 NORTH, RANGE 3 WEST
RIO ARriba COUNTY, NEW MEXICO

SCALE: NTS	FIGURE NO. 2	REV
PROJECT NO07151-0022		

REVISIONS			
NO.	DATE	BY	DESCRIPTION
MAP DRWN	BH	6/7/18	BASE DRWN IG 11/7/17



5796 U.S. HIGHWAY 64, FARMINGTON, NM 87401 505-632-0615

CLIENT: Crown Quest operating



Environmental Specialist: B. Hall

CLIENT/JOB # 07151-0022

START DATE: 6/1/18

LAT: 36.228863

FINISH DATE: _____

LONG: -107.131765

Page # _____ of _____

FIELD REPORT: BELOW GROUND TANK VERIFICATION

LOCATION NAME Chacon T. Carrillo Apts. D WELL # 2 Temp Pit _____ PERM Pit _____

QUAD/UNIT D SEC 14 TWP 23N RNG 3W PM _____

QTR/FOOTAGE _____ CNTY Rio Arriba ST Nm

Excavation Approx 30 Feet X 31 Feet X 8 Feet Deep _____ Cubic Yardage _____

Disposal Facility: Envirotech Landfarm #2 Remediation Method Landfarm

Land Owner: T. Carrillo Apts. D API 3003921131 Pit Volume _____

Construction Material: _____ Double Walled, With Leak Detection: _____

Temporary Pit Closure NMAC 19 15 17 Table II (Permitted after 6/28/2013)

BGT Closure NMAC 19 15 17 Table I (Permitted after 6/28/2013)

X BGT Closure BENZENE ≤ 0.2 mg/kg, BTEX ≤ 50 mg/kg, TPH (418.1) ≤ 100 mg/kg, CHLORIDES ≤ 250 mg/kg (Permitted before 6/28/2013)

FIELD 418.1 ANALYSIS

SAMPLE DESCRIPTION	TIME	SAMPLE ID	LAB #	WEIGHT	mL FREON	DILUTION	READING	CALC (mg/kg)
200 gms	909			-	-	-	207	207
waste	924	1		5	20	4	281	1124
Bottom	1004	2					42	168
East	1007	3					39	156

PID RESULTS

SAMPLE ID RESULTS (mg/kg)

See back of
Sheet Blank

FIELD CHLORIDES RESULTS

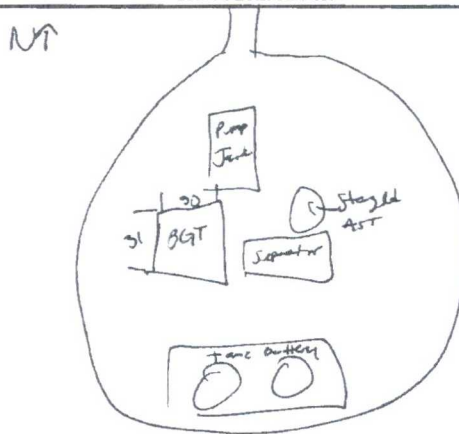
SAMPLE ID READING CALC (mg/kg)

Blank

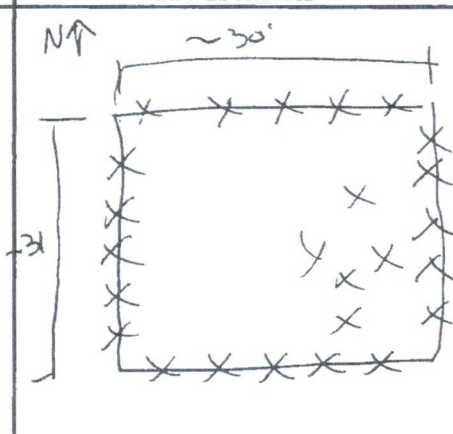
SAMPLE ID ANALYSIS US EPA

Bottom	BENZENE	8021B/8015
North	BTEX	8021B/8026/8
South	GRO & DRO (015)	
East	CHLORIDES (EPA300)	
West	TPH	418.1

SITE PERIMETER



SAMPLE PROFILE



Brittany Hall
Analyst Signature

NOTES

1 more test on back of page

Brittany Hall
Printed Name

WO # _____

Who ordered/Site Rep.: _____

1010 north 4 reading 33
1012 west 5 47
1015 south 6 211

actual
132-
199-
844-

South 7 reading 47 actual 188
Pit Closure Verification 2015

Table 1, Summary of Analytical Results

Crown Quest Operating, LLC.

Chacon Jicarilla Apache D #2

BGT Closure Report

Project Number 07151-0022

Date	Sample Description	Sample Number	PID OV (ppm)	USEPA Method 8015 TPH (GRO, DRO & ORO) (ppm)	USEPA Method 300.0 Chloride (ppm)	USEPA Method 8260	
						Benzene (ppm)	BTEX (ppm)
NA	New Mexico Oil Conservation Division Standards	NA	NA	100	N/A	10	50
6/1/2018	Bottom	2	4	49.7	87.7	ND	ND
6/1/2018	East	3	0.2	ND	2,260	ND	ND
6/1/2018	North	4	0.0	ND	1,530	ND	ND
6/1/2018	West	5	1.1	488	606	ND	ND
6/1/2018	South	7	0.1	ND	751	ND	ND

Analytical Report

Report Summary

Client: Crown Quest Operating

Chain Of Custody Number:

Samples Received: 6/1/2018 1:00:00PM

Job Number: 07151-0022

Work Order: P806003

Project Name/Location: Chacon Jicarilla Apache
D2 BGT Closure

Report Reviewed By:



Date: 6/11/18

Walter Hinchman, Laboratory Director



Date: 6/11/18

Tim Cain, Project Manager



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way.
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Envirotech, Inc, currently holds the appropriate and available Utah TNI certification NM009792018-1 for the data reported.

Crown Quest Operating	Project Name:	Chacon Jicarilla Apache D2 BGT Closure	Reported: 11-Jun-18 16:58
PO 2221	Project Number:	07151-0022	
Farmington NM, 87499	Project Manager:	Felipe Aragon	

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Bottom	P806003-01A	Soil	06/01/18	06/01/18	Glass Jar, 4 oz.
	P806003-01B	Soil	06/01/18	06/01/18	Glass Jar, 4 oz.
East	P806003-02A	Soil	06/01/18	06/01/18	Glass Jar, 4 oz.
	P806003-02B	Soil	06/01/18	06/01/18	Glass Jar, 4 oz.
West	P806003-03A	Soil	06/01/18	06/01/18	Glass Jar, 4 oz.
	P806003-03B	Soil	06/01/18	06/01/18	Glass Jar, 4 oz.
North	P806003-04A	Soil	06/01/18	06/01/18	Glass Jar, 4 oz.
	P806003-04B	Soil	06/01/18	06/01/18	Glass Jar, 4 oz.
South	P806003-05A	Soil	06/01/18	06/01/18	Glass Jar, 4 oz.
	P806003-05B	Soil	06/01/18	06/01/18	Glass Jar, 4 oz.
Waste Characterization	P806003-06A	Soil	06/01/18	06/01/18	Glass Jar, 4 oz.
	P806003-06B	Soil	06/01/18	06/01/18	Glass Jar, 4 oz.

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Crown Quest Operating PO 2221 Farmington NM, 87499	Project Name: Chacon Jicarilla Apache D2 BGT Closure Project Number: 07151-0022 Project Manager: Felipe Aragon	Reported: 11-Jun-18 16:58
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Bottom
P806003-01 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Volatile Organic Compounds by 8260

Dichlorodifluoromethane (Freon-12)	ND	125	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Chloromethane	ND	125	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Vinyl chloride	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Bromomethane	ND	125	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Chloroethane	ND	125	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Trichlorofluoromethane (Freon-11)	ND	125	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,1-Dichloroethene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Acetone	ND	1250	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Methylene Chloride	ND	125	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Methyl tert-Butyl Ether (MTBE)	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
trans-1,2-Dichloroethene	ND	50.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Diisopropyl Ether (DIPE)	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,1-Dichloroethane	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Ethyl tert-Butyl Ether (ETBE)	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
2-Butanone (MEK)	ND	500	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
cis-1,2-Dichloroethene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
2,2-Dichloropropane	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Bromochloromethane	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Chloroform	ND	250	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,1,1-Trichloroethane	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Carbon Tetrachloride	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,1-Dichloropropene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
tert-Amyl Methyl ether (TAME)	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Benzene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,2-Dichloroethane	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Trichloroethene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,2-Dichloropropane	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Dibromomethane	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Bromodichloromethane	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
cis-1,3-Dichloropropene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
4-Methyl-2-pentanone (MIBK)	ND	500	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Toluene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
trans-1,3-Dichloropropene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,1,2-Trichloroethane	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Tetrachloroethene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
2-Hexanone	ND	500	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,3-Dichloropropane	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	

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Crown Quest Operating	Project Name:	Chacon Jicarilla Apache D2 BGT Closure	Reported: 11-Jun-18 16:58
PO 2221	Project Number:	07151-0022	
Farmington NM, 87499	Project Manager:	Felipe Aragon	

Bottom
P806003-01 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Dibromochloromethane	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	62.5	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Chlorobenzene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Ethylbenzene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,1,1,2-Tetrachloroethane	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
p,m-Xylene	ND	50.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
o-Xylene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Total Xylenes	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Styrene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Bromoform	ND	50.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Isopropylbenzene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Bromobenzene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
n-Propyl Benzene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,2,3-Trichloropropane	ND	62.5	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
2-Chlorotoluene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,3,5-Trimethylbenzene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
4-Chlorotoluene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
tert-Butylbenzene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,2,4-Trimethylbenzene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
sec-Butylbenzene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
4-Isopropyltoluene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,3-Dichlorobenzene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,4-Dichlorobenzene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
n-Butyl Benzene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,2-Dichlorobenzene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,2-Dibromo-3-chloropropane (DBCP)	ND	125	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,2,4-Trichlorobenzene	ND	125	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Hexachlorobutadiene	ND	125	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Naphthalene	ND	125	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,2,3-Trichlorobenzene	ND	125	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
2-Methylnaphthalene	ND	250	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1-Methylnaphthalene	ND	250	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130		1823005	06/04/18	06/07/18	EPA 8260B	
Surrogate: Toluene-d8		105 %	70-130		1823005	06/04/18	06/07/18	EPA 8260B	
Surrogate: Bromofluorobenzene		105 %	70-130		1823005	06/04/18	06/07/18	EPA 8260B	

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Crown Quest Operating
 PO 2221
 Farmington NM, 87499

 Project Name: Chacon Jicarilla Apache D2 BGT Closure
 Project Number: 07151-0022
 Project Manager: Felipe Aragon

Reported:
 11-Jun-18 16:58

Bottom
P806003-01 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1823005	06/04/18	06/07/18	EPA 8015D	
Diesel Range Organics (C10-C28)	49.7	25.0	mg/kg	1	1823003	06/04/18	06/06/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1823003	06/04/18	06/06/18	EPA 8015D	
Surrogate: <i>n</i> -Nonane		116 %		50-200	1823003	06/04/18	06/06/18	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4-MS		102 %		70-130	1823005	06/04/18	06/07/18	EPA 8015D	
Surrogate: Toluene-d8-MS		78.7 %		70-130	1823005	06/04/18	06/07/18	EPA 8015D	
Surrogate: Bromofluorobenzene-MS		78.0 %		70-130	1823005	06/04/18	06/07/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	87.7	20.0	mg/kg	1	1823009	06/06/18	06/06/18	EPA 300.0/9056A	

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Crown Quest Operating PO 2221 Farmington NM, 87499	Project Name: Chacon Jicarilla Apache D2 BGT Closure Project Number: 07151-0022 Project Manager: Felipe Aragon	Reported: 11-Jun-18 16:58
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East
P806003-02 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Dichlorodifluoromethane (Freon-12)	ND	125	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Chloromethane	ND	125	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Vinyl chloride	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Bromomethane	ND	125	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Chloroethane	ND	125	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Trichlorofluoromethane (Freon-11)	ND	125	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,1-Dichloroethene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Acetone	ND	1250	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Methylene Chloride	ND	125	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Methyl tert-Butyl Ether (MTBE)	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
trans-1,2-Dichloroethene	ND	50.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Diisopropyl Ether (DIPE)	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,1-Dichloroethane	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Ethyl tert-Butyl Ether (ETBE)	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
2-Butanone (MEK)	ND	500	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
cis-1,2-Dichloroethene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
2,2-Dichloropropane	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Bromochloromethane	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Chloroform	ND	250	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,1,1-Trichloroethane	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Carbon Tetrachloride	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,1-Dichloropropene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
tert-Amyl Methyl ether (TAME)	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Benzene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,2-Dichloroethane	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Trichloroethene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,2-Dichloropropane	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Dibromomethane	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Bromodichloromethane	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
cis-1,3-Dichloropropene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
4-Methyl-2-pentanone (MIBK)	ND	500	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Toluene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
trans-1,3-Dichloropropene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,1,2-Trichloroethane	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Tetrachloroethene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
2-Hexanone	ND	500	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,3-Dichloropropane	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	

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Crown Quest Operating	Project Name:	Chacon Jicarilla Apache D2 BGT Closure	Reported: 11-Jun-18 16:58
PO 2221	Project Number:	07151-0022	
Farmington NM, 87499	Project Manager:	Felipe Aragon	

East
P806003-02 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Dibromochloromethane	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	62.5	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Chlorobenzene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Ethylbenzene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,1,1,2-Tetrachloroethane	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
p,m-Xylene	ND	50.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
o-Xylene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Total Xylenes	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Styrene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Bromoform	ND	50.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Isopropylbenzene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Bromobenzene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
n-Propyl Benzene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,2,3-Trichloropropane	ND	62.5	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
2-Chlorotoluene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,3,5-Trimethylbenzene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
4-Chlorotoluene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
tert-Butylbenzene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,2,4-Trimethylbenzene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
sec-Butylbenzene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
4-Isopropyltoluene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,3-Dichlorobenzene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,4-Dichlorobenzene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
n-Butyl Benzene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,2-Dichlorobenzene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,2-Dibromo-3-chloropropane (DBCP)	ND	125	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,2,4-Trichlorobenzene	ND	125	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Hexachlorobutadiene	ND	125	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Naphthalene	ND	125	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,2,3-Trichlorobenzene	ND	125	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
2-Methylnaphthalene	ND	250	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1-Methylnaphthalene	ND	250	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		105 %	70-130		1823005	06/04/18	06/07/18	EPA 8260B	
Surrogate: Toluene-d8		103 %	70-130		1823005	06/04/18	06/07/18	EPA 8260B	
Surrogate: Bromofluorobenzene		100 %	70-130		1823005	06/04/18	06/07/18	EPA 8260B	

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Crown Quest Operating PO 2221 Farmington NM, 87499	Project Name: Chacon Jicarilla Apache D2 BGT Closure Project Number: 07151-0022 Project Manager: Felipe Aragon	Reported: 11-Jun-18 16:58
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East
P806003-02 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1823005	06/04/18	06/07/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1823003	06/04/18	06/06/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1823003	06/04/18	06/06/18	EPA 8015D	
Surrogate: n-Nonane		111 %		50-200	1823003	06/04/18	06/06/18	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4-MS		106 %		70-130	1823005	06/04/18	06/07/18	EPA 8015D	
Surrogate: Toluene-d8-MS		78.5 %		70-130	1823005	06/04/18	06/07/18	EPA 8015D	
Surrogate: Bromofluorobenzene-MS		79.9 %		70-130	1823005	06/04/18	06/07/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	2260	20.0	mg/kg	1	1823009	06/06/18	06/06/18	EPA 300.0/9056A	

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Crown Quest Operating PO 2221 Farmington NM, 87499	Project Name: Chacon Jicarilla Apache D2 BGT Closure Project Number: 07151-0022 Project Manager: Felipe Aragon	Reported: 11-Jun-18 16:58
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West
P806003-03 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260									
Dichlorodifluoromethane (Freon-12)	ND	125	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Chloromethane	ND	125	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Vinyl chloride	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Bromomethane	ND	125	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Chloroethane	ND	125	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Trichlorofluoromethane (Freon-11)	ND	125	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,1-Dichloroethene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Acetone	ND	1250	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Methylene Chloride	ND	125	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Methyl tert-Butyl Ether (MTBE)	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
trans-1,2-Dichloroethene	ND	50.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Diisopropyl Ether (DIPE)	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,1-Dichloroethane	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Ethyl tert-Butyl Ether (ETBE)	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
2-Butanone (MEK)	ND	500	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
cis-1,2-Dichloroethene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
2,2-Dichloropropane	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Bromochloromethane	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Chloroform	ND	250	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,1,1-Trichloroethane	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Carbon Tetrachloride	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,1-Dichloropropene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
tert-Amyl Methyl ether (TAME)	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Benzene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,2-Dichloroethane	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Trichloroethene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,2-Dichloropropane	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Dibromomethane	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Bromodichloromethane	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
cis-1,3-Dichloropropene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
4-Methyl-2-pentanone (MIBK)	ND	500	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Toluene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
trans-1,3-Dichloropropene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,1,2-Trichloroethane	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Tetrachloroethene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
2-Hexanone	ND	500	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,3-Dichloropropane	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	

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Crown Quest Operating	Project Name:	Chacon Jicarilla Apache D2 BGT Closure	Reported: 11-Jun-18 16:58
PO 2221	Project Number:	07151-0022	
Farmington NM, 87499	Project Manager:	Felipe Aragon	

West
P806003-03 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260									
Dibromochloromethane	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	62.5	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Chlorobenzene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Ethylbenzene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,1,1,2-Tetrachloroethane	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
p,m-Xylene	ND	50.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
o-Xylene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Total Xylenes	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Styrene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Bromoform	ND	50.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Isopropylbenzene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Bromobenzene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
n-Propyl Benzene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,2,3-Trichloropropane	ND	62.5	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
2-Chlorotoluene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,3,5-Trimethylbenzene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
4-Chlorotoluene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
tert-Butylbenzene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,2,4-Trimethylbenzene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
sec-Butylbenzene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
4-Isopropyltoluene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,3-Dichlorobenzene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,4-Dichlorobenzene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
n-Butyl Benzene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,2-Dichlorobenzene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,2-Dibromo-3-chloropropane (DBCP)	ND	125	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,2,4-Trichlorobenzene	ND	125	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Hexachlorobutadiene	ND	125	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Naphthalene	ND	125	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,2,3-Trichlorobenzene	ND	125	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
2-Methylnaphthalene	ND	250	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1-Methylnaphthalene	ND	250	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		112 %	70-130		1823005	06/04/18	06/07/18	EPA 8260B	
Surrogate: Toluene-d8		101 %	70-130		1823005	06/04/18	06/07/18	EPA 8260B	
Surrogate: Bromofluorobenzene		104 %	70-130		1823005	06/04/18	06/07/18	EPA 8260B	

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Crown Quest Operating	Project Name:	Chacon Jicarilla Apache D2 BGT Closure	Reported: 11-Jun-18 16:58
PO 2221	Project Number:	07151-0022	
Farmington NM, 87499	Project Manager:	Felipe Aragon	

West
P806003-03 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1823005	06/04/18	06/07/18	EPA 8015D	
Diesel Range Organics (C10-C28)	221	25.0	mg/kg	1	1823003	06/04/18	06/06/18	EPA 8015D	
Oil Range Organics (C28-C40+)	267	50.0	mg/kg	1	1823003	06/04/18	06/06/18	EPA 8015D	
Surrogate: n-Nonane		147 %		50-200	1823003	06 04 18	06 06 18	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4-MS		102 %		70-130	1823005	06 04 18	06 07 18	EPA 8015D	
Surrogate: Toluene-d8-MS		74.3 %		70-130	1823005	06 04 18	06 07 18	EPA 8015D	
Surrogate: Bromofluorobenzene-MS		76.6 %		70-130	1823005	06 04 18	06 07 18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	606	20.0	mg/kg	1	1823009	06/06/18	06/06/18	EPA 300.0/9056A	

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Crown Quest Operating	Project Name:	Chacon Jicarilla Apache D2 BGT Closure	Reported: 11-Jun-18 16:58
PO 2221	Project Number:	07151-0022	
Farmington NM, 87499	Project Manager:	Felipe Aragon	

North
P806003-04 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260									
Dichlorodifluoromethane (Freon-12)	ND	125	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Chloromethane	ND	125	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Vinyl chloride	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Bromomethane	ND	125	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Chloroethane	ND	125	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Trichlorofluoromethane (Freon-11)	ND	125	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,1-Dichloroethene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Acetone	ND	1250	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Methylene Chloride	ND	125	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Methyl tert-Butyl Ether (MTBE)	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
trans-1,2-Dichloroethene	ND	50.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Diisopropyl Ether (DIPE)	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,1-Dichloroethane	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Ethyl tert-Butyl Ether (ETBE)	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
2-Butanone (MEK)	ND	500	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
cis-1,2-Dichloroethene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
2,2-Dichloropropane	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Bromochloromethane	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Chloroform	ND	250	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,1,1-Trichloroethane	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Carbon Tetrachloride	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,1-Dichloropropene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
tert-Amyl Methyl ether (TAME)	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Benzene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,2-Dichloroethane	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Trichloroethene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,2-Dichloropropane	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Dibromomethane	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Bromodichloromethane	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
cis-1,3-Dichloropropene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
4-Methyl-2-pentanone (MIBK)	ND	500	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Toluene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
trans-1,3-Dichloropropene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,1,2-Trichloroethane	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Tetrachloroethene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
2-Hexanone	ND	500	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,3-Dichloropropane	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	

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Crown Quest Operating PO 2221 Farmington NM, 87499	Project Name: Chacon Jicarilla Apache D2 BGT Closure Project Number: 07151-0022 Project Manager: Felipe Aragon	Reported: 11-Jun-18 16:58
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North
P806003-04 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260									
Dibromochloromethane	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	62.5	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Chlorobenzene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Ethylbenzene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,1,1,2-Tetrachloroethane	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
p,m-Xylene	ND	50.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
o-Xylene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Total Xylenes	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Styrene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Bromoform	ND	50.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Isopropylbenzene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Bromobenzene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
n-Propyl Benzene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,2,3-Trichloropropane	ND	62.5	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
2-Chlorotoluene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,3,5-Trimethylbenzene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
4-Chlorotoluene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
tert-Butylbenzene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,2,4-Trimethylbenzene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
sec-Butylbenzene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
4-Isopropyltoluene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,3-Dichlorobenzene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,4-Dichlorobenzene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
n-Butyl Benzene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,2-Dichlorobenzene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,2-Dibromo-3-chloropropane (DBCP)	ND	125	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,2,4-Trichlorobenzene	ND	125	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Hexachlorobutadiene	ND	125	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Naphthalene	ND	125	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,2,3-Trichlorobenzene	ND	125	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
2-Methylnaphthalene	ND	250	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1-Methylnaphthalene	ND	250	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		106 %	70-130		1823005	06/04/18	06/07/18	EPA 8260B	
Surrogate: Toluene-d8		101 %	70-130		1823005	06/04/18	06/07/18	EPA 8260B	
Surrogate: Bromofluorobenzene		103 %	70-130		1823005	06/04/18	06/07/18	EPA 8260B	

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Crown Quest Operating PO 2221 Farmington NM, 87499	Project Name: Chacon Jicarilla Apache D2 BGT Closure Project Number: 07151-0022 Project Manager: Felipe Aragon	Reported: 11-Jun-18 16:58
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North
P806003-04 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1823005	06/04/18	06/07/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1823003	06/04/18	06/06/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1823003	06/04/18	06/06/18	EPA 8015D	
Surrogate: n-Nonane		125 %		50-200	1823003	06/04/18	06/06/18	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4-MS		105 %		70-130	1823005	06/04/18	06/07/18	EPA 8015D	
Surrogate: Toluene-d8-MS		76.2 %		70-130	1823005	06/04/18	06/07/18	EPA 8015D	
Surrogate: Bromofluorobenzene-MS		78.0 %		70-130	1823005	06/04/18	06/07/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	1530	20.0	mg/kg	1	1823009	06/06/18	06/06/18	EPA 300.0/9056A	

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Crown Quest Operating	Project Name:	Chacon Jicarilla Apache D2 BGT Closure	Reported: 11-Jun-18 16:58
PO 2221	Project Number:	07151-0022	
Farmington NM, 87499	Project Manager:	Felipe Aragon	

South
P806003-05 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260									
Dichlorodifluoromethane (Freon-12)	ND	125	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Chloromethane	ND	125	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Vinyl chloride	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Bromomethane	ND	125	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Chloroethane	ND	125	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Trichlorofluoromethane (Freon-11)	ND	125	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,1-Dichloroethene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Acetone	ND	1250	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Methylene Chloride	ND	125	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Methyl tert-Butyl Ether (MTBE)	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
trans-1,2-Dichloroethene	ND	50.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Diisopropyl Ether (DIPE)	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,1-Dichloroethane	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Ethyl tert-Butyl Ether (ETBE)	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
2-Butanone (MEK)	ND	500	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
cis-1,2-Dichloroethene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
2,2-Dichloropropane	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Bromochloromethane	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Chloroform	ND	250	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,1,1-Trichloroethane	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Carbon Tetrachloride	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,1-Dichloropropene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
tert-Amyl Methyl ether (TAME)	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Benzene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,2-Dichloroethane	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Trichloroethene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,2-Dichloropropane	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Dibromomethane	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Bromodichloromethane	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
cis-1,3-Dichloropropene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
4-Methyl-2-pentanone (MIBK)	ND	500	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Toluene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
trans-1,3-Dichloropropene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,1,2-Trichloroethane	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Tetrachloroethene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
2-Hexanone	ND	500	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,3-Dichloropropane	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	

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Crown Quest Operating PO 2221 Farmington NM, 87499	Project Name: Chacon Jicarilla Apache D2 BGT Closure Project Number: 07151-0022 Project Manager: Felipe Aragon	Reported: 11-Jun-18 16:58
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South
P806003-05 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260									
Dibromochloromethane	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	62.5	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Chlorobenzene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Ethylbenzene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,1,1,2-Tetrachloroethane	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
p,m-Xylene	ND	50.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
o-Xylene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Total Xylenes	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Styrene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Bromoform	ND	50.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Isopropylbenzene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Bromobenzene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
n-Propyl Benzene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,2,3-Trichloropropane	ND	62.5	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
2-Chlorotoluene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,3,5-Trimethylbenzene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
4-Chlorotoluene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
tert-Butylbenzene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,2,4-Trimethylbenzene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
sec-Butylbenzene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
4-Isopropyltoluene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,3-Dichlorobenzene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,4-Dichlorobenzene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
n-Butyl Benzene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,2-Dichlorobenzene	ND	25.0	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,2-Dibromo-3-chloropropane (DBCP)	ND	125	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,2,4-Trichlorobenzene	ND	125	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Hexachlorobutadiene	ND	125	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Naphthalene	ND	125	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1,2,3-Trichlorobenzene	ND	125	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
2-Methylnaphthalene	ND	250	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
1-Methylnaphthalene	ND	250	ug/kg	1	1823005	06/04/18	06/07/18	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130		1823005	06/04/18	06/07/18	EPA 8260B	
Surrogate: Toluene-d8		102 %	70-130		1823005	06/04/18	06/07/18	EPA 8260B	
Surrogate: Bromofluorobenzene		103 %	70-130		1823005	06/04/18	06/07/18	EPA 8260B	

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Crown Quest Operating PO 2221 Farmington NM, 87499	Project Name: Chacon Jicarilla Apache D2 BGT Closure Project Number: 07151-0022 Project Manager: Felipe Aragon	Reported: 11-Jun-18 16:58
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South
P806003-05 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1823005	06/04/18	06/07/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1823003	06/04/18	06/06/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1823003	06/04/18	06/06/18	EPA 8015D	
Surrogate: n-Nonane		137 %		50-200	1823003	06/04/18	06/06/18	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4-MS		105 %		70-130	1823005	06/04/18	06/07/18	EPA 8015D	
Surrogate: Toluene-d8-MS		77.1 %		70-130	1823005	06/04/18	06/07/18	EPA 8015D	
Surrogate: Bromofluorobenzene-MS		78.5 %		70-130	1823005	06/04/18	06/07/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	751	20.0	mg/kg	1	1823009	06/06/18	06/06/18	EPA 300.0/9056A	

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Crown Quest Operating	Project Name:	Chacon Jicarilla Apache D2 BGT Closure	Reported: 11-Jun-18 16:58
PO 2221	Project Number:	07151-0022	
Farmington NM, 87499	Project Manager:	Felipe Aragon	

Waste Characterization
P806003-06 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Metals by 6010									
Arsenic	1.56	0.50	mg/kg	1	1823016	06/07/18	06/08/18	EPA 6010C	
Barium	86.4	6.25	mg/kg	1	1823016	06/07/18	06/08/18	EPA 6010C	
Cadmium	0.40	0.25	mg/kg	1	1823016	06/07/18	06/08/18	EPA 6010C	
Chromium	15.5	0.50	mg/kg	1	1823016	06/07/18	06/08/18	EPA 6010C	
Lead	7.00	0.25	mg/kg	1	1823016	06/07/18	06/08/18	EPA 6010C	
Selenium	ND	1.25	mg/kg	1	1823016	06/07/18	06/08/18	EPA 6010C	
Silver	ND	0.25	mg/kg	1	1823016	06/07/18	06/08/18	EPA 6010C	
Total Mercury by 7471B									
Mercury	ND	20.0	ug/kg	1	1824003	06/11/18	06/11/18	EPA 7471B	

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Crown Quest Operating	Project Name:	Chacon Jicarilla Apache D2 BGT Closure	Reported: 11-Jun-18 16:58
PO 2221	Project Number:	07151-0022	
Farmington NM, 87499	Project Manager:	Felipe Aragon	

Volatile Organic Compounds by 8260 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1823005 - Purge and Trap EPA 5030A

Blank (1823005-BLK1)

Prepared: 04-Jun-18 Analyzed: 07-Jun-18

Dichlorodifluoromethane (Freon-12)	ND	125	ug/kg
Chloromethane	ND	125	"
Vinyl chloride	ND	25.0	"
Bromomethane	ND	125	"
Chloroethane	ND	125	"
Trichlorofluoromethane (Freon-11)	ND	125	"
1,1-Dichloroethene	ND	25.0	"
Acetone	ND	1250	"
Methylene Chloride	ND	125	"
Methyl tert-Butyl Ether (MTBE)	ND	25.0	"
trans-1,2-Dichloroethene	ND	50.0	"
Diisopropyl Ether (DIPE)	ND	25.0	"
1,1-Dichloroethane	ND	25.0	"
Ethyl tert-Butyl Ether (ETBE)	ND	25.0	"
2-Butanone (MEK)	ND	500	"
cis-1,2-Dichloroethene	ND	25.0	"
2,2-Dichloropropane	ND	25.0	"
Bromochloromethane	ND	25.0	"
Chloroform	ND	250	"
1,1,1-Trichloroethane	ND	25.0	"
Carbon Tetrachloride	ND	25.0	"
1,1-Dichloropropene	ND	25.0	"
tert-Amyl Methyl ether (TAME)	ND	25.0	"
Benzene	ND	25.0	"
1,2-Dichloroethane	ND	25.0	"
Trichloroethene	ND	25.0	"
1,2-Dichloropropane	ND	25.0	"
Dibromomethane	ND	25.0	"
Bromodichloromethane	ND	25.0	"
cis-1,3-Dichloropropene	ND	25.0	"
4-Methyl-2-pentanone (MIBK)	ND	500	"
Toluene	ND	25.0	"
trans-1,3-Dichloropropene	ND	25.0	"
1,1,2-Trichloroethane	ND	25.0	"
Tetrachloroethene	ND	25.0	"
2-Hexanone	ND	500	"
1,3-Dichloropropane	ND	25.0	"
Dibromochloromethane	ND	25.0	"
1,2-Dibromoethane (EDB)	ND	62.5	"
Chlorobenzene	ND	25.0	"
Ethylbenzene	ND	25.0	"

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Crown Quest Operating	Project Name:	Chacon Jicarilla Apache D2 BGT Closure	
PO 2221	Project Number:	07151-0022	Reported:
Farmington NM, 87499	Project Manager:	Felipe Aragon	11-Jun-18 16:58

Volatile Organic Compounds by 8260 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1823005 - Purge and Trap EPA 5030A

Blank (1823005-BLK1)

Prepared: 04-Jun-18 Analyzed: 07-Jun-18

1,1,1,2-Tetrachloroethane	ND	25.0	ug/kg							
p,m-Xylene	ND	50.0	"							
o-Xylene	ND	25.0	"							
Total Xylenes	ND	25.0	"							
Styrene	ND	25.0	"							
Bromoform	ND	50.0	"							
Isopropylbenzene	ND	25.0	"							
1,1,2,2-Tetrachloroethane	ND	25.0	"							
Bromobenzene	ND	25.0	"							
n-Propyl Benzene	ND	25.0	"							
1,2,3-Trichloropropane	ND	62.5	"							
2-Chlorotoluene	ND	25.0	"							
1,3,5-Trimethylbenzene	ND	25.0	"							
4-Chlorotoluene	ND	25.0	"							
tert-Butylbenzene	ND	25.0	"							
1,2,4-Trimethylbenzene	ND	25.0	"							
sec-Butylbenzene	ND	25.0	"							
4-Isopropyltoluene	ND	25.0	"							
1,3-Dichlorobenzene	ND	25.0	"							
1,4-Dichlorobenzene	ND	25.0	"							
n-Butyl Benzene	ND	25.0	"							
1,2-Dichlorobenzene	ND	25.0	"							
1,2-Dibromo-3-chloropropane (DBCP)	ND	125	"							
1,2,4-Trichlorobenzene	ND	125	"							
Hexachlorobutadiene	ND	125	"							
Naphthalene	ND	125	"							
1,2,3-Trichlorobenzene	ND	125	"							
2-Methylnaphthalene	ND	250	"							
1-Methylnaphthalene	ND	250	"							
Surrogate: 1,2-Dichloroethane-d4	482		"	500		96.3	70-130			
Surrogate: Toluene-d8	504		"	500		101	70-130			
Surrogate: Bromofluorobenzene	503		"	500		101	70-130			

LCS (1823005-BS1)

Prepared: 04-Jun-18 Analyzed: 11-Jun-18

Dichlorodifluoromethane (Freon-12)	2670	125	ug/kg	2500		107	51-139			
Bromomethane	564	125	"	2500		22.6	10-181			
1,1-Dichloroethene	2450	25.0	"	2500		98.0	61-133			
Acetone	3270	1250	"	5000		65.4	25-178			
Methyl tert-Butyl Ether (MTBE)	2070	25.0	"	2500		82.9	70-130			
1,1-Dichloroethane	2510	25.0	"	2500		101	70-130			
2,2-Dichloropropane	2790	25.0	"	2500		112	61-132			

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Crown Quest Operating PO 2221 Farmington NM, 87499	Project Name: Chacon Jicarilla Apache D2 BGT Closure Project Number: 07151-0022 Project Manager: Felipe Aragon	Reported: 11-Jun-18 16:58
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Volatile Organic Compounds by 8260 - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1823005 - Purge and Trap EPA 5030A

LCS (1823005-BS1)				Prepared: 04-Jun-18 Analyzed: 11-Jun-18						
Carbon Tetrachloride	2640	25.0	ug/kg	2500		106	69-130			
tert-Amyl Methyl ether (TAME)	2180	25.0	"	2500		87.2	65-135			
Benzene	2220	25.0	"	2500		88.7	70-130			
Trichloroethene	2540	25.0	"	2500		102	70-130			
cis-1,3-Dichloropropene	2390	25.0	"	2500		95.4	70-130			
Toluene	2220	25.0	"	2500		88.7	70-130			
Dibromochloromethane	2550	25.0	"	2500		102	70-130			
Chlorobenzene	2500	25.0	"	2500		99.9	70-130			
Ethylbenzene	2510	25.0	"	2500		100	70-130			
p,m-Xylene	4630	50.0	"	5000		92.7	70-130			
o-Xylene	2460	25.0	"	2500		98.5	70-130			
Total Xylenes	7090	25.0	"	7500		94.6	70-130			
Bromoform	2470	50.0	"	2500		98.8	69-135			
Isopropylbenzene	2140	25.0	"	2500		85.8	70-130			
2-Chlorotoluene	2610	25.0	"	2500		104	70-130			
sec-Butylbenzene	2340	25.0	"	2500		93.8	70-130			
1,2-Dichlorobenzene	2490	25.0	"	2500		99.7	70-130			
Naphthalene	2150	125	"	2500		85.9	70-132			
Surrogate: 1,2-Dichloroethane-d4	483		"	500		96.5	70-130			
Surrogate: Toluene-d8	484		"	500		96.7	70-130			
Surrogate: Bromofluorobenzene	505		"	500		101	70-130			

Matrix Spike (1823005-MS1)				Source: P806003-01		Prepared: 04-Jun-18 Analyzed: 07-Jun-18				
Dichlorodifluoromethane (Freon-12)	2770	125	ug/kg	2500	ND	111	31-144			
Bromomethane	589	125	"	2500	ND	23.6	5-189			
1,1-Dichloroethene	2450	25.0	"	2500	ND	98.2	36-142			
Acetone	3380	1250	"	5000	ND	67.5	10-180			
Methyl tert-Butyl Ether (MTBE)	2050	25.0	"	2500	ND	81.9	50-131			
1,1-Dichloroethane	2440	25.0	"	2500	ND	97.5	49-136			
2,2-Dichloropropane	2600	25.0	"	2500	ND	104	45-141			
Carbon Tetrachloride	2390	25.0	"	2500	ND	95.8	46-140			
tert-Amyl Methyl ether (TAME)	2040	25.0	"	2500	ND	81.6	60-140			
Benzene	2130	25.0	"	2500	ND	85.1	48-131			
Trichloroethene	2460	25.0	"	2500	ND	98.3	48-132			
cis-1,3-Dichloropropene	2290	25.0	"	2500	ND	91.5	48-134			
Toluene	2160	25.0	"	2500	ND	86.3	48-130			
Dibromochloromethane	2320	25.0	"	2500	ND	92.9	49-134			
Chlorobenzene	2370	25.0	"	2500	ND	94.7	44-134			
Ethylbenzene	2430	25.0	"	2500	ND	97.4	45-135			
p,m-Xylene	4420	50.0	"	5000	ND	88.4	43-135			
o-Xylene	2350	25.0	"	2500	ND	93.8	43-135			

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Crown Quest Operating	Project Name:	Chacon Jicarilla Apache D2 BGT Closure	Reported: 11-Jun-18 16:58
PO 2221	Project Number:	07151-0022	
Farmington NM, 87499	Project Manager:	Felipe Aragon	

Volatile Organic Compounds by 8260 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1823005 - Purge and Trap EPA 5030A

Matrix Spike (1823005-MS1)		Source: P806003-01		Prepared: 04-Jun-18		Analyzed: 07-Jun-18				
Total Xylenes	6760	25.0	ug/kg	7500	ND	90.2	43-135			
Bromoform	2140	50.0	"	2500	ND	85.6	43-139			
Isopropylbenzene	2030	25.0	"	2500	ND	81.4	41-139			
2-Chlorotoluene	2460	25.0	"	2500	ND	98.4	36-137			
sec-Butylbenzene	2210	25.0	"	2500	ND	88.6	31-142			
1,2-Dichlorobenzene	2340	25.0	"	2500	ND	93.7	35-139			
Naphthalene	2000	125	"	2500	ND	80.1	18-145			
Surrogate: 1,2-Dichloroethane-d4	499		"	500		99.8	70-130			
Surrogate: Toluene-d8	497		"	500		99.3	70-130			
Surrogate: Bromofluorobenzene	504		"	500		101	70-130			

Matrix Spike Dup (1823005-MSD1)		Source: P806003-01		Prepared: 04-Jun-18		Analyzed: 07-Jun-18				
Dichlorodifluoromethane (Freon-12)	2830	125	ug/kg	2500	ND	113	31-144	2.14	30	
Bromomethane	631	125	"	2500	ND	25.3	5-189	6.89	27	
1,1-Dichloroethene	2590	25.0	"	2500	ND	104	36-142	5.47	26	
Acetone	3780	1250	"	5000	ND	75.5	10-180	11.2	32	
Methyl tert-Butyl Ether (MTBE)	2220	25.0	"	2500	ND	88.9	50-131	8.22	25	
1,1-Dichloroethane	2570	25.0	"	2500	ND	103	49-136	5.20	23	
2,2-Dichloropropane	2770	25.0	"	2500	ND	111	45-141	6.60	27	
Carbon Tetrachloride	2610	25.0	"	2500	ND	105	46-140	8.67	27	
tert-Amyl Methyl ether (TAME)	2240	25.0	"	2500	ND	89.6	60-140	9.28	25	
Benzene	2270	25.0	"	2500	ND	90.9	48-131	6.53	23	
Trichloroethene	2650	25.0	"	2500	ND	106	48-132	7.73	25	
cis-1,3-Dichloropropene	2480	25.0	"	2500	ND	99.1	48-134	7.96	24	
Toluene	2310	25.0	"	2500	ND	92.5	48-130	6.89	24	
Dibromochloromethane	2560	25.0	"	2500	ND	102	49-134	9.68	24	
Chlorobenzene	2570	25.0	"	2500	ND	103	44-134	8.07	26	
Ethylbenzene	2620	25.0	"	2500	ND	105	45-135	7.17	27	
p,m-Xylene	4750	50.0	"	5000	ND	95.0	43-135	7.23	27	
o-Xylene	2530	25.0	"	2500	ND	101	43-135	7.51	27	
Total Xylenes	7280	25.0	"	7500	ND	97.1	43-135	7.33	27	
Bromoform	2460	50.0	"	2500	ND	98.6	43-139	14.1	26	
Isopropylbenzene	2200	25.0	"	2500	ND	88.0	41-139	7.87	29	
2-Chlorotoluene	2680	25.0	"	2500	ND	107	36-137	8.51	29	
sec-Butylbenzene	2410	25.0	"	2500	ND	96.3	31-142	8.35	35	
1,2-Dichlorobenzene	2630	25.0	"	2500	ND	105	35-139	11.6	30	
Naphthalene	2340	125	"	2500	ND	93.8	18-145	15.7	34	
Surrogate: 1,2-Dichloroethane-d4	472		"	500		94.3	70-130			
Surrogate: Toluene-d8	499		"	500		99.8	70-130			
Surrogate: Bromofluorobenzene	506		"	500		101	70-130			

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Crown Quest Operating	Project Name:	Chacon Jicarilla Apache D2 BGT Closure	Reported: 11-Jun-18 16:58
PO 2221	Project Number:	07151-0022	
Farmington NM, 87499	Project Manager:	Felipe Aragon	

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
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Batch 1823003 - DRO Extraction EPA 3570

Blank (1823003-BLK1)				Prepared: 04-Jun-18 Analyzed: 05-Jun-18						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40+)	ND	50.0	"							
Surrogate: n-Nonane	57.6		"	50.0		115	50-200			
LCS (1823003-BS1)				Prepared: 04-Jun-18 Analyzed: 05-Jun-18						
Diesel Range Organics (C10-C28)	473	25.0	mg/kg	500		94.7	38-132			
Surrogate: n-Nonane	57.8		"	50.0		116	50-200			
Matrix Spike (1823003-MS1)				Source: P806001-01		Prepared: 04-Jun-18 Analyzed: 06-Jun-18				
Diesel Range Organics (C10-C28)	455	25.0	mg/kg	500	ND	91.0	38-132			
Surrogate: n-Nonane	56.6		"	50.0		113	50-200			
Matrix Spike Dup (1823003-MSD1)				Source: P806001-01		Prepared: 04-Jun-18 Analyzed: 06-Jun-18				
Diesel Range Organics (C10-C28)	473	25.0	mg/kg	500	ND	94.7	38-132	3.97	20	
Surrogate: n-Nonane	60.0		"	50.0		120	50-200			

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Crown Quest Operating PO 2221 Farmington NM, 87499	Project Name: Chacon Jicarilla Apache D2 BGT Closure Project Number: 07151-0022 Project Manager: Felipe Aragon	Reported: 11-Jun-18 16:58
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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
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Batch 1823005 - Purge and Trap EPA 5030A

Blank (1823005-BLK1)

Prepared: 04-Jun-18 Analyzed: 07-Jun-18

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1,2-Dichloroethane-d4-MS	0.508		"	0.500		102	70-130			
Surrogate: Toluene-d8-MS	0.383		"	0.500		76.5	70-130			
Surrogate: Bromofluorobenzene-MS	0.391		"	0.500		78.1	70-130			

LCS (1823005-BS2)

Prepared: 04-Jun-18 Analyzed: 07-Jun-18

Gasoline Range Organics (C6-C10)	49.4	20.0	mg/kg	50.0		98.9	70-130			
Surrogate: 1,2-Dichloroethane-d4-MS	0.480		"	0.500		96.0	70-130			
Surrogate: Toluene-d8-MS	0.427		"	0.500		85.4	70-130			
Surrogate: Bromofluorobenzene-MS	0.444		"	0.500		88.8	70-130			

Matrix Spike (1823005-MS2)

Source: P806003-01

Prepared: 04-Jun-18 Analyzed: 07-Jun-18

Gasoline Range Organics (C6-C10)	51.7	20.0	mg/kg	50.0	ND	103	70-130			
Surrogate: 1,2-Dichloroethane-d4-MS	0.514		"	0.500		103	70-130			
Surrogate: Toluene-d8-MS	0.455		"	0.500		90.9	70-130			
Surrogate: Bromofluorobenzene-MS	0.475		"	0.500		95.0	70-130			

Matrix Spike Dup (1823005-MSD2)

Source: P806003-01

Prepared: 04-Jun-18 Analyzed: 07-Jun-18

Gasoline Range Organics (C6-C10)	51.4	20.0	mg/kg	50.0	ND	103	70-130	0.653	20	
Surrogate: 1,2-Dichloroethane-d4-MS	0.493		"	0.500		98.6	70-130			
Surrogate: Toluene-d8-MS	0.425		"	0.500		85.0	70-130			
Surrogate: Bromofluorobenzene-MS	0.446		"	0.500		89.1	70-130			

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Crown Quest Operating PO 2221 Farmington NM, 87499	Project Name: Chacon Jicarilla Apache D2 BGT Closure Project Number: 07151-0022 Project Manager: Felipe Aragon	Reported: 11-Jun-18 16:58
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Total Metals by 6010 - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1823016 - Metals Solid Hotblock Digestion EPA 3050B/200.2

Blank (1823016-BLK1)

Prepared & Analyzed: 07-Jun-18

Arsenic	ND	0.50	mg/kg
Barium	ND	6.25	"
Cadmium	ND	0.25	"
Chromium	ND	0.50	"
Lead	ND	0.25	"
Selenium	ND	1.25	"
Silver	ND	0.25	"

LCS (1823016-BS1)

Prepared: 07-Jun-18 Analyzed: 08-Jun-18

Arsenic	25.1	0.50	mg/kg	25.0	100	80-120
Barium	624	6.25	"	625	99.8	80-120
Cadmium	24.7	0.25	"	25.0	98.7	80-120
Chromium	24.5	0.50	"	25.0	98.0	80-120
Lead	25.6	0.25	"	25.0	102	80-120
Selenium	25.1	1.25	"	25.0	101	80-120
Silver	2.49	0.25	"	2.50	99.4	80-120

Matrix Spike (1823016-MS1)

Source: P806003-06

Prepared: 07-Jun-18 Analyzed: 08-Jun-18

Arsenic	18.7	0.50	mg/kg	25.0	1.56	68.4	75-125	SPK1
Barium	537	6.25	"	625	86.4	72.1	75-125	SPK1
Cadmium	17.2	0.25	"	25.0	0.40	67.4	75-125	SPK1
Chromium	31.9	0.50	"	25.0	15.5	65.2	75-125	SPK1
Lead	23.1	0.25	"	25.0	7.00	64.3	75-125	SPK1
Selenium	17.2	1.25	"	25.0	ND	68.6	75-125	SPK1
Silver	1.82	0.25	"	2.50	ND	72.7	75-125	SPK1

Matrix Spike Dup (1823016-MSD1)

Source: P806003-06

Prepared: 07-Jun-18 Analyzed: 08-Jun-18

Arsenic	21.8	0.50	mg/kg	25.0	1.56	81.0	75-125	15.7	20
Barium	595	6.25	"	625	86.4	81.4	75-125	10.2	20
Cadmium	20.0	0.25	"	25.0	0.40	78.2	75-125	14.6	20
Chromium	36.3	0.50	"	25.0	15.5	83.1	75-125	13.1	20
Lead	27.4	0.25	"	25.0	7.00	81.7	75-125	17.2	20
Selenium	20.0	1.25	"	25.0	ND	80.2	75-125	15.5	20
Silver	2.05	0.25	"	2.50	ND	82.1	75-125	12.1	20

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Crown Quest Operating PO 2221 Farmington NM, 87499	Project Name: Chacon Jicarilla Apache D2 BGT Closure Project Number: 07151-0022 Project Manager: Felipe Aragon	Reported: 11-Jun-18 16:58
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Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1823009 - Anion Extraction EPA 300.0/9056A

Blank (1823009-BLK1)

Prepared & Analyzed: 05-Jun-18

Chloride	ND	20.0	mg/kg
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LCS (1823009-BS1)

Prepared & Analyzed: 05-Jun-18

Chloride	261	20.0	mg/kg	250	104	90-110
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Matrix Spike (1823009-MS1)

Source: P806006-01

Prepared & Analyzed: 05-Jun-18

Chloride	320	20.0	mg/kg	250	65.5	102	80-120
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Matrix Spike Dup (1823009-MSD1)

Source: P806006-01

Prepared & Analyzed: 05-Jun-18

Chloride	320	20.0	mg/kg	250	65.5	102	80-120	0.00937	20
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Crown Quest Operating	Project Name:	Chacon Jicarilla Apache D2 BGT Closure	Reported: 11-Jun-18 16:58
PO 2221	Project Number:	07151-0022	
Farmington NM, 87499	Project Manager:	Felipe Aragon	

Total Mercury by 7471B - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1824003 - Mercury Solid Digestion KMNO4

Blank (1824003-BLK1)				Prepared & Analyzed: 11-Jun-18						
Mercury	ND	20.0	ug/kg							
LCS (1824003-BS1)				Prepared & Analyzed: 11-Jun-18						
Mercury	161	20.0	ug/kg	160		101	80-120			
Matrix Spike (1824003-MS1)				Prepared & Analyzed: 11-Jun-18						
Mercury	172	20.0	ug/kg	160	ND	108	75-125			
Matrix Spike Dup (1824003-MSD1)				Prepared & Analyzed: 11-Jun-18						
Mercury	170	20.0	ug/kg	160	ND	106	75-125	1.02	15	

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Crown Quest Operating
PO 2221
Farmington NM, 87499

Project Name: Chacon Jicarilla Apache D2 BGT Closure
Project Number: 07151-0022
Project Manager: Felipe Aragon

Reported:
11-Jun-18 16:58

Notes and Definitions

SPK1 The spike recovery is outside of quality control limits.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

** Methods marked with ** are non-accredited methods.

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Bill of Lading

GENERATOR Ruddy Production-

POINT OF ORIGIN Chacon J.E. Apache D#2

TRANSPORTER B.B.Vac

DATE 6.18.18 JOB # 07151-0024

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

[illegible]

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

Generator Onsite Contact	Phone
--------------------------	-------

Signatures required prior to distribution of the legal document.

DISTRIBUTION: **White** - Company Records, **Yellow** - Billing, **Pink** - Customer, **Goldenrod** - LF Copy

BOL# 60811

CHLORIDE TESTING / PAINT FILTER TESTING

DATE 6-18-18 TIME 1327 Attach test strin here

CUSTOMER Ruddy Production

SITE Chaco Jiz Apache D#2

DRIVER BZA

SAMPLE Soil ✓ Straight ✓ With Dirt

CHLORIDE TEST -284 mg/Kg

ACCEPTED YES ✓ NO

PAINT FILTER TEST Time started 1327 Time completed 1340

PASS YES ✓ NO

SAMPLER/ANALYST Garry Robinson





Bill of Lading

MANIFEST # **60749**
GENERATOR Roddy Production
POINT OF ORIGIN Chacon Jic Apache D#2
TRANSPORTER Lindrith Backhoe -
DATE 6-11-18 JOB # 07151-0024

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT					TRANSPORTING COMPANY			
	DESTINATION	MATERIAL	GRID	YDS	BBLS	TKT#	TRK#	TIME	DRIVER SIGNATURE
1	LF II-5	con't soil	Q33	14	-	-	69	950	LHP
2	" "	" "	Q33	14	-	-	69	1253	LHP
				<u>28</u>					
RESULTS		LANDFARM EMPLOYEE EL <u>Gary Robinson</u>				NOTES			
< 290	CHLORIDE TEST								
	PAINT FILTER TEST	1	Certification of above receipt & placement						

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

Generator Onsite Contact _____ Phone _____

Signatures required prior to distribution of the legal document. DISTRIBUTION: White - Company Records, Yellow - Billing, Pink - Customer, Goldenrod - LF Copy

BOL# 60749

CHLORIDE TESTING / PAINT FILTER TESTING

DATE 6-11-18 TIME 950 Attach test strip hereCUSTOMER Raddy ProductionSITE Choeon Jie Apache D #2DRIVER [Signature]SAMPLE Soil Straight — With Dirt —CHLORIDE TEST 290 mg/KgACCEPTED YES 1 NO —PAINT FILTER TEST Time started 950 Time completed 958PASS YES 1 NO —SAMPLER/ANALYST Gary Robinson



Bill of Lading

MANIFEST # **60750**
GENERATOR Roddy Production
POINT OF ORIGIN Chicoan Jic Apache D#2
TRANSPORTER B.B. Voc
DATE 6-11-18 JOB # 07151-0024

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT					TRANSPORTING COMPANY				
	DESTINATION	MATERIAL	GRID	YDS	BBLS	TKT#	TRK#	TIME	DRIVER SIGNATURE	
1	LFII-5	Coal + Soil	P33	20	-	3601	BB17	1033	<i>[Signature]</i>	
2	LFII-5	" "	P33	20	-		BB12	1107	<i>[Signature]</i>	
3	"	" "	P33	20	-	3601	BB17	1350	<i>[Signature]</i>	
4	"	" "	P33	20	-		BB12	1650	<i>[Signature]</i>	
				<u>80</u>						
RESULTS		LANDFARM EMPLOYEE <u>Gary Robinson</u> EL				NOTES				
<u><210</u>	CHLORIDE TEST									<u>1</u>
	PAINT FILTER TEST									<u>1</u>
					Certification of above receipt & placement					

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

Generator Onsite Contact _____ Phone _____

Signatures required prior to distribution of the legal document.

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BOL# 60750

CHLORIDE TESTING / PAINT FILTER TESTING

DATE 6-11-18 TIME 1033

Attach test s

CUSTOMER Roddy ProductionSITE Chacon Jic Apache D#2DRIVER Mike BrownSAMPLE Soil Straight ☒ With Dirt ☐CHLORIDE TEST 290 mg/KgACCEPTED YES ☒ NO ☐PAINT FILTER TEST Time started 1033 Time completed 1045PASS YES ☒ NO ☐SAMPLER/ANALYST Gary Robinson



Bill of Lading

MANIFEST # **60759**
GENERATOR Roddy Production
POINT OF ORIGIN Chaco Jic Apache D#2
TRANSPORTER B4B Vac
DATE 6-12-18 JOB # 07151-0024

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT					TRANSPORTING COMPANY			
	DESTINATION	MATERIAL	GRID	YDS	BBLS	TKT#	TRK#	TIME	DRIVER SIGNATURE
1	LFII-5	Cont Soil	P33	20	-	3602	BB17	824	<i>[Signature]</i>
2	"	" "	P33	20	-		BB736	915	<i>[Signature]</i>
3	"	" "	P33	20	-	3602	BB17	1123	<i>[Signature]</i>
4	"	" "	P33	20	-		BB736	1413	<i>[Signature]</i>
				<u>80</u>					
RESULTS		LANDFARM EMPLOYEE	<i>Gary Robinson</i> EL			NOTES			
<290	CHLORIDE TEST								
	PAINT FILTER TEST	1	Certification of above receipt & placement						

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

Generator Onsite Contact _____ Phone _____

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BOL# 60759

CHLORIDE TESTING / PAINT FILTER TESTING

DATE 6-12-18 TIME 824 Attach test strip hereCUSTOMER Roddy ProductionSITE Chacon T12 Apache D#2DRIVER Mr BensonSAMPLE Soil Straight ☒ With Dirt ☐CHLORIDE TEST -290 mg/KgACCEPTED YES ☒ NO ☐PAINT FILTER TEST Time started 824 Time completed 835PASS YES ☒ NO ☐SAMPLER/ANALYST Gary Robinson



Bill of Lading

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

MANIFEST # 60761

GENERATOR Roddy Productions

POINT OF ORIGIN Chelon Jic'Apuahled 2

TRANSPORTER Lindrith Backhoe

DATE 6-12-18 JOB # 07151-0024

[illegible]

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

Generator Onsite Contact	Phone
--------------------------	-------

Signatures required prior to distribution of the legal document.

DISTRIBUTION: **White** - Company Records, **Yellow** - Billing, **Pink** - Customer, **Goldenrod** - LF Copy

BOL# 60761

CHLORIDE TESTING / PAINT FILTER TESTING

DATE 6-12-18 TIME 903Attach 1  hereCUSTOMER Reddy ProductionSITE Chacon Jic. ApacheDRIVER ShirleySAMPLE Soil Straight ✓ With Dirt CHLORIDE TEST 290 mg/KgACCEPTED YES ✓ NO PAINT FILTER TEST Time started 903 Time completed 912PASS YES ✓ NO SAMPLER/ANALYST Gary Robinson























































