

September 20, 2017

Sent via email to Olivia.Yu@state.nm.us

NMOCD
Olivia Yu, Environmental Specialist
1625 N. French Drive
Hobbs, NM 88240

Dear Ms. Yu,

Southwest Royalties, Inc. respectfully submits the enclosed Revised Release Characterization Report and Remediation Work Plan for release site 1RP-4691. Per your email dated August 25, 2017 to Southwest Royalties' contractor, Republic Backhoe Service LLC, NMOCD considers the delineation for 1RP-4691 complete. The Revised Report included here includes a revised proposed remediation work plan.

Should you have any questions or concerns, please contact me at 832-427-7652 or jonathan.pennington@nbleenergy.com.

Sincerely,

Jonathan Pennington
Environmental Coordinator

APPROVED

By Olivia Yu at 1:52 pm, Oct 03, 2017

CC: Eric Garcia, Republic Backhoe Service LLC

:Enclosure

1. Laboratory analyses of bottom and sidewall confirmation samples at the proposed 2 ft. excavation depth must demonstrate chlorides are within permissible levels of 600 mg/kg. Otherwise, proceed to excavate to the next foot in depth or laterally extend the excavated area.
2. Confirmation sample locations must be no greater than 50 ft. apart.
3. Laboratory analyses of a minimum of 2 bottom and 2 sidewall samples must indicate that BTEX and TPH extended (GRO, DRO, MRO) are within permissible levels.
4. Provide a scaled map with confirmation sample locations marked, excavation area outlined, and depth of excavation annotated.

REPUBLIC BACKHOE SERVICE LLC

Olivia Yu
NMOCD District I
1625 N. French Dr.
Hobbs. NM 88240

July 16, 2017 – Original Submission Date
September 20, 2017 – Revised Submission Date

Dear Olivia Yu,

Subject: Revised Release Characterization Report and Remediation Work Plan

Location: Southwest Royalties, Inc.
Eilliams Battery
1RP-4691

Southwest Royalties, Inc. has contracted Republic Backhoe Service LLC ("Republic") to perform site assessment and remediation services at the above referenced location. The results of our spill summary and proposed remediation activities consist of the following.

Incident Date

May 5, 2017

Background Information

The Eilliams Battery is located approximately nine (9) miles west of Buckeye, New Mexico. The legal location for the Battery is Unit A Section 34 Township 17 South and Range 33 East in Lea County, New Mexico. The spill site lies 550 feet west of the Eilliams Battery location with the GPS Coordinates as follows: Latitude: 32.795354 North Longitude: -103.646118 West. See Site Map attached in Appendix I.

Republic Backhoe Service LLC

47 E. Dickens

Lovington, NM 88260

Phone Number: (575) 631-0131

Email Ericgarcia62@hotmail.com

Watercourses in the area are dry except for infrequent flows in response to major precipitation events. The soil in this area is made up of Kimbrough-Lea loamy soil. As per the New Mexico Bureau of Geology and Minerals Resources, the local surface is comprised of 5" to 24" loamy soil with hard caliche below the soil. Groundwater in the area is estimated to be at a depth of 153 feet. See Appendix III for groundwater data.

The ranking score for this site is 0 based on the following:

| | |
|---|---|
| Depth to ground water: 153' (50'-99') | 0 |
| Wellhead Protection Area: > 1000' | 0 |
| Distance to Surface Water Body: > 1000' | 0 |

Incident Description

On May 5, 2017, the pumper spotted a leak from the 3" poly produced water transfer line from the Eilliams Battery to the disposal well. The pump automatically turned off on low pressure which minimized the release. A crew was called out to repair the line. The produced water quickly soaked into the ground and there was not enough time to call a vacuum truck to recover any of the release. A total of 25 barrels of produced water was released. See Appendix II for the Spill Site Measurements. On May 5, 2017, immediate notice was given by phone to Olivia Yu at NMOCD Hobbs, NM and to Jim Amos Carlsbad, NM. On May 8, 2017 the C-141 was emailed to Olivia Yu. The spill occurred on deeded property belonging to Darr Angell (contacted 6/28/2017).

Actions Taken

On 6/30/2017, Republic began to delineate the Eilliams Battery Spill Site. Republic collected a total of eight surface samples at the site. The backhoe was unable to penetrate the hard caliche; therefore, Republic postponed further work until a drill rig was contracted. The surface samples were preserved on ice and taken to Cardinal Labs in Hobbs, NM. On 07/06/2017, Republic continued to delineate the site at the Eilliams Battery Spill Site. Big Dog Drill Inc was contracted to drill the bore holes. A total of four bore holes were drilled from inside of the spill area. Samples were collected at 5', 10', 15' and 20'. Also, Republic drilled one bore hole outside the spill area for background samples at depths of 5' and 15'. All soil samples were collected by Republic Backhoe

Service LLC personnel wearing clean nitrile gloves. The soil samples were placed in laboratory provided sample containers and transported to Cardinal Labs in Hobbs, NM for analysis. The chlorides samples were analyzed per Method SM4500C1-B.

Laboratory Results

See Appendix IV for Site sample points.

| Sample Date | Date Analyzed | Sample ID | Depth (feet) | Chlorides (mg/kg) |
|-------------|---------------|-----------|--------------|-------------------|
| 06/30/2017 | 07/03/2017 | E15 | 0 | 20000 |
| 06/30/2017 | 07/03/2017 | E25 | 0 | 19600 |
| 06/30/2017 | 07/03/2017 | E35 | 0 | 23600 |
| 06/30/2017 | 07/03/2017 | E45 | 0 | 30400 |
| 06/30/2017 | 07/03/2017 | E55 | 0 | 26800 |
| 06/30/2017 | 07/03/2017 | E65 | 0 | 18000 |
| 06/30/2017 | 07/03/2017 | E75 | 0 | 18400 |
| 06/30/2017 | 07/03/2017 | E85 | 0 | 16800 |
| 07/06/2017 | 07/07/2017 | E2-5 | 5 | 464 |
| 07/06/2017 | 07/07/2017 | E2-10 | 10 | 144 |
| 07/06/2017 | 07/07/2017 | E2-15 | 15 | 208 |
| 07/06/2017 | 07/07/2017 | E2-20 | 20 | 368 |
| 07/06/2017 | 07/07/2017 | E3-5 | 5 | 400 |
| 07/06/2017 | 07/07/2017 | E3-10 | 10 | 208 |
| 07/06/2017 | 07/07/2017 | E3-15 | 15 | 144 |
| 07/06/2017 | 07/07/2017 | E3-20 | 20 | 96 |
| 07/06/2017 | 07/07/2017 | E5-5 | 5 | 896 |
| 07/06/2017 | 07/07/2017 | E5-10 | 10 | 96 |
| 07/06/2017 | 07/07/2017 | E5-15 | 15 | 128 |
| 07/06/2017 | 07/07/2017 | E5-20 | 20 | 240 |
| 07/06/2017 | 07/07/2017 | E8-5 | 5 | 128 |
| 07/06/2017 | 07/07/2017 | E8-15 | 15 | 64 |
| 07/06/2017 | 07/07/2017 | B 5 | 5 | 80 |
| 07/06/2017 | 07/07/2017 | B 10 | 10 | 80 |

Proposal

The release poses little threat to groundwater contamination in the area. The depth to ground water in the area is greater than 150'. Also, the quantity of the release limits the contamination to 5 feet. The goal of remediating the site is to establish vegetation growth. We respectfully ask for the following:

The delineated site will be excavated to a depth of 2 feet bgs, and field samples will be collected at 2 feet bgs. If a field sample result is above the permissible chloride level of 600 mg/kg, the area adjacent to the exceeding sample location will be excavated to a depth of 3 feet bgs and field samples will be collected at 3 feet bgs. If a field sample result is above the permissible chloride level of 600 mg/kg, the area adjacent to the exceeding sample location will be excavated to a depth of 4 feet bgs and field samples will be collected at 4 feet bgs. Samples will be taken to Cardinal Labs in Hobbs, NM for confirmation to determine if the field test results are below the permissible chloride levels of 600 mg/kg. Once the samples are confirmed by the lab the area will be backfilled. If the 4 feet lab sample results are below the permissible chloride levels of 600 mg/kg, then the area will be backfilled without a liner. If a lab sample result is above the permissible chloride level of 600 mg/kg at 4 feet bgs, a liner will be installed at 4 feet bgs in the area adjacent to the exceeding sample location, then the area will be backfilled.

NMOCD will be notified within 24 hours of all sampling.

The excavated material will be loaded onto belly dumps and hauled to R360, an NMOCD approved disposal facility.

The backfill material will be sourced from Darr Angell's pit.

Then the area will be seeded with Warm Season SSR Grass Seed Mix 350. Please see the Revegetation and weed management plan below.

Revegetation and Noxious Weed Management Plans

Seed Mixture: Warm Season SSR Grass Seed Mix 350 (See Appendix V)

Seeding Rate/ acre: 20 lbs/acre

Timing of Dispersal: Mid to late August 2017

Method of Dispersal: First, the area will be disc. Second, the seed will be mechanically broadcasted. Third, will run the disc over the area to cover the seed. Finally, to best ensure seed germination success the area will be watered after seeding. Photos will be taken of the seed mixture bags, and of all seeding activities.

Follow up Monitoring Plan: We intend to monitor the area in late summer (before the fall season). We will evaluate the growth of the area to determine if reseeding will be necessary the following spring. We will also monitor for the area for noxious weeds. The area is small enough to rid the weeds mechanically.

Noxious Weeds Control

Republic Backhoe Service LLC takes noxious weed control very serious. All equipment and trucks are inspected before entering the pasture area. For examples truck tires are inspected for seeds between the thread of the tires, and equipment (disc harrow and backhoe) is cleaned off before entering the site. The area will be monitored for the following noxious weeds (but not limited to):

- Jointed Goatgrass
- Hoary Cress
- Cheat Grass
- African Rue
- Yellow Starthistle
- Malta Starthistle

- Purple Starthistle
- Common Teasel
- Camelthorn
- Russian Knapweed

IF you have any questions please call (575) 631-1031.

Eric Garcia
Republic Backhoe Services LLC

Appendix I

Site Map



Noble Permian LLC
Elliama's Battery Transfer Line Spill
Lea County, NM
GPS 32.795354N, -103.646118W

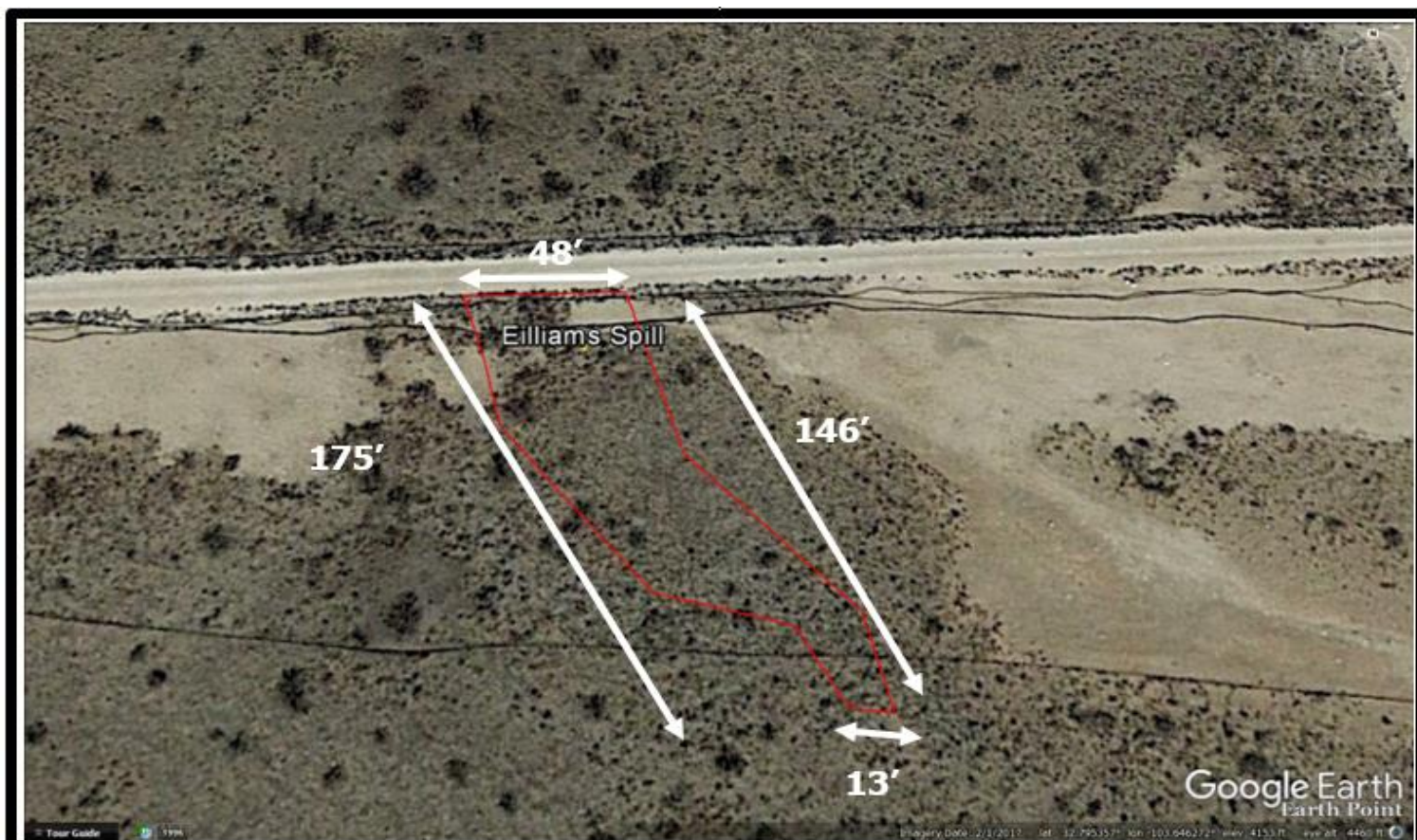
**Republic Backhoe
 Service LLC**
47 E. Dickens Rd
Lovington, NM
88260

Appendix I

Site Map

Appendix II

Site Measurements



Noble Permian LLC
Eilliams Battery Transfer Line Spill
Lea County, NM
GPS 32.795354N, -103.646118W

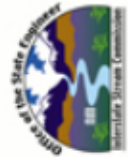
**Republic Backhoe
Service LLC**
47 E. Dickens Rd
Lovington, NM
88260

Appendix II

Sample Points

Appendix III

Ground Water 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 | | | | | | | | | | | | | | | | | |
|-------------------------|------|-----------|--------|---------|----|---|-----|-----|-----|--------|----------|---|-------------------------|------|----------|-------|--------------|
| POD Number | Code | Sub-basin | County | Q Q Q Q | | | | Tws | Rng | X | Y | Distance | Depth | Well | Depth | Water | Water Column |
| | | | | 64 | 16 | 4 | Sec | | | | | | | | | | |
| L_04363 | L | LE | LE | 1 | 2 | 3 | 35 | 17S | 33E | 627634 | 3628855* |  | 1003 | 226 | 160 | 66 | |
| L_05055 | L | LE | LE | 3 | 3 | 4 | 35 | 17S | 33E | 628042 | 3628259* |  | 1691 | 233 | 150 | 83 | |
| L_05096 | L | LE | LE | 3 | 3 | 4 | 35 | 17S | 33E | 628042 | 3628259* |  | 1691 | 233 | 150 | 83 | |
| | | | | | | | | | | | | | Average Depth to Water: | | 153 feet | | |
| | | | | | | | | | | | | | Minimum Depth: | | 150 feet | | |
| | | | | | | | | | | | | | Maximum Depth: | | 160 feet | | |

Record Count: 3

UTMNAD83 Radius Search (in meters):

Easting (X): 626787.36

Northing (Y): 3629394.11

Radius: 2000

*UTM location was derived from PLSS - see Help

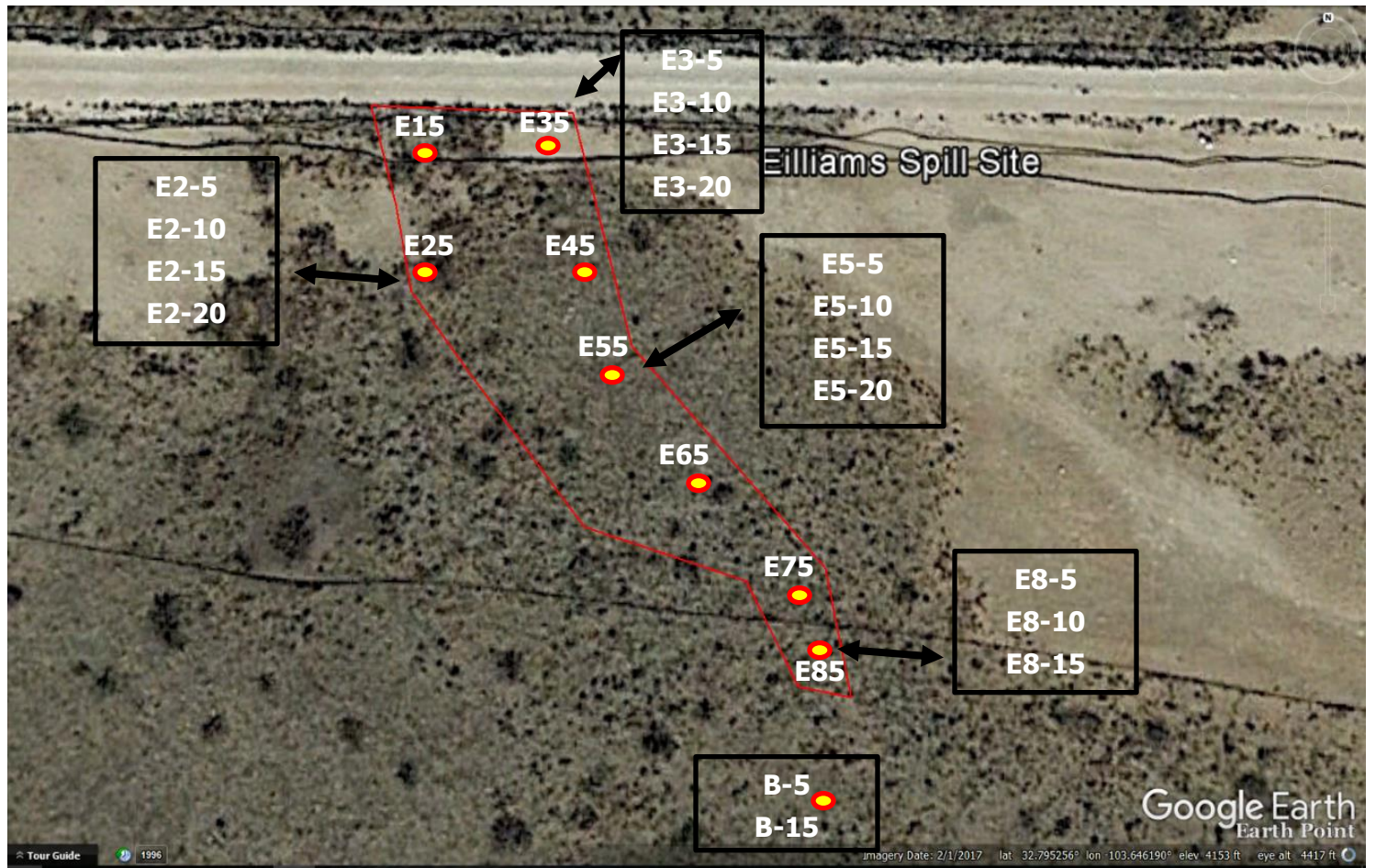
The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

7/17/17 5:40 PM

WATER COLUMN/ AVERAGE DEPTH TO
WATER

Appendix IV

Sample Points



Noble Permian LLC
Eilliams Battery Transfer Line Spill
Lea County, NM
GPS 32.795354N, -103.646118W

Republic Backhoe
 Service LLC
 47 E. Dickens Rd
 Lovington, NM
 88260

Appendix IV

Sample Points

Appendix V

Seed Mixture

Bamert Seed Company Inc.

1897 CR 1818 Muleshoe, TX 79347

(800) 262-9892

Permit # TX00905

Warm Season SSR Grass Seed Mix 350 Bulk in 25# bags

Sales # SO-60263

| Description | Pure Seed | Germ | Dormant | Hard Seed | Origin |
|--|----------------------|------------------------|------------------|-----------|--------|
| Bluestem, Little "Cimarron" (Schizachyrium scoparium) | 4.32% | 82.00% | 14.00% | 0.00% | TX |
| Bluestem, Yellow "WW Spar" (Andropogon ischaemum) | 7.22% | 90.00% | 5.00% | 0.00% | |
| Buffalograss, "Texoka" Primed KNO3 (Bouteloua dactyloides) | 5.86% | 96.00% | 0.00% | 0.00% | TX |
| Dropseed, Sand (Sporobolus cryptandrus) | 5.49% | 31.00% | 63.00% | 0.00% | |
| Fescue, Tall "KY 31" (Festuca arundinacea Schreb.) | 1.98% | 85.00% | 0.00% | 0.00% | OR |
| Grama, Blue (Bouteloua gracilis) | 19.49% | 94.00% | 0.00% | 0.00% | NM |
| Grama, Sideoats (Bouteloua curtipendula) | 22.06% | 46.00% | 39.00% | 0.00% | KS |
| Kleingrass, "Selection 75" (Panicum coloratum) | 7.82% | 95.00% | 0.00% | 0.00% | TX |
| Switchgrass, "Blackwell" (Panicum virgatum) | 7.82% | 21.00% | 72.00% | 0.00% | TX |
| Purity: 82.07% | Inert Matter: 17.76% | Other Crop Seed: 0.09% | Weed Seed: 0.09% | | |

Appendix VIII
C-141

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

| | | | |
|-----------------|--|---------------|--------------|
| Name of Company | Noble Permian L.L.C | Contact | Dave Dunlap |
| Address | 1001 Noble Energy Way Houston Tx 77070 | Telephone No. | 575-390-2062 |
| Facility Name | Williams Fed Battery | Facility Type | Battery |
| Surface Owner | BLM | Mineral Owner | BLM |
| | | Lease No. | |

LOCATION OF RELEASE

| | | | | | | | | |
|-------------|---------|----------|-------|---------------|------------------|---------------|----------------|--------|
| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
| A | 34 | 17S | 33E | | | | | Lea |

Latitude 32.795393 Longitude -103.6460350

NATURE OF RELEASE

| | | | | | |
|---|---|---|--|----------------------------|----------|
| Type of Release | Produced Water | Volume of Release | 25 | Volume Recovered | 0 |
| Source of Release | 3" Poly Transfer Line | Date and Hour of Occurrence | 5/5/17 | Date and Hour of Discovery | 5/5/2017 |
| Was Immediate Notice Given? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required | If YES, To Whom? | Olivia Yu NMOCD Hobbs, NM Jim Amos BLM | | |
| By Whom? | Eric Garcia, Noble Permian LLC Contractor | Date and Hour | 5/5/2017 @ 2:00 PM | | |
| Was a Watercourse Reached? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If YES, Volume Impacting the Watercourse. | N/A | | |
| If a Watercourse was Impacted, Describe Fully.* | N/A | | | | |

RECEIVED
By Olivia Yu at 8:40 am, May 10, 2017

Describe Cause of Problem and Remedial Action Taken.*



The pumper spotted a leak from the 3" poly P/W transfer line. The pump automatically turned off on low pressure which minimized the release. A crew was called out to repair the leak. The produced water quickly soaked into the ground and there wasn't enough time to call a vacuum truck to recover any of the release.

Describe Area Affected and Cleanup Action Taken.*

The release occurred approx. 500 feet west of the battery at GPS 32.795393 N -103.6460350 W.

The area is approx. 6,800 Square feet. Noble Permian will have the site evaluated and will present a remediation work plan to NMOCD and BLM for approval prior to any remediation work.

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: DAVE DUNLAP | Approved by:  | |
| Title: Prod Foreman | Approval Date: 5/10/2017 | Expiration Date: |
| E-mail Address: ddunlap@chaptawilliams.com | Conditions of Approval: see attached directive | Attached <input checked="" type="checkbox"/> |
| Date: 5-8-17 | Phone: 575 390 2062 | |

Appendix IX
Cardinal Lab Results



PHONE (575) 393-2326 * 101 E. MARLAND * HOBBS, NM 88240

July 03, 2017

ERIC GARCIA

REPUBLIC BACKHOE SERVICES

47 E. DICKENS RD

LOVINGTON, NM 88260

RE: EILLIAMS BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 06/30/17 16:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

| | |
|------------------|------------------------------|
| Method EPA 552.2 | Halacetic Acids (HAA-5) |
| Method EPA 524.2 | Total Trihalomethanes (TTHM) |
| Method EPA 524.4 | Regulated VOCs (V1, V2, V3) |

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

REPUBLIC BACKHOE SERVICES
ERIC GARCIA
47 E. DICKENS RD
LOVINGTON NM, 88260
Fax To: NONE

| | | | |
|-------------------|------------------|---------------------|----------------|
| Received: | 06/30/2017 | Sampling Date: | 06/30/2017 |
| Reported: | 07/03/2017 | Sampling Type: | Soil |
| Project Name: | EILLIAMS BATTERY | Sampling Condition: | ** (See Notes) |
| Project Number: | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | NOBLE | | |

Sample ID: E 15 (H701733-01)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 20000 | 16.0 | 07/03/2017 | ND | 448 | 112 | 400 | 0.00 | QM-07 |

Sample ID: E 25 (H701733-02)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 19600 | 16.0 | 07/03/2017 | ND | 448 | 112 | 400 | 0.00 | |

Sample ID: E 35 (H701733-03)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 23600 | 16.0 | 07/03/2017 | ND | 448 | 112 | 400 | 0.00 | |

Sample ID: E 45 (H701733-04)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 30400 | 16.0 | 07/03/2017 | ND | 448 | 112 | 400 | 0.00 | |

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

REPUBLIC BACKHOE SERVICES
ERIC GARCIA
47 E. DICKENS RD
LOVINGTON NM, 88260
Fax To: NONE

| | | | |
|-------------------|-----------------|---------------------|----------------|
| Received: | 06/30/2017 | Sampling Date: | 06/30/2017 |
| Reported: | 07/03/2017 | Sampling Type: | Soil |
| Project Name: | ELLIAMS BATTERY | Sampling Condition: | ** (See Notes) |
| Project Number: | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | NOBLE | | |

Sample ID: E 55 (H701733-05)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 26800 | 16.0 | 07/03/2017 | ND | 448 | 112 | 400 | 0.00 | |

Sample ID: E 65 (H701733-06)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 18000 | 16.0 | 07/03/2017 | ND | 448 | 112 | 400 | 0.00 | |

Sample ID: E 75 (H701733-07)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 18400 | 16.0 | 07/03/2017 | ND | 448 | 112 | 400 | 0.00 | | |

Sample ID: E 85 (H701733-08)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 16800 | 16.0 | 07/03/2017 | ND | 448 | 112 | 400 | 0.00 | |

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 east Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name: **Republic Backhoe Service**
Project Manager: **Eric Garcia**
Address: **47 E Dickens Rd**
City: **Lovington**
Phone #: **575-391-0131** State: **NM** Zip: **88240**
Project #: **C** Fax #: **575-396-1782**
Project Name: **Williams Battery** Project Owner: **Noble**
Project Location:
Sample Name: **Eric Garcia**

P.O. #: **BLIT TO**
Company: **Noble**
Attn:
Address:
City:
State:
Zip:
Phone #:
Fax #:

FOR LAB USE ONLY

| Lab I.D. | Sample I.D. | (G)RAB OR (C)OMP | # CONTAINERS | MATRIX | | | | | | PRESERV | SAMPLING | |
|----------|-------------|------------------|--------------|-------------|------------|------|-----|--------|-------|---------|----------|--|
| | | | | GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER | | | |
| #701733 | E15 | | | | | | | | | | | |
| 1 | E85 | | | | | | | | | | | |
| 2 | E35 | | | | | | | | | | | |
| 3 | E45 | | | | | | | | | | | |
| 4 | E55 | | | | | | | | | | | |
| 5 | E65 | | | | | | | | | | | |
| 6 | E75 | | | | | | | | | | | |
| 7 | E85 | | | | | | | | | | | |

| DATE | TIME | ANALYSIS REQUEST |
|------|------|------------------|
| 6/30 | 8:30 | Chloride |
| 6/30 | 8:35 | |
| 6/30 | 8:40 | |
| 6/30 | 8:45 | |
| 6/30 | 8:50 | |
| 6/30 | 9:00 | |
| 6/30 | 9:10 | |
| 6/30 | 9:15 | |

Relinquished By: **Juanita Barba** Date: **6-30-17** Received By: **Juanita Barba** Date: **6-30-17**

Delivered By: (Circle One) **UPS** **399** **72-48**

Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



PHONE (575) 393-2326 * 101 E. MARLAND * HOBBS, NM 88240

July 10, 2017

ERIC GARCIA

REPUBLIC BACKHOE SERVICES

47 E. DICKENS RD

LOVINGTON, NM 88260

RE: EILLIAMS

Enclosed are the results of analyses for samples received by the laboratory on 07/07/17 15:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

| | |
|------------------|------------------------------|
| Method EPA 552.2 | Halocetic Acids (HAA-5) |
| Method EPA 524.2 | Total Trihalomethanes (TTHM) |
| Method EPA 524.4 | Regulated VOCs (V1, V2, V3) |

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

REPUBLIC BACKHOE SERVICES
ERIC GARCIA
47 E. DICKENS RD
LOVINGTON NM, 88260
Fax To: NONE

| | | | |
|-------------------|------------|---------------------|----------------|
| Received: | 07/07/2017 | Sampling Date: | 07/06/2017 |
| Reported: | 07/10/2017 | Sampling Type: | Soil |
| Project Name: | EILLIAMS | Sampling Condition: | ** (See Notes) |
| Project Number: | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | NOBLE | | |

Sample ID: E3- 5 (H701762-01)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 400 | 16.0 | 07/10/2017 | ND | 384 | 96.0 | 400 | 18.9 | |

Sample ID: E3- 10 (H701762-02)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 208 | 16.0 | 07/10/2017 | ND | 384 | 96.0 | 400 | 18.9 | |

Sample ID: E3- 15 (H701762-03)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 144 | 16.0 | 07/10/2017 | ND | 384 | 96.0 | 400 | 18.9 | |

Sample ID: E3- 20 (H701762-04)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 96.0 | 16.0 | 07/10/2017 | ND | 384 | 96.0 | 400 | 18.9 | |

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 * 101 E. MARLAND * HOBBS, NM 88240

Analytical Results For:

REPUBLIC BACKHOE SERVICES
ERIC GARCIA
47 E. DICKENS RD
LOVINGTON NM, 88260
Fax To: NONE

Received: 07/07/2017
Reported: 07/10/2017
Project Name: ELLIAMS
Project Number: NONE GIVEN
Project Location: NOBLE

Sampling Date: 07/06/2017
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: E2- 5 (H701762-05)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 464 | 16.0 | 07/10/2017 | ND | 384 | 96.0 | 400 | 18.9 | |

Sample ID: E2- 10 (H701762-06)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 144 | 16.0 | 07/10/2017 | ND | 448 | 112 | 400 | 3.64 | |

Sample ID: E2- 15 (H701762-07)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 208 | 16.0 | 07/10/2017 | ND | 448 | 112 | 400 | 3.64 | |

Sample ID: E2- 20 (H701762-08)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 368 | 16.0 | 07/10/2017 | ND | 448 | 112 | 400 | 3.64 | |

Sample ID: E5- 5 (H701762-09)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 896 | 16.0 | 07/10/2017 | ND | 448 | 112 | 400 | 3.64 | |

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

REPUBLIC BACKHOE SERVICES
ERIC GARCIA
47 E. DICKENS RD
LOVINGTON NM, 88260
Fax To: NONE

Received: 07/07/2017
Reported: 07/10/2017
Project Name: EILLIAMS
Project Number: NONE GIVEN
Project Location: NOBLE

Sampling Date: 07/06/2017
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: E5- 10 (H701762-10)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 96.0 | 16.0 | 07/10/2017 | ND | 448 | 112 | 400 | 3.64 | |

Sample ID: E5- 15 (H701762-11)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 128 | 16.0 | 07/10/2017 | ND | 448 | 112 | 400 | 3.64 | |

Sample ID: E5- 20 (H701762-12)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 240 | 16.0 | 07/10/2017 | ND | 448 | 112 | 400 | 3.64 | |

Sample ID: E8- 5 (H701762-13)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 128 | 16.0 | 07/10/2017 | ND | 448 | 112 | 400 | 3.64 | |

Sample ID: E8- 15 (H701762-14)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 64.0 | 16.0 | 07/10/2017 | ND | 448 | 112 | 400 | 3.64 | |

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

REPUBLIC BACKHOE SERVICES
ERIC GARCIA
47 E. DICKENS RD
LOVINGTON NM, 88260
Fax To: NONE

Received: 07/07/2017
Reported: 07/10/2017
Project Name: ELLIAMS
Project Number: NONE GIVEN
Project Location: NOBLE

Sampling Date: 07/06/2017
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: B 5 (H701762-15)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 80.0 | 16.0 | 07/10/2017 | ND | 448 | 112 | 400 | 3.64 | |

Sample ID: B 15 (H701762-16)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AC | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 80.0 | 16.0 | 07/10/2017 | ND | 448 | 112 | 400 | 3.64 | |

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

