



2350 W Marland Blvd Hobbs, NM 88240

Termination Report

November 28, 2016

Re: Apache State SWD # 3
API# 30-015-38978
Case 2RP-2923

To: Mike Bratcher

Environmental Specialist-New Mexico Oil Conservation Division Energy, Minerals and
Natural Resources Department 811 S. First St. Artesia, NM 88210

Beginning on May 11, 2015 through August, 2015 a total of 2,595 yards of contaminated soil was washed using 9,310 barrels of fresh water. The contaminated water however could not be used in oilfield activities due to fine soil particles in the water. All contaminated water was disposed of at a NMOCD approved SWD. All the washed material was placed into 7 cells and 5 point composite samples of each cell were taken to a commercial laboratory for analysis. Cells 2, 4, and 5 laboratory results showed elevated chlorides over the 1,000 chloride threshold.

An economic decision was made to stop soil washing and beginning on 9/14/2015 the remaining contaminated soil was hauled to a NMOCD approved facility and backhauled clean imported top soil. Some of the clean imported soil was blended with Cells 2, 4, and 5 and resampled and submitted to a commercial laboratory for analysis in which the results came back less than 1,000 ppm chlorides. The staging area south in the pasture was also excavated due to cross contamination to chloride values less than 1,000 ppm.

The area inside the facility was scraped down to levels less than 1,000 chlorides except above the liner which the highest concentration were removed to a depth that would not jeopardize the integrity of the buried liner. The area around the source of the release was delineated to a depth of 10 feet and ceased delineation when clay was encounter and the 9 foot sample was taken to a commercial laboratory for analysis for chloride. The area around the pipeline was excavated were possible to a depth of the natural occurring clay barrier.

Beginning on December 3, 2015 the pasture was backfilled utilizing washed top soil and clean imported top soil and contoured to the surrounding area. The facility was backfilled with clean imported caliche and caliche was also utilized to build berms around the facility.

Enclosed: Amended Path Forward, Approvals of Path Forward, Map, Laboratory analysis, Photos, and final C-141.

Apache has completed the approved amended path forward and respectfully request termination of release.

Submitted by;

Bruce Baker

Environmental Technician

larry.baker@apachecorp.com

Cell# 432-631-6982

Off# 575-393-7106

From: Jacob Kamplain
To: "Bratcher, Mike, EMNRD"; "Patterson, Heather, EMNRD"
Cc: "Baker, Larry"; "Hack Conder"; "Laura Flores"; "Lara Weinheimer"; "Catherine Ursanic"
Subject: Apache State SWD #3
Date: Thursday, March 26, 2015 9:47:28 AM
Attachments: Appendix.pdf

Apache State SWD #3

UL/E sec. 30 T17S R31E

Path Forward

Apache Corporation (Apache) has retained Rice Environmental Consulting and Safety (RECS) to address potential environmental concerns at the above-referenced site.

Background and Previous Work

The site is located approximately 3.9 miles east of Loco Hills, New Mexico at UL/E sec. 30 T17S R31E. The site is in an area of no known groundwater.

RECS personnel were on site beginning on March 4th, 2015, to assess the site. The release covered 24,937 square feet of lease pad and 20,289 square feet of pasture land (Figure 1). The wet material was scraped up from the battery pad and taken to a spoil pile. Six surface samples from the release were taken and field tested for chlorides and organic vapors. All samples returned elevated field chloride readings and low organic vapor readings. Four verticals were installed throughout the release to determine the depth of contamination. Vertical 1 was installed to 6 inches bgs, and the field test of the sample returned low chloride and organic vapor readings. Vertical 2 was installed to 2 ft bgs and was halted when a liner was discovered at 2.5 ft bgs. The verticals in the pasture were sampled every 6 inches until field chloride readings indicated that the bottom sample from each vertical would return laboratory chloride readings below 250 mg/kg. The bottom samples from these two verticals were taken to a commercial laboratory for analyses. The analyses returned laboratory chloride readings below 250 mg/kg (Appendix A).

The release area in the pasture to the west was scraped down to 1 ft bgs, and the pasture area to south was scraped down to 1.5 ft bgs (Figure 2). Once the scrapes were completed, wall samples and a 5 point bottom composite sample of the west area and a 3 point bottom composite of the south area were taken and field tested for chlorides and organic vapors. The samples were then taken to a commercial laboratory for analyses. All samples returned laboratory chloride reading near or below 1,000 mg/kg, except for West Wall 4 located at the battery fence, which returned a chloride value of 1,680 mg/kg.

Path Forward

A large spoil pile remains at the site. Once the scrapes in the pasture have been approval to be

backfilled, the spoil pile will be washed. The contaminated water will be evaluated for use in future oilfield activities. A sample of the washed soil will be taken to a commercial laboratory to confirm that the chloride reading is near or below 1,000 mg/kg. The cleaned soil will be used to backfill the scrapes in the pasture. The remaining area in the pasture will then be scraped down to 1 ft bgs. Once the scrape is completed, bottom grab samples and wall samples from the scrape will be taken and field tested for chlorides and organic vapors. If the field data indicates that the grab samples will not achieve chloride readings below 1,000 mg/kg, the scrape will be deepened until field testing indicates that all samples from the bottom and wall samples will return chloride values below 1,000 mg/kg. The grab samples will then be taken to a commercial laboratory to confirm that the chloride readings are below 1,000 mg/kg.

The release area in the lease pad is partially located over the facility liner. In areas where the liner exists, the pad will be scraped down 6 inches. In areas where the liner does not exist, the pad will be scraped down as possible. There are known buried electrical lines in the area and scraping in this area will be completed so as not to endanger facility operations or field personnel. Once these scrapes are completed, the soil will be washed and backfilled into the scrapes.

Photo documentation of the initial release can be found in Appendix B.

Jacob Kamplain

Project Leader

419 W. Cain

Hobbs, NM 88240

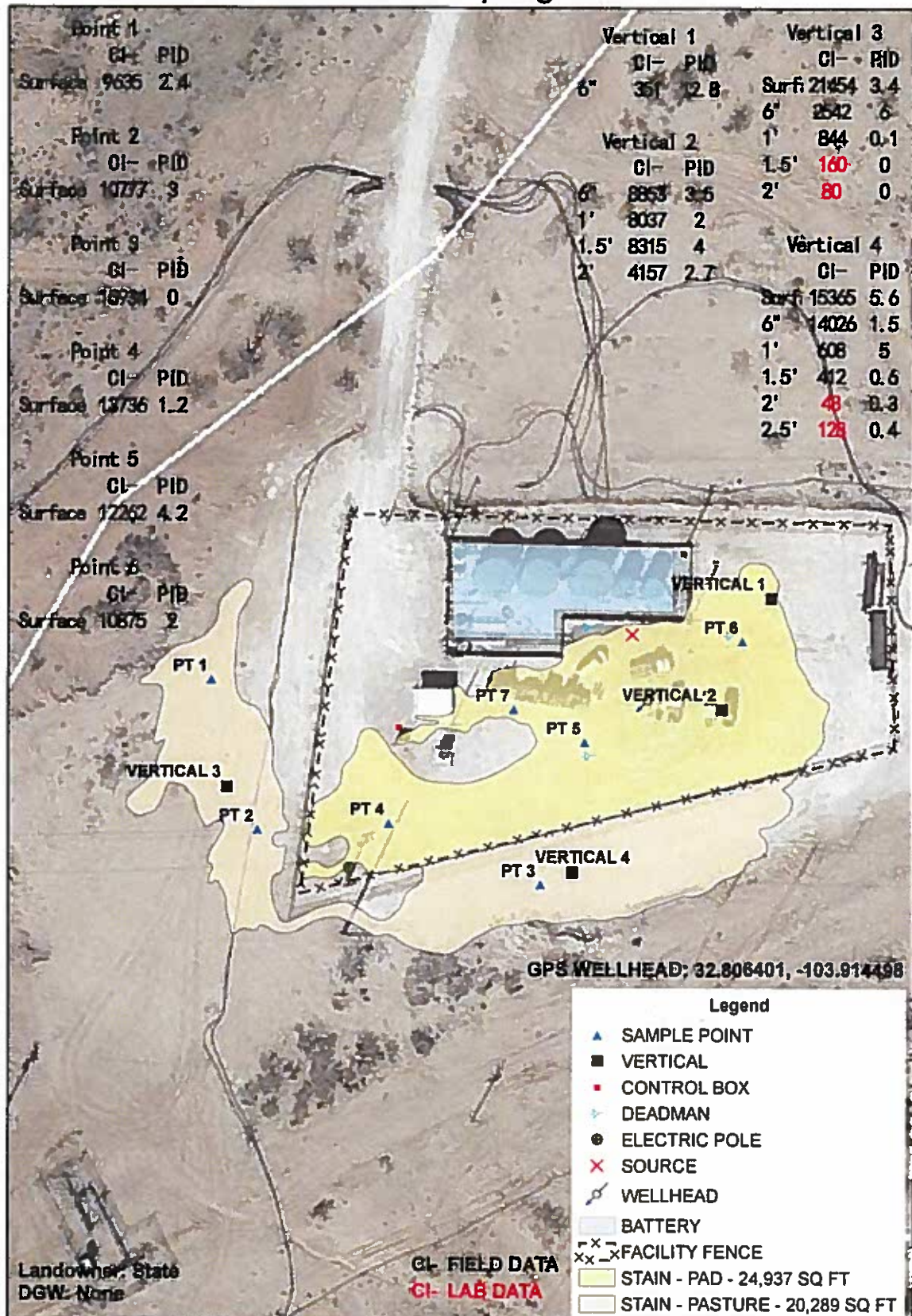
(575)942-8221



Figures

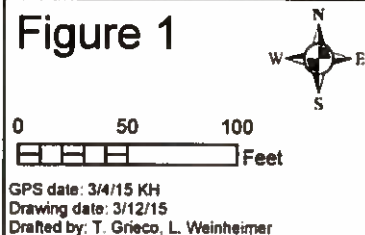
RICE Environmental Consulting and Safety (RECS)
P.O. Box 2948, Hobbs, NM 88241
Phone 575.393.2967

Initial Sampling Data

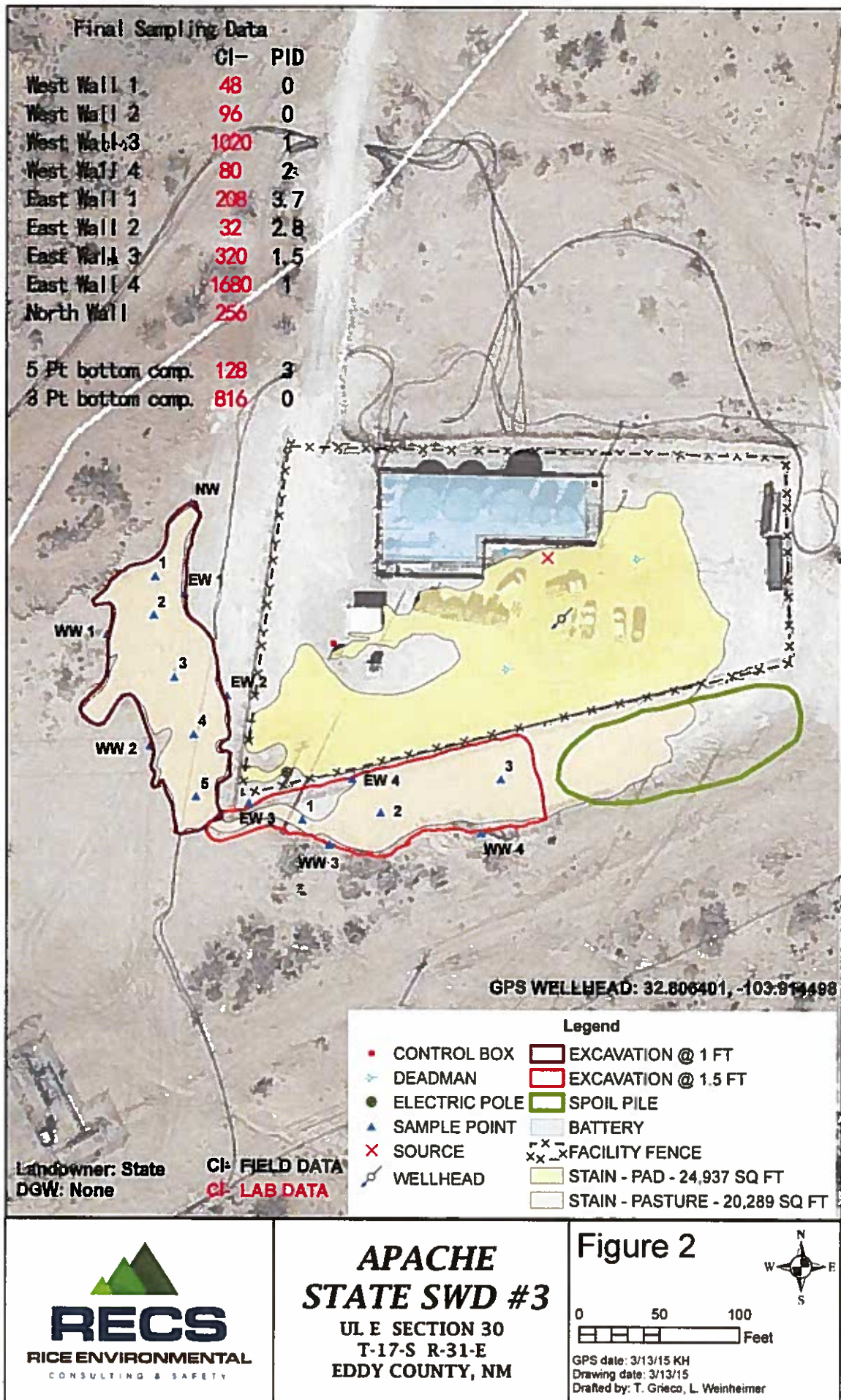


**APACHE
STATE SWD #3**
UL E SECTION 30
T-17-S R-31-E
EDDY COUNTY, NM

Figure 1



Excavation Data





Appendix A

Laboratory Analyses

RICE Environmental Consulting and Safety (RECS)
P.O. Box 2948 Hobbs, NM 88241
Phone 575.393.2967



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

March 23, 2015

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: STATE SWD #3

Enclosed are the results of analyses for samples received by the laboratory on 03/20/15 16:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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	Haloacetic 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,

Caley D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
BRUCE BAKER
2350 W. MARLAND BLVD.
HOBBS NM, 88240
Fax To: (575) 393-2432

Received: 03/20/2015
Reported: 03/23/2015
Project Name: STATE SWD #3
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 03/05/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Celey D. Keene

Sample ID: VERT 3 @ 1.5 FT (H500765-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	03/23/2015	ND	416	104	400	3.77	

Sample ID: VERT 3 @ 2 FT (H500765-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	03/23/2015	ND	416	104	400	3.77		

Sample ID: VERT 4 @ 2 FT (H500765-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/23/2015	ND	416	104	400	3.77	

Sample ID: VERT 4 @ 2.5 FT (H500765-04)

Chloride, SM4500CI-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	03/23/2015	ND	416	104	400	3.77	

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

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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

March 20, 2015

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: STATE SWD #3

Enclosed are the results of analyses for samples received by the laboratory on 03/18/15 10:12.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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/ga/lab_accred_certif.html.

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

Method EPA 552.2	Haloacetic 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,

A handwritten signature in black ink that reads "Caley D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Caley D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
BRUCE BAKER
2350 W. MARLAND BLVD.
HOBBS NM, 88240
Fax To: (575) 393-2432

Received: 03/18/2015
Reported: 03/20/2015
Project Name: STATE SWD #3
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 03/13/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: WEST WALL 1 (H500733-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/19/2015	ND	416	104	400	0.00	

Sample ID: WEST WALL 2 (H500733-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	03/19/2015	ND	416	104	400	0.00	

Sample ID: WEST WALL 3 (H500733-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1020	16.0	03/19/2015	ND	416	104	400	0.00	

Sample ID: WEST WALL 4 (H500733-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/19/2015	ND	416	104	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



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

Analytical Results For:

APACHE CORP - HOBBS
BRUCE BAKER
2350 W. MARLAND BLVD.
HOBBS NM, 88240
Fax To: (575) 393-2432

Received: 03/18/2015
Reported: 03/20/2015
Project Name: STATE SWD #3
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 03/13/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: EAST WALL 1 (H500733-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	03/19/2015	ND	416	104	400	0.00		

Sample ID: EAST WALL 2 (H500733-06)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/19/2015	ND	416	104	400	0.00		

Sample ID: EAST WALL 3 (H500733-07)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	03/19/2015	ND	416	104	400	0.00	

Sample ID: EAST WALL 4 (H500733-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1680	16.0	03/19/2015	ND	416	104	400	0.00	

Sample ID: 5 PT. BOTTOM COMP (H500733-09)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	03/19/2015	ND	416	104	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:

APACHE CORP - HOBBS
BRUCE BAKER
2350 W. MARLAND BLVD.
HOBBS NM, 88240
Fax To: (575) 393-2432

Received: 03/18/2015
Reported: 03/20/2015
Project Name: STATE SWD #3
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 03/13/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: 3 PT. BOTTOM COMP (H500733-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	816	16.0	03/19/2015	ND	416	104	400	0.00	

Sample ID: NORTH WALL (H500733-11)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	03/19/2015	ND	416	104	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


Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603
(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

[illegible]

* Cardinal cannot accept verbal changes. Please fax written changes to 505-393-4766

CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603
(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

[illegible]

*** Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476**

#54



Appendix B

Photo Document

RICE Environmental Consulting and Safety (RECS)
P.O. Box 2948 Hobbs, NM 88241
Phone 575.393.2967

Apache State SWD #3
Unit Letter E, Section 30, T17S, R31E



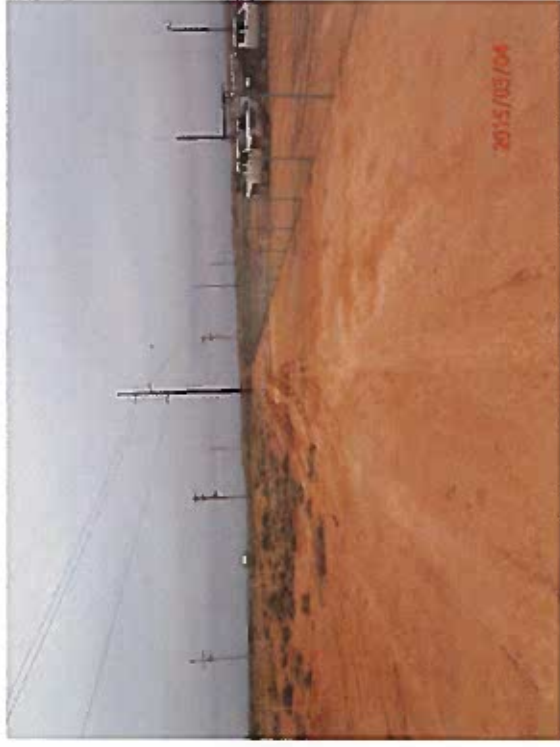
Initial release area, facing west

3/4/15



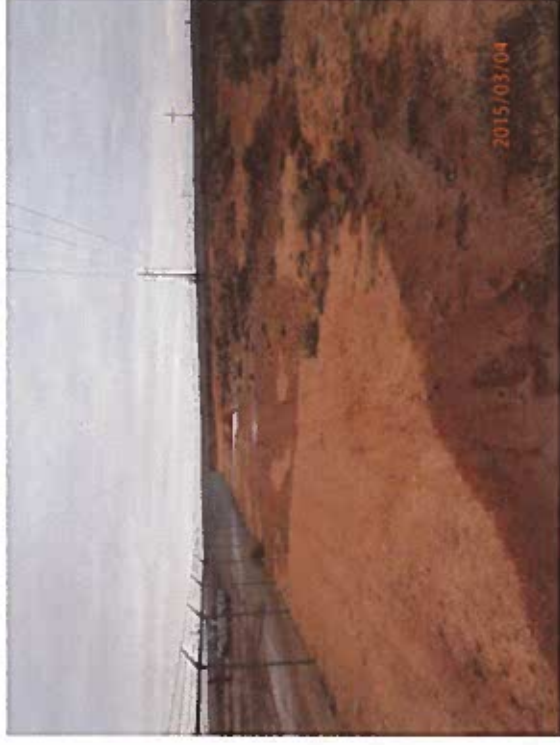
Initial release area, facing northwest

3/4/15



Initial release area, facing west

3/4/15



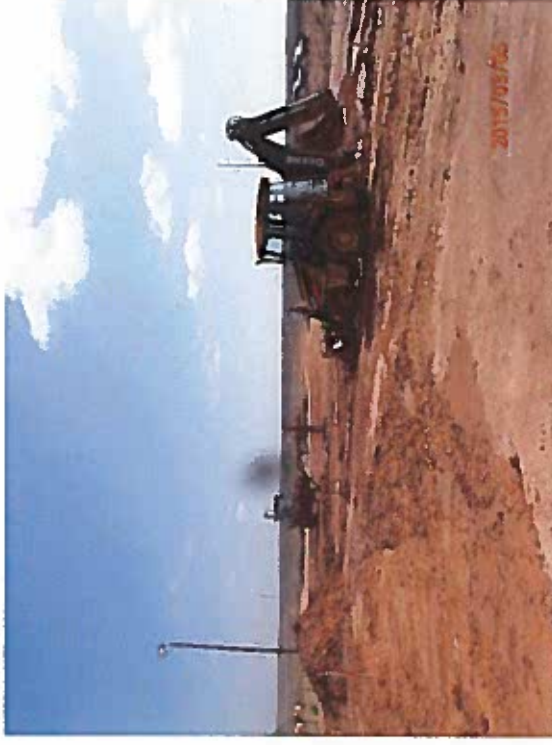
Initial release area, facing east

3/4/15



Initial release area, facing northwest

3/4/15



Scraping wet material, facing southeast

3/5/15



Moving contaminated soil to spoil pile, facing southeast

3/5/15



Facility liner discovered in Vertical 2

3/5/15



Scraping west of battery, facing east 3/9/15

From: Bratcher, Mike, EMNRD
To: Jacob Kamplain; Patterson, Heather, EMNRD
Cc: "Baker, Larry"; "Hack Conder"; "Laura Flores"; "Lara Weinheimer"; "Catherine Ursanic"
Subject: RE: Apache State SWD #3
Date: Wednesday, April 08, 2015 12:49:15 PM

RE: Apache Corp. * Apache St SWD 3 * 30-015-38978 * E-30-17s-31e * Eddy County, NM
NMOCD Tracking Number: **2RP-2923** * Date of release: 3/4/15

Greetings,

Your proposal for remediation of the above referenced release, by means of a soil washing technique, is approved subject to the following conditions of approval, and notations.

Due to the proximity of this SWD to an adjacent playa lake (less than 1000'), chloride level in soils that are to remain at the site are to be 1000 mg/kg or less. This will include material on and off of the facility pad. OCD does request confirmation/delineation samples be obtained in the area identified as PT 4, as well as an investigation, to the extent practicable, on how much of the pad may have a liner installed in the sub-surface. During a field inspection of the site, it was noted that a liner was evident in the area excavated to repair the line. This portion of that liner was breached during repair operations. Impacted areas in the facility location may require deeper excavation than the proposed 6".

In the proposal, WW 4 is referenced as being at the facility fence. The diagram shows this point to be on the south side of the scrape/excavation, away from the fence. Horizontal delineation, as well as vertical, will be required in all impacted areas.

Disposition of fluids and/or solids resulting from the soil washing operation will require OCD review and approval.

Please notify the District 2 office prior to commencement of operations.

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

If you have any questions or concerns, and for notification, please contact me and/or Heather Patterson. Heather.Patterson@state.nm.us

Mike Bratcher
NMOCD District 2
811 S. First Street
Artesia, NM 88210
O: 575-748-1283 X108
C: 575-626-0857
F: 575-748-9720

From: Jacob Kamplain [mailto:jkamplain@rice-ecs.com]
Sent: Thursday, March 26, 2015 9:47 AM
To: Bratcher, Mike, EMNRD; Patterson, Heather, EMNRD
Cc: 'Baker, Larry'; 'Hack Conder'; 'Laura Flores'; 'Lara Weinheimer'; 'Catherine Ursanic'
Subject: Apache State SWD #3

Apache State SWD #3

UL/E sec. 30 T17S R31E

Path Forward

Apache Corporation (Apache) has retained Rice Environmental Consulting and Safety (RECS) to address potential environmental concerns at the above-referenced site.

Background and Previous Work

The site is located approximately 3.9 miles east of Loco Hills, New Mexico at UL/E sec. 30 T17S R31E. The site is in an area of no known groundwater.

RECS personnel were on site beginning on March 4th, 2015, to assess the site. The release covered 24,937 square feet of lease pad and 20,289 square feet of pasture land (Figure 1). The wet material was scraped up from the battery pad and taken to a spoil pile. Six surface samples from the release were taken and field tested for chlorides and organic vapors. All samples returned elevated field chloride readings and low organic vapor readings. Four verticals were installed throughout the release to determine the depth of contamination. Vertical 1 was installed to 6 inches bgs, and the field test of the sample returned low chloride and organic vapor readings. Vertical 2 was installed to 2 ft bgs and was halted when a liner was discovered at 2.5 ft bgs. The verticals in the pasture were sampled every 6 inches until field chloride readings indicated that the bottom sample from each vertical would returned laboratory chloride readings below 250 mg/kg. The bottom samples from these two verticals were taken to a commercial laboratory for analyses. The analyses returned laboratory chloride readings below 250 mg/kg (Appendix A).

The release area in the pasture to the west was scraped down to 1 ft bgs, and the pasture area to south was scraped down to 1.5 ft bgs (Figure 2). Once the scrapes were completed, wall samples and a 5 point bottom composite sample of the west area and a 3 point bottom composite of the south area were taken and field tested for chlorides and organic vapors. The samples were then taken to a commercial laboratory for analyses. All samples returned laboratory chloride reading near or below 1,000 mg/kg, except for West Wall 4 located at the battery fence, which returned a chloride value of 1,680 mg/kg.

Path Forward

A large spoil pile remains at the site. Once the scrapes in the pasture have been approved to be backfilled, the spoil pile will be washed. The contaminated water will be evaluated for use in future oilfield activities. A sample of the washed soil will be taken to a commercial laboratory to confirm that the chloride reading is near or below 1,000 mg/kg. The cleaned soil will be used to backfill the scrapes in the pasture. The remaining area in the pasture will then be scraped down to 1 ft bgs. Once the scrape is completed, bottom grab samples and wall samples from the scrape will be taken and field tested for chlorides and organic vapors. If the field data indicates that the grab samples will not achieve chloride readings below 1,000 mg/kg, the scrape will be deepened until field testing indicates that all samples from the bottom and wall samples will return chloride values below 1,000 mg/kg. The grab samples will then be taken to a commercial laboratory to confirm that the chloride readings are below 1,000 mg/kg.

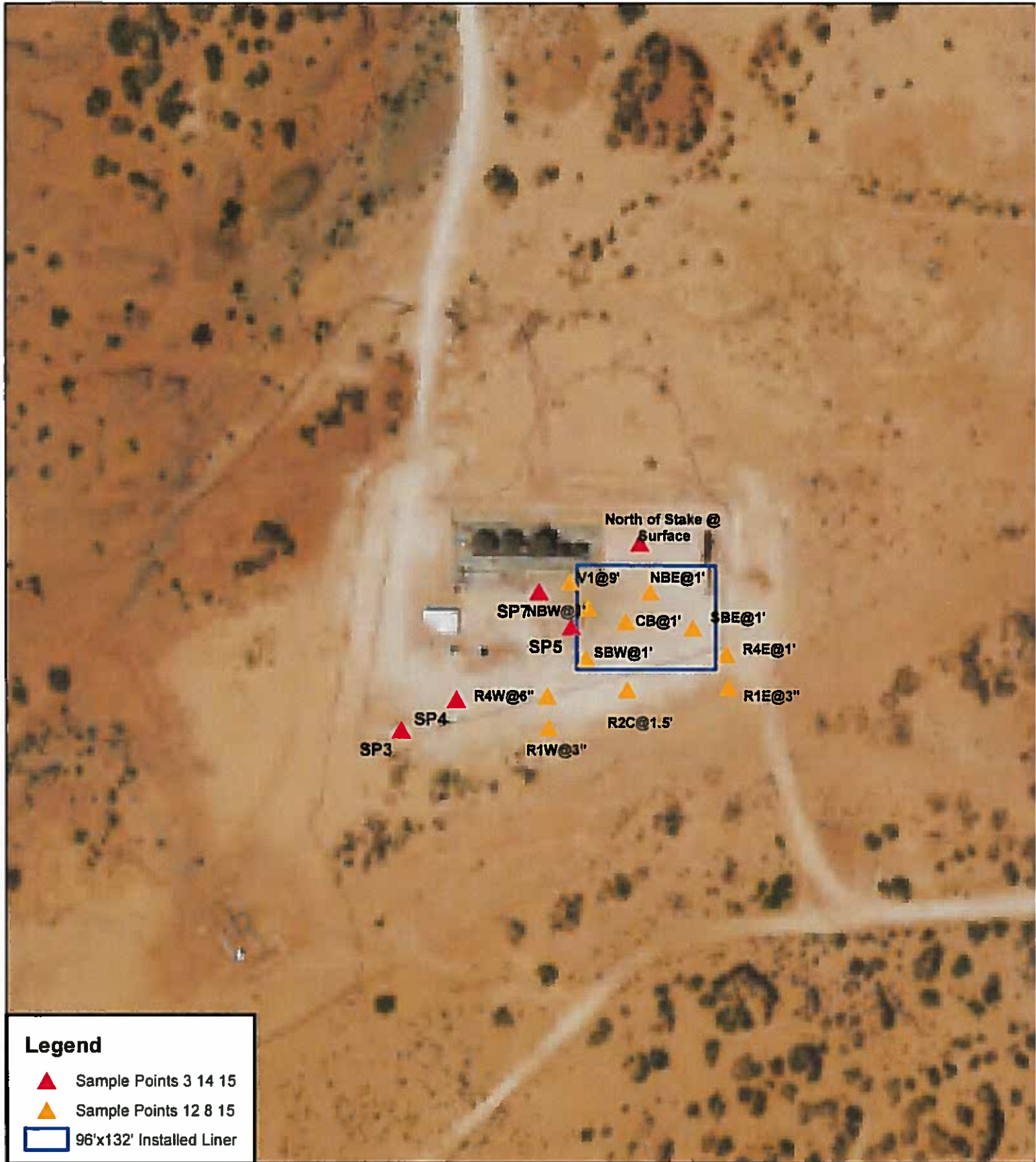
The release area in the lease pad is partially located over the facility liner. In areas where the liner exists, the pad will be scraped down 6 inches. In areas where the liner does not exist, the pad will be scraped down as possible. There are known buried electrical lines in the area and scraping in this area will be completed so as not to endanger facility operations or field personnel. Once these scrapes are completed, the soil will be washed and backfilled into the scrapes.

Photo documentation of the initial release can be found in Appendix B.

Jacob Kamplain

Project Leader
419 W. Cain
Hobbs, NM 88240
(575)942-8221

Site Diagram



Legend

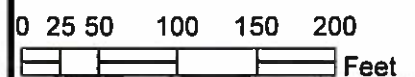
- ▲ Sample Points 3 14 15
- ▲ Sample Points 12 8 15
- 96'x132' Installed Liner



Apache
State SWD #3
Unit Letter E, Sec. 30, T17S, R31E
Eddy County, NM
NMOCD Case #: 2R-2923



Mapped: 03/14/2016 CF
 Drafted by: C. Flores





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

December 11, 2015

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: STATE SWD #3

Enclosed are the results of analyses for samples received by the laboratory on 12/04/15 15:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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	Haloacetic 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:

APACHE CORP - HOBBS
BRUCE BAKER
2350 W. MARLAND BLVD.
HOBBS NM, 88240
Fax To: (575) 393-2432

Received: 12/04/2015
Reported: 12/11/2015
Project Name: STATE SWD #3
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 12/03/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: VERTICAL 1 @ 9' (H503171-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	672	16.0	12/08/2015	ND	400	100	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

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <u>Apache</u>		P.O. #:		BILL TO												ANALYSIS REQUEST																									
Project Manager: <u>Bruce Baker</u>		Company:																																							
Address:		City:		State:		Zip:		Attn:																																	
Phone #:		Fax #:		Address:																																					
Project #:		Project Owner:		City:		State:		Zip:																																	
Project Name: <u>Apache</u>		Phone #:																																							
Project Location: <u>Shale Sand #3</u>		Fax #:																																							
Sampler Name: <u>Ants Fines</u>																																									
FOR LAB USE ONLY																																									
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME													
#503171		Vertical 1 @ 9'		G-1		1		✓												✓						12-3-2015 @ 3:10pm		X		Chloride											



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

March 18, 2016

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: STATE SWD #3

Enclosed are the results of analyses for samples received by the laboratory on 03/15/16 8:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. 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/ga/lab_accred_certif.html.

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

Method EPA 552.2	Haloacetic 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,

A handwritten signature in black ink that reads "Coley D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
BRUCE BAKER
2350 W. MARLAND BLVD.
HOBBS NM, 88240
Fax To: (575) 393-2432

Received: 03/15/2016
Reported: 03/18/2016
Project Name: STATE SWD #3
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 03/14/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SAMPLE PT. 4 @ SURFACE (H600568-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	03/18/2016	ND	400	100	400	0.00	

Sample ID: SAMPLE PT. 5 @ SURFACE (H600568-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	976	16.0	03/18/2016	ND	400	100	400	0.00	

Sample ID: SAMPLE PT. 7 @ SURFACE (H600568-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1060	16.0	03/18/2016	ND	400	100	400	0.00	

Sample ID: NORTH OF STAKE @ SURFACE (H600568-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	992	16.0	03/18/2016	ND	400	100	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:

APACHE CORP - HOBBS
BRUCE BAKER
2350 W. MARLAND BLVD.
HOBBS NM, 88240
Fax To: (575) 393-2432

Received:	03/15/2016	Sampling Date:	03/14/2016
Reported:	03/18/2016	Sampling Type:	Soil
Project Name:	STATE SWD #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: NORTH BOTTOM WEST @ 1' (H600568-05)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1140	16.0	03/18/2016	ND	400	100	400	0.00	

Sample ID: SOUTH BOTTOM WEST @ 1' (H600568-06)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	03/18/2016	ND	400	100	400	0.00	

Sample ID: NORTH BOTTOM EAST @ 1' (H600568-07)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	03/18/2016	ND	400	100	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 services. 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

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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



Page 5 of 5

↑ Cardinal cannot accept verbal changes. Please fax written changes to (576) 356-2326
#1211



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

August 26, 2015

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: STATE SWD #3

Enclosed are the results of analyses for samples received by the laboratory on 08/20/15 8:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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	Haloacetic 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:

APACHE CORP - HOBBS
BRUCE BAKER
2350 W. MARLAND BLVD.
HOBBS NM, 88240
Fax To: (575) 393-2432

Received: 08/20/2015
Reported: 08/26/2015
Project Name: STATE SWD #3
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/19/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: ROW 1 EAST @ 3" (H502184-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	08/21/2015	ND	432	108	400	7.69	

Sample ID: ROW 1 WEST @ 3" (H502184-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	08/21/2015	ND	432	108	400	7.69	

Sample ID: ROW 2 CENTER @ 1.5' (H502184-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/21/2015	ND	432	108	400	7.69	

Sample ID: ROW 4 EAST @ 1' (H502184-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	08/21/2015	ND	432	108	400	7.69	

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:

APACHE CORP - HOBBS
BRUCE BAKER
2350 W. MARLAND BLVD.
HOBBS NM, 88240
Fax To: (575) 393-2432

Received:	08/20/2015	Sampling Date:	08/19/2015
Reported:	08/26/2015	Sampling Type:	Soil
Project Name:	STATE SWD #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: ROW 4 WEST @ 6" (H502184-05)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	08/21/2015	ND	432	108	400	7.69	

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.

Ceiley D. Keene

Ceiley D. Keene, Lab Director/Quality Manager

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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



CARDINAL
Laboratories

101 East Maryland, Hobbs, NM 88240
(505) 393-3336 FAX (505) 393-3337

(575) 393-2326 FAX (575) 393-2478

Company Name: Alachua

Project manager: Bruce Baker

Address:

City:

State:

Zip: _____

110105

Fax:

Product No.

Project Owner:

Project Location: Shale Creek II

State: Zip:

Sampler Name: Chris Flores

FOR L&S USE ONLY

下置式:

Lab 1.D:

Sample I.D.

4502184

Row 7 East @ 3"

Row 7 West @ 3"

Run 2 Center @ 1.5'

Row 7 East @ 1'

Don't waste it

[illegible]

1000

[illegible]

Category	Item	Value
Total

Total

including those for employees and any other costs whatsoever in using Comstock as being for business.

Good By:

8-20-21

1

Thing:

→: (orange line)

Other:

cannot accept verbal changes. Please

ANALYSIS REQUEST

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 5 of 5



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

September 04, 2015

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: STATE SWD #3

Enclosed are the results of analyses for samples received by the laboratory on 09/03/15 15:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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/ga/lab_accred_certif.html.

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

Method EPA 552.2	Haloacetic 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

Analytical Results For:

 APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	09/03/2015	Sampling Date:	08/27/2015
Reported:	09/04/2015	Sampling Type:	Soil
Project Name:	STATE SWD #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: CELL 1 (H502344-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/04/2015	ND	416	104	400	3.92	

Sample ID: CELL 2 (H502344-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1330	16.0	09/04/2015	ND	416	104	400	3.92	

Sample ID: CELL 3 (H502344-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	09/04/2015	ND	416	104	400	3.92	

Sample ID: CELL 4 (H502344-04)

Chloride, SM4500CI-B			mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2160	16.0	09/04/2015	ND	416	104	400	3.92		

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:

APACHE CORP - HOBBS
BRUCE BAKER
2350 W. MARLAND BLVD.
HOBBS NM, 88240
Fax To: (575) 393-2432

Received: 09/03/2015
Reported: 09/04/2015
Project Name: STATE SWD #3
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/27/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: CELL 5 (H502344-05)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1660	16.0	09/04/2015	ND	416	104	400	3.92	

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

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <u>Preco Petco</u>		P.O. #:		BILL TO												ANALYSIS REQUEST																											
Project Manager: <u>Preco Petco</u>		Company:																																									
Address:		City:		State:		Zip:		Attn:		Address:		City:		State:		Zip:																											
Phone #:		Fax #:		Project Owner:		City:		State:		Zip:		Phone #:		Fax #:																													
Project Name:		Project Location:		Sample Name:		Sample Location:		Sample Name:		Sample Location:		Sample Name:		Sample Location:																													
Sample Name:		Sample Location:		Sample Name:		Sample Location:		Sample Name:		Sample Location:		Sample Name:		Sample Location:																													
FOR LAB USE ONLY		Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME													
H502344		1		CELL 1		1		1		1		1		1		1		1		1		1		1		1		4-27-8 9:10		1													
2		CELL 2		2		1		1		1		1		1		1		1		1		1		1		1		4-27-8 9:20		1													
3		CELL 3		3		1		1		1		1		1		1		1		1		1		1		1		4-27-8 9:35		1													
4		CELL 4		4		1		1		1		1		1		1		1		1		1		1		1		4-27-8 10:30		1													
5		CELL 5		5		1		1		1		1		1		1		1		1		1		1		1		4-27-8 11:00		1													
REMARKS:		REMARKS:		REMARKS:		REMARKS:		REMARKS:		REMARKS:		REMARKS:		REMARKS:		REMARKS:		REMARKS:		REMARKS:		REMARKS:		REMARKS:		REMARKS:		REMARKS:		REMARKS:													
Retained By: <u>Preco Petco</u>		Retained By: <u>Preco Petco</u>		Retained By: <u>Preco Petco</u>		Retained By: <u>Preco Petco</u>		Retained By: <u>Preco Petco</u>		Retained By: <u>Preco Petco</u>		Retained By: <u>Preco Petco</u>		Retained By: <u>Preco Petco</u>		Retained By: <u>Preco Petco</u>		Retained By: <u>Preco Petco</u>		Retained By: <u>Preco Petco</u>		Retained By: <u>Preco Petco</u>		Retained By: <u>Preco Petco</u>		Retained By: <u>Preco Petco</u>		Retained By: <u>Preco Petco</u>		Retained By: <u>Preco Petco</u>													
Redeemed By: <u>Preco Petco</u>		Redeemed By: <u>Preco Petco</u>		Redeemed By: <u>Preco Petco</u>		Redeemed By: <u>Preco Petco</u>		Redeemed By: <u>Preco Petco</u>		Redeemed By: <u>Preco Petco</u>		Redeemed By: <u>Preco Petco</u>		Redeemed By: <u>Preco Petco</u>		Redeemed By: <u>Preco Petco</u>		Redeemed By: <u>Preco Petco</u>		Redeemed By: <u>Preco Petco</u>		Redeemed By: <u>Preco Petco</u>		Redeemed By: <u>Preco Petco</u>		Redeemed By: <u>Preco Petco</u>		Redeemed By: <u>Preco Petco</u>		Redeemed By: <u>Preco Petco</u>													
Delivered By: (Circle One)		Delivered By: (Circle One)		Delivered By: (Circle One)		Delivered By: (Circle One)		Delivered By: (Circle One)		Delivered By: (Circle One)		Delivered By: (Circle One)		Delivered By: (Circle One)		Delivered By: (Circle One)		Delivered By: (Circle One)		Delivered By: (Circle One)		Delivered By: (Circle One)		Delivered By: (Circle One)		Delivered By: (Circle One)		Delivered By: (Circle One)		Delivered By: (Circle One)													
Sampler - UPS - Bus - Other:		Sampler - UPS - Bus - Other:		Sampler - UPS - Bus - Other:		Sampler - UPS - Bus - Other:		Sampler - UPS - Bus - Other:		Sampler - UPS - Bus - Other:		Sampler - UPS - Bus - Other:		Sampler - UPS - Bus - Other:		Sampler - UPS - Bus - Other:		Sampler - UPS - Bus - Other:		Sampler - UPS - Bus - Other:		Sampler - UPS - Bus - Other:		Sampler - UPS - Bus - Other:		Sampler - UPS - Bus - Other:		Sampler - UPS - Bus - Other:		Sampler - UPS - Bus - Other:													



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

September 14, 2015

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: STATE SWD #3

Enclosed are the results of analyses for samples received by the laboratory on 09/10/15 8:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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/ga/lab_accred_certif.html.

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

Method EPA 552.2	Haloacetic 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:

APACHE CORP - HOBBS
BRUCE BAKER
2350 W. MARLAND BLVD.
HOBBS NM, 88240
Fax To: (575) 393-2432

Received: 09/10/2015
Reported: 09/14/2015
Project Name: STATE SWD #3
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 09/09/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: CELL 6 (H502385-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	09/14/2015	ND	400	100	400	3.92	

Sample ID: CELL 7 (H502385-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/14/2015	ND	400	100	400	3.92	

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

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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



101 East Merland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603
(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

† Cardinal cannot accept verbal changes. Please fax written changes to 505-385-2476



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

September 18, 2015

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: STATE SWD #3

Enclosed are the results of analyses for samples received by the laboratory on 09/17/15 16:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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	Haloacetic 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,

Caley D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS
BRUCE BAKER
2350 W. MARLAND BLVD.
HOBBS NM, 88240
Fax To: (575) 393-2432

Received:	09/17/2015	Sampling Date:	09/17/2015
Reported:	09/18/2015	Sampling Type:	Soil
Project Name:	STATE SWD #3	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: BLENDED CELL 2 (H502453-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	544	16.0	09/18/2015	ND	432	108	400	3.77		

Sample ID: BLENDED CELL 4 (H502453-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	592	16.0	09/18/2015	ND	432	108	400	3.77		

Sample ID: BLENDED CELL 5 (H502453-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	544	16.0	09/18/2015	ND	432	108	400	3.77		

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

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
•	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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



Page 4 of 4

(676) 393-2328 FAX (676) 393-2476

Company Name: A Pacific

Project Manager: Birca Pakir

Address: _____

City: _____ State: _____ Zip: _____

Phone #: _____ **Fax #:** _____

Project #:	Project Owner:
------------	----------------

Project Name:

Project Location: Stop 34P E

Sample Name:

FOR LAB USE ONLY

•

•

•

•

•

Lab I.D.

15

二

2

[illegible]

1008 J. H. Jansen et al.

100

--	--

--	--

PLEASE NOTE: Only one

anyone. All claims include
service. In no event shall C

Real Estate

10

1712

--

Delivered By:

Sampler - UPS

+ Cardinal

Apache State SWD # 3 Photo Page



Photo of Soil Washing Set-Up Facing North



Photo of Soil Washing Facing North-East



Photo of Stock Pile Facing North-West



Photo of Soil Washing Facing West



Photo of Vertical Delineation Facing East



Photo of Spotting Edge of Liner Facing North-East



Photo of Pasture Backfilled Facing East



Photo of Pasture Backfilled Facing North-East

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: Apache Corporation	Contact Bruce Baker
Address: 2350 W Marland Blvd Hobbs, NM 88240	Telephone No. (432) 631-6982
Facility Name State SWD # 3	Facility Type: Injection Well

Surface Owner State	Mineral Owner	API No. 30-015-38978
---------------------	---------------	----------------------

LOCATION OF RELEASE

Unit Letter E	Section 30	Township 17S	Range 31E	Feet from the 2300	North/South Line FNL	Feet from the 725	East/West Line FWL	County Eddy
------------------	---------------	-----------------	--------------	-----------------------	-------------------------	----------------------	-----------------------	----------------

Latitude N32.806401 Longitude W103.914498

NATURE OF RELEASE

Type of Release: produced water	Volume of Release 300 barrels of produced water	Volume Recovered 260 barrels of produced water
Source of Release: steel discharge line	Date and Hour of Occurrence 3/4/2015	Date and Hour of Discovery 3/4/2015
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher (NMOCD)	
By Whom? Bruce Baker	Date and Hour 3/4/2015	
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.*

The line was isolated and vacuum trucks were dispatched to pick up standing fluid. A new line was installed.

Describe Area Affected and Cleanup Action Taken.*

Approximately 44,000 square feet with 20,000 square feet in pasture. The pasture has been delineated and the majority of the pasture has been excavated to a depth of 1 foot. On March 26, 2015 a path forward was submitted and approved by NMOCD on April 8, 2015 to soil wash excavated soil. Apache Corporation has completed the work in accordance of the path forward approved of April 8, 2015 and respectfully request termination of this event.

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: <u>Bruce Baker</u>		OIL CONSERVATION DIVISION	
Printed Name: Bruce Baker		Approved by Environmental Specialist:	
Title: Environmental Technician		Approval Date:	Expiration Date:
E-mail Address: larry.baker@apachecorp.com		Conditions of Approval:	
Date: 11/28/2016 Phone: (432) 631-6982		Attached <input type="checkbox"/>	

* Attach Additional Sheets If Necessary