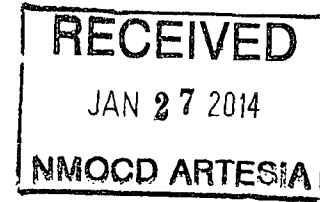




January 3, 2014



AMARILLO  
921 North Bivins  
Amarillo, Texas 79107  
Phone 806.467.0607  
Fax 806.467.0622

Mr. Mike Bratcher  
**NMOCD District 2**  
811 S. 1<sup>st</sup> Street  
Artesia, NM 88210

ARTESIA  
408 West Texas Ave.  
Artesia, New Mexico 88210  
Phone 575.746.8768  
Fax 575.746.8905

Subject: **Remedial Activities and Closure Report**  
Apache Corporation  
Tony Federal #27  
30-015-32753 2RP-1711

Dear Mr. Bratcher,

HOBBS  
318 East Taylor Street  
Hobbs, New Mexico 88240  
Phone 575.393.4261  
Fax 575.393.4658

Apache Corporation (Apache) contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above referenced location. The incident description, soil sampling results, remediation activities and closure request are submitted herein.

MIDLAND  
2901 State Hwy 349  
Midland, Texas 79706  
Phone 432.522.2133  
Fax 432.522.2180

#### **Incident Date**

The release was discovered on July 1, 2013 at 8:00 am.

#### **Background Information**

OKLAHOMA CITY  
7700 North Hudson Avenue  
Suite 10  
Oklahoma City, Oklahoma 73116  
Phone 405.486.7030  
Fax 806.467.0622

The Apache Tony Federal #27 is located approximately thirty (30) miles East of Artesia New Mexico. The legal location for this site is Unit H, Section 19, Township 17 South, Range 31 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.82274 North and -103.90375 West. A site plan is presented in Appendix I.

SAN ANTONIO  
11 Commercial Place  
Schertz, Texas 78154  
Phone 210.265.8025  
Fax 210.568.2191

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service, the soil in this area is made up of the Largo Loam with 1 to 5 percent slopes. Per the New Mexico Bureau of Geology and Mineral Resources the local surface and shallow geology is Holocene to middle Pleistocene in age and is comprised of eolian and piedmont deposits. Drainage courses in this area are normally dry. The New Mexico Office of the State Engineer shows that all water wells in the project area are currently dry. According to the 2006 Chevron Texaco groundwater trend map, ground water in the project area is approximately 200-feet below ground surface (bgs). See Appendix II for the referenced groundwater data.

ENVIRONMENTAL CONSULTING  
ENGINEERING  
DRILLING  
CONSTRUCTION  
SPILL MANAGEMENT  
GENERAL CONTRACTING

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

Depth to ground water	>100'
Wellhead Protection Area	>1000'
Distance to surface water body	>1000'

Toll Free: 866.742.0742  
www.talonlpe.com

## **Incident Description**

On July 1, 2013 the stuffing box on the Tony #27 leaked causing a release of 4bbls of oil and 15bbls of produced water. The fluid flowed from the pumping unit, south across the location and into the pasture. The fluid continued to flow south across the pasture and crossed another Apache location and reentered the pasture where the flow path stopped. The site plan in Appendix I illustrates the impacted area. A vacuum truck was utilized to recover 1bbls of oil and 10bbls of produced water.

## **Remedial Actions**

### **September 4, 2013 through September 6, 2013**

- Talon personnel were mobilized to scrape and remove the first 0.5-feet of the heavily impacted soil to prevent any further spread of contaminants.
- All of the excavated material was hauled to a New Mexico Oil Conservation Division (NMOCD) approved solid waste disposal facility (R360).

### **September 11, 2013**

- Talon personnel were mobilized to carry out soil sampling activities utilizing a backhoe to delineate the impacted area. (See Appendix I for site plan of sample locations.)
- Grab soil samples were collected on location at sample point S-1, in the pasture at sample point S-2, on the second location at sample point S-3, and in the second pasture area at sample point S-4. (See Appendix I for site plan of sample locations.)
- All of the soil samples were sent to Cardinal Laboratories in Hobbs, New Mexico for analysis. A data table summarizing the results is attached. (See Appendix III for complete laboratory results.)

### **October 18, 2013**

- Upon receipt of laboratory results from the sampling activities that took place on September 11, 2013, Talon drafted a remediation work plan for submission to the NMOCD and the Bureau of Land Management (BLM).
- The remediation work plan was subsequently approved by Mike Bratcher of the NMOCD and Jeffery Robertson of the BLM.

### November 4, 2013 through November 15, 2013

- The impacted area on the location was excavated to a depth of 2-feet bgs, per the approved work plan.
- All impacted material was hauled to an NMOCD approved solid waste disposal facility (R360).
- The excavated areas on the location(s) were backfilled with caliche and berms were constructed around the Tony #27 location to contain any future releases.
- The backfilled area(s) in the pasture were backfilled with sand and contoured to match the surrounding terrain.

### November 18, 2013

- The backfilled areas in the pasture were seeded with BLM seed mixture #2. Seed labels area attached in Appendix IV.

### Laboratory Results

See Appendix III for complete report of laboratory results.

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-1	1	ND	1880	ND	ND
S-1	2	ND	320	ND	ND
S-1	3	--	192	--	--
S-2	0.5	ND	32	ND	88.4
S-2	1	ND	48	ND	ND
S-2	2	--	64	--	--
S-3	0	ND	816	ND	39.2
S-3	2	ND	336	ND	ND
S-3	4	--	256	--	--
S-4	0.5	4.21	32	101	1500
S-4	2	ND	ND	ND	ND
S-4	3	--	ND	--	--

(ND) Analyte not detected

(--) Analyte not tested

Based upon the site ranking of **0**, NMOCD Recommended Remedial Action Levels (RRAL's) are 50 mg/kg for BTEX, 10 mg for Benzene, and 5,000 mg/kg for TPH. The chloride remediation standard is considered to be 1,000 mg/kg.

## Summary and Conclusions

- Ground water in the project vicinity is approximately than 200-feet bgs according to the 2006 Chevron Texaco ground water trend map.
- The impacted area was initially scraped to a depth of 0.5-feet bgs.
- Upon receipt of laboratory results it was shown that the impacted area off the Tony #27 location was below NMOCD RRAL's for this site ranking. This indicates that the impacted area off of the location was sufficiently remediated during initial spill response activities.
- All of the impacted material on the location was subsequently removed and backfilled with caliche. Berms were constructed around the Tony Federal #27 location.
- The excavated area in the pasture was backfilled with sand, contoured to match the surrounding terrain and seeded with BLM seed mixture #2.

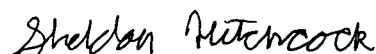
## Closure

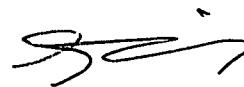
On behalf of Apache Corporation we respectfully request that no further actions be required and that closure with regard to this release be granted.

If we can provide additional information or be of further assistance, please contact our office at (575)-746-8768.

Respectfully submitted,

TALON/LPE

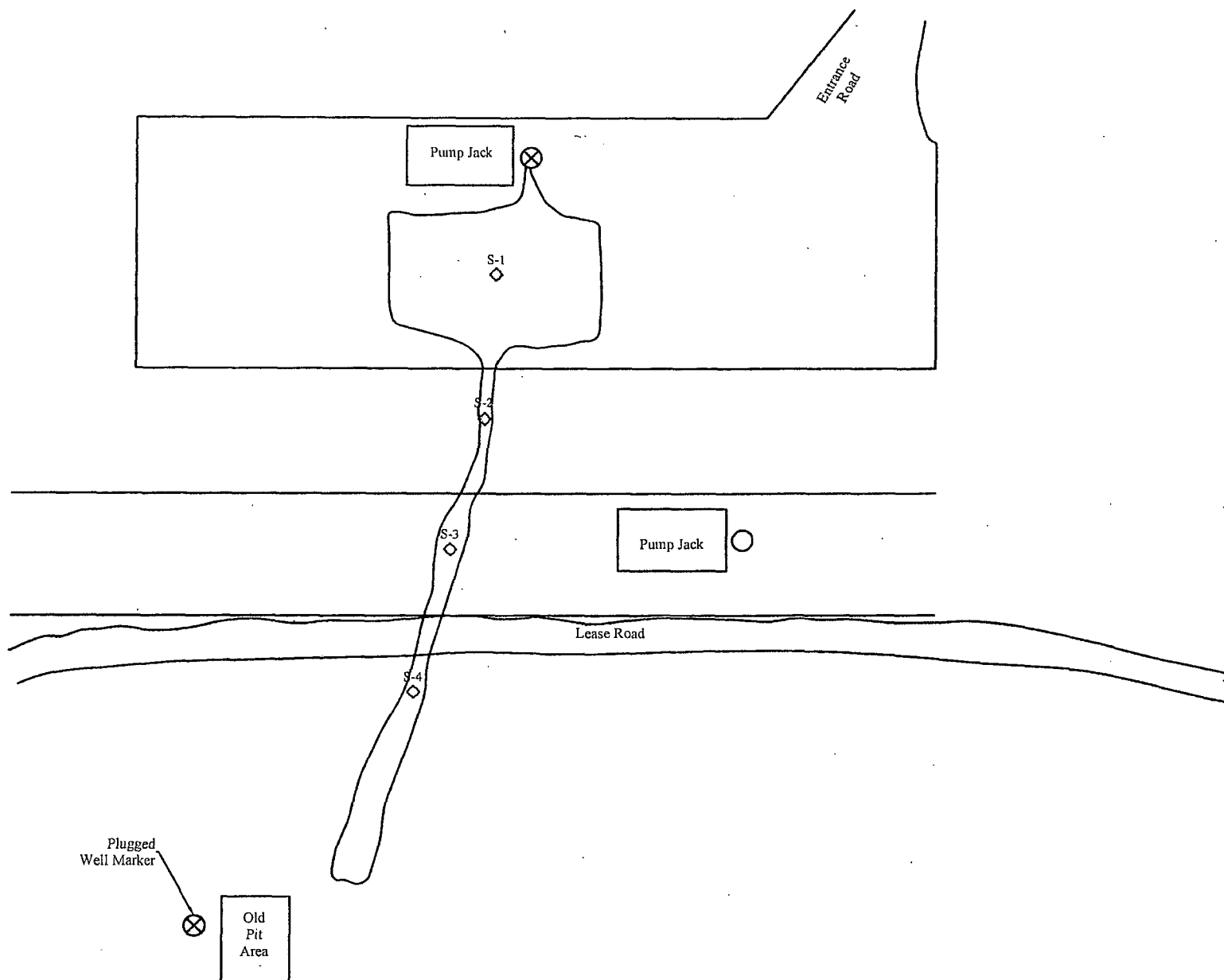
  
Sheldon Hitchcock  
Environmental Scientist

  
David J. Adkins  
District Manager

# **SITE PLAN**



Legend  
◇ - Sample Location



Date: 09/26/2013

Scale: NTS

Drawn By: TJS

Tony Fed #27  
Apache Corporation  
Eddy County, New Mexico  
Figure 1 - Site Plan

**GROUNDWATER DATA**  
**INITIAL & FINAL C-141**



# New Mexico Office of the State Engineer Water Column/Average Depth to Water

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

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

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

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

(In feet)

POD Number	POD Sub-Code	basin	County	Q Q Q Q				Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
				64	16	4										
RA 11590 POD4			ED	4	1	1		32	17S	31E	603308	3629253	2869	55		
RA 11590 POD3			ED	3	1	2		32	17S	31E	603932	3629260	3052	60		
RA 11590 POD1			ED	2	1	3		32	17S	31E	603315	3628545	3566	158		

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

Record Count: 3

## Basin/County Search:

County: Eddy

## UTMNAD83 Radius Search (in meters):

Easting (X): 602723

Northing (Y): 3632063

Radius: 5000

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.



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

RECEIVED

JUL 11 2013

NMOCD ARTESIA

Form C-141  
Revised August 8, 2011

Submit to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

nJMW1319237133

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	Apache Corporation	873	Contact	George Rivera
Address	2350 W. Marland Blvd., Hobbs, NM 88240		Telephone No.	(575) 347-8708
Facility Name	Tony Federal #27		Facility Type	Stuffing Box Release

Surface Owner	Federal	Mineral Owner	Federal	API No.	3001532753
---------------	---------	---------------	---------	---------	------------

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
H	19	17S	31E	1650	FNL	990	FEL	Eddy

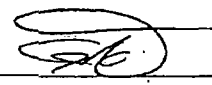
Latitude \_\_\_\_\_ Longitude \_\_\_\_\_

NATURE OF RELEASE

Type of Release. Oil and Produced water	Volume of Release 4 bbls oil/15 bbls water	Volume Recovered 1 bbl oil; 10 bbls water
Source of Release Stuffing box release	Date and Hour of Occurrence 7/1/13	Date and Hour of Discovery 7/1/13 8:00 am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher	
By Whom? RECS per Apache Corp.	Date and Hour 7/1/13 2:00 pm	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.*		
Describe Cause of Problem and Remedial Action Taken.* The release occurred at the stuffing box on the well. A total of 4 barrels of oil and 15 barrels of produced water was released on the lease pad. A vacuum truck was called to the site and removed 1 barrel of oil and 10 barrels of produced water. The affected pad was scraped down to remove the wet soil and the site will be delineated for further action.		
Describe Area Affected and Cleanup Action Taken.*		

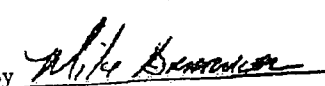
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger 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.

OIL CONSERVATION DIVISION

Signature: 

Printed Name: George Rivera

Approved by Environmental Specialist:

Signed By 

Title: EH&S Tech

Approval Date: JUL 11 2013

Expiration Date:

E-mail Address: Jorge.rivera@apachecorp.com

Conditions of Approval:

Remediation per OCD Rule & Guidelines, & like approval by BLM. SUBMIT REMEDIATION

Attached ☐

Date: 7/1/13 Phone: (575) 347-8708

PROPOSAL NO LATER THAN:

August 11, 2013

2RP-1711

\* Attach Additional Sheets If Necessary

**RECEIVED**

JAN 27 2014

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

**NMOC D ARTESIA**

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 P.O. Box 1849 Eunice, NM 88231	Telephone No. 432-631-6982
Facility Name Tony Federal #27	Facility Type Oil Well

Surface Owner BLM	Mineral Owner Federal	API No. 30-015-32753
-------------------	-----------------------	----------------------

**LOCATION OF RELEASE**

Unit Letter II	Section 19	Township 17S	Range 31E	Feet from the 1650	North/South Line FNL	Feet from the 990	East/West Line FEL	County Eddy
-------------------	---------------	-----------------	--------------	-----------------------	-------------------------	----------------------	-----------------------	----------------

Latitude 32.82274 Longitude -103.90375**NATURE OF RELEASE**

Type of Release Mixed Fluids	Volume of Release 4bbls oil & 15bbls water	Volume Recovered 1bbl oil & 10bbls water
Source of Release Stuffing Box	Date and Hour of Occurrence 7/1/13	Date and Hour of Discovery 8:00 am 7/1/13
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher of NMOC D	
By Whom? RECS per Apache Corp.	Date and Hour 7/1/13 2:00pm	
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 release occurred at the stuffing box on the well. A vacuum truck was mobilized to recover 1bbl of oil and 10bbls of produced water. Talon/LPE was contracted to conduct initial spill response activities, perform soil sampling and draft a remediation work plan.

Describe Area Affected and Cleanup Action Taken.\*

Upon approval of the remediation work plan from NMOC D and BLM Talon/LPE performed the remedial activities described in the work plan. A closure report documenting the activities that took place on this site will be submitted to the NMOC D and BLM.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOC D 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 NMOC D 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, NMOC D 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.

**OIL CONSERVATION DIVISION**

Signature: <u>Bruce Baker</u>	Approved by Environmental Specialist:		
Printed Name: Bruce Baker			
Title: Field Tech	Approval Date:	Expiration Date:	
E-mail Address: larry.baker@apachecorp.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: <u>1-27-14</u> Phone: <u>432-631-6982</u>			

\* Attach Additional Sheets If Necessary

2 RP-1711

# LABORATORY RESULTS



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

---

September 18, 2013

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: TONY FED #27

Enclosed are the results of analyses for samples received by the laboratory on 09/16/13 10:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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](http://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,

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

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

 TALON LPE  
 DAVID ADKINS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

 Received: 09/16/2013  
 Reported: 09/18/2013  
 Project Name: TONY FED #27  
 Project Number: 700745.027.01  
 Project Location: S19, T17S, R31E

 Sampling Date: 09/11/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: S-1 1' (H302222-01)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/17/2013	ND	2.21	111	2.00	0.770	
Toluene*	<0.050	0.050	09/17/2013	ND	2.32	116	2.00	0.747	
Ethylbenzene*	<0.050	0.050	09/17/2013	ND	2.39	120	2.00	0.772	
Total Xylenes*	<0.150	0.150	09/17/2013	ND	7.27	121	6.00	0.00775	
Total BTEX	<0.300	0.300	09/17/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1880	16.0	09/17/2013	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/17/2013	ND	201	100	200	3.89	
DRO >C10-C28	<10.0	10.0	09/17/2013	ND	188	94.1	200	2.77	

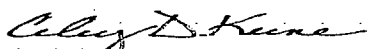
Surrogate: 1-Chlorooctane 86.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 90.2 % 63.6-154

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

**Analytical Results For:**

 TALON LPE  
 DAVID ADKINS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	09/16/2013	Sampling Date:	09/11/2013
Reported:	09/18/2013	Sampling Type:	Soil
Project Name:	TONY FED #27	Sampling Condition:	Cool & Intact
Project Number:	700745.027.01	Sample Received By:	Jodi Henson
Project Location:	S19, T17S, R31E		

**Sample ID: S-1 2' (H302222-02)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/17/2013	ND	2.21	111	2.00	0.770	
Toluene*	<0.050	0.050	09/17/2013	ND	2.32	116	2.00	0.747	
Ethylbenzene*	<0.050	0.050	09/17/2013	ND	2.39	120	2.00	0.772	
Total Xylenes*	<0.150	0.150	09/17/2013	ND	7.27	121	6.00	0.00775	
Total BTEX	<0.300	0.300	09/17/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 115 % 89.4-126

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	09/17/2013	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/17/2013	ND	201	100	200	3.89	
DRO >C10-C28	<10.0	10.0	09/17/2013	ND	188	94.1	200	2.77	

Surrogate: 1-Chlorooctane 104 % 65.2-140

Surrogate: 1-Chlorooctadecane 110 % 63.6-154

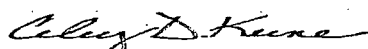
**Sample ID: S-1 3' (H302222-03)**

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	09/17/2013	ND	432	108	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

**Analytical Results For:**

 TALON LPE  
 DAVID ADKINS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

 Received: 09/16/2013  
 Reported: 09/18/2013  
 Project Name: TONY FED #27  
 Project Number: 700745.027.01  
 Project Location: S19, T17S, R31E

 Sampling Date: 09/11/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: S-2 0.5' (H302222-04)**

BTEX 8021B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/17/2013	ND	2.21	111	2.00	0.770		
Toluene*	<0.050	0.050	09/17/2013	ND	2.32	116	2.00	0.747		
Ethylbenzene*	<0.050	0.050	09/17/2013	ND	2.39	120	2.00	0.772		
Total Xylenes*	<0.150	0.150	09/17/2013	ND	7.27	121	6.00	0.00775		
Total BTEX	<0.300	0.300	09/17/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 115 % 89.4-126

Chloride, SM4500Cl-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	09/17/2013	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/17/2013	ND	201	100	200	3.89	
DRO >C10-C28	88.4	10.0	09/17/2013	ND	188	94.1	200	2.77	

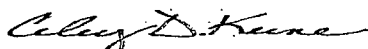
Surrogate: 1-Chlorooctane 94.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 96.9 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 TALON LPE  
 DAVID ADKINS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

 Received: 09/16/2013  
 Reported: 09/18/2013  
 Project Name: TONY FED #27  
 Project Number: 700745.027.01  
 Project Location: S19, T17S, R31E

 Sampling Date: 09/11/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: S-2 1' (H302222-05)**

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/17/2013	ND	2.21	111	2.00	0.770	
Toluene*	<0.050	0.050	09/17/2013	ND	2.32	116	2.00	0.747	
Ethylbenzene*	<0.050	0.050	09/17/2013	ND	2.39	120	2.00	0.772	
Total Xylenes*	<0.150	0.150	09/17/2013	ND	7.27	121	6.00	0.00775	
Total BTEX	<0.300	0.300	09/17/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 115 % 89.4-126

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	09/17/2013	ND	432	108	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/17/2013	ND	201	100	200	3.89	
DRO >C10-C28	<10.0	10.0	09/17/2013	ND	188	94.1	200	2.77	

Surrogate: 1-Chlorooctane 111 % 65.2-140

Surrogate: 1-Chlorooctadecane 115 % 63.6-154

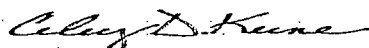
**Sample ID: S-2 2' (H302222-06)**

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/17/2013	ND	432	108	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

 TALON LPE  
 DAVID ADKINS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax-To: (575) 745-8905

Received:	09/16/2013	Sampling Date:	09/11/2013
Reported:	09/18/2013	Sampling Type:	Soil
Project Name:	TONY FED #27	Sampling Condition:	Cool & Intact
Project Number:	700745.027.01	Sample Received By:	Jodi Henson
Project Location:	S19, T17S, R31E		

**Sample ID: S-3 0' (H302222-07)**

BTEX 8021B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/17/2013	ND	2.21	111	2.00	0.770		
Toluene*	<0.050	0.050	09/17/2013	ND	2.32	116	2.00	0.747		
Ethylbenzene*	<0.050	0.050	09/17/2013	ND	2.39	120	2.00	0.772		
Total Xylenes*	<0.150	0.150	09/17/2013	ND	7.27	121	6.00	0.00775		
Total BTEX	<0.300	0.300	09/17/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 117 % 89.4-126

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	09/17/2013	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/17/2013	ND	201	100	200	3.89	
DRO >C10-C28	39.2	10.0	09/17/2013	ND	188	94.1	200	2.77	

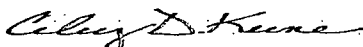
Surrogate: 1-Chlorooctane 115 % 65.2-140

Surrogate: 1-Chlorooctadecane 124 % 63.6-154

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 TALON LPE  
 DAVID ADKINS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

 Received: 09/16/2013  
 Reported: 09/18/2013  
 Project Name: TONY FED #27  
 Project Number: 700745.027.01  
 Project Location: S19, T17S, R31E

 Sampling Date: 09/11/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: S-3 2' (H302222-08)**

BTX 8021B			mg/kg							Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Benzene*	<0.050	0.050	09/17/2013	ND	2.21	111	2.00	0.770			
Toluene*	<0.050	0.050	09/17/2013	ND	2.32	116	2.00	0.747			
Ethylbenzene*	<0.050	0.050	09/17/2013	ND	2.39	120	2.00	0.772			
Total Xylenes*	<0.150	0.150	09/17/2013	ND	7.27	121	6.00	0.00775			
Total BTX	<0.300	0.300	09/17/2013	ND							

Surrogate: 4-Bromofluorobenzene (PIL) 117 % 89.4-126

Chloride, SM4500Cl-B			mg/kg							Analyzed By: AP	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	336	16.0	09/17/2013	ND	432	108	400	0.00			

TPH 8015M			mg/kg							Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	<10.0	10.0	09/17/2013	ND	201	100	200	3.89			
DRO >C10-C28	<10.0	10.0	09/17/2013	ND	188	94.1	200	2.77			

Surrogate: 1-Chlorooctane 107 % 65.2-140

Surrogate: 1-Chlorooctadecane 118 % 63.6-154

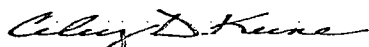
**Sample ID: S-3 4' (H302222-09)**

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	09/17/2013	ND	432	108	400	0.00			

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\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 TALON LPE  
 DAVID ADKINS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

 Received: 09/16/2013  
 Reported: 09/18/2013  
 Project Name: TONY FED #27  
 Project Number: 700745.027.01  
 Project Location: S19, T17S, R31E

 Sampling Date: 09/11/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: S-4 0.5' (H302222-10)**

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/17/2013	ND	2.21	111	2.00	0.770	
Toluene*	0.088	0.050	09/17/2013	ND	2.32	116	2.00	0.747	
Ethylbenzene*	0.659	0.050	09/17/2013	ND	2.39	120	2.00	0.772	
Total Xylenes*	3.46	0.150	09/17/2013	ND	7.27	121	6.00	0.00775	
Total BTEX	4.21	0.300	09/17/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 164 % 89.4-126

Chloride, SM4500Cl-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	09/17/2013	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	101	10.0	09/17/2013	ND	201	100	200	3.89	
DRO >C10-C28	1500	10.0	09/17/2013	ND	188	94.1	200	2.77	

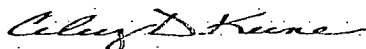
Surrogate: 1-Chlorooctane 122 % 65.2-140

Surrogate: 1-Chlorooctadecane 130 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 TALON LPE  
 DAVID ADKINS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

 Received: 09/16/2013  
 Reported: 09/18/2013  
 Project Name: TONY FED #27  
 Project Number: 700745.027.01  
 Project Location: S19, T17S, R31E

 Sampling Date: 09/11/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: S-4 2' (H302222-11)**

BTEx 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/17/2013	ND	2.21	111	2.00	0.770	
Toluene*	<0.050	0.050	09/17/2013	ND	2.32	116	2.00	0.747	
Ethylbenzene*	<0.050	0.050	09/17/2013	ND	2.39	120	2.00	0.772	
Total Xylenes*	<0.150	0.150	09/17/2013	ND	7.27	121	6.00	0.00775	
Total BTEx	<0.300	0.300	09/17/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 118 % 89.4-126

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/17/2013	ND	432	108	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/17/2013	ND	201	100	200	3.89	
DRO >C10-C28	<10.0	10.0	09/17/2013	ND	188	94.1	200	2.77	

Surrogate: 1-Chlorooctane 85.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 88.7 % 63.6-154

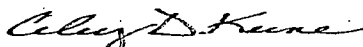
**Sample ID: S-4 3' (H302222-12)**

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/17/2013	ND	432	108	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

### Notes and Definitions

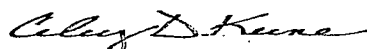
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	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

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---

Celey D. Keene, Lab Director/Quality Manager



Company Name: Talon/LPE						BILL TO								ANALYSIS REQUEST													
Project Manager: D. Adkins						P.O. #:																					
Address: 408 W. Texas Ave.						Company: Talon/LPE																					
City: Artesia State: NM Zip: 88210						Attn:																					
Phone #: 575-746-8768 Fax #: 575-746-8905						Address:																					
Project #: 700746.027.01 Project Owner: Apache						City:																					
Project Name: Tony 27						State: Zip:																					
Project Location: S19, T17S, R31E						Phone #:																					
Sampler Name: Sheldon Hitchcock						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:	ACID/BASE	ICE/Cool	OTHER:	DATE	TIME	TPH	BTEX	Chlorides								
H30222						G	1	/	/	/	/	/	/	/	9/11/13	10:23	/	/	/								
1 5-1 1'						G	1	/	/	/	/	/	/	/		10:22	/	/	/								
2 5-1 2'						G	1	/	/	/	/	/	/	/		10:21	/	/	/								
3 5-1 3'						G	1	/	/	/	/	/	/	/		9:40	/	/	/								
4 5-2 0.5'						G	1	/	/	/	/	/	/	/		9:41	/	/	/								
5 5-2 1'						G	1	/	/	/	/	/	/	/		9:50	/	/	/								
6 5-2 2'						G	1	/	/	/	/	/	/	/		9:27	/	/	/								
7 5-3 0'						G	1	/	/	/	/	/	/	/		9:26	/	/	/								
8 5-3 2'						G	1	/	/	/	/	/	/	/		9:25	/	/	/								
9 5-3 4'						G	1	/	/	/	/	/	/	/		9:01	/	/	/								
10 5-4 0.5'						G	1	/	/	/	/	/	/	/													
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Relinquished By:						Date:		Received By:						Phone Result:		<input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:									
Sheldon Hitchcock						Time:								Fax Result:		<input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:									
Relinquished By:						Date:		Received By:						REMARKS:													
[Signature]						9/16/13		[Signature]																			
Delivered By: (Circle One)						Time:																					
Sampler - UPS - Bus - Other:						10:50																					
								Sample Condition						CHECKED BY:													
								Cool Intact						(Initials)													
								<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						UPD													

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

#54 7.8°C



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <u>Talon/LPE</u>		BILL TO		ANALYSIS REQUEST																							
Project Manager: <u>D. Adkins</u>		P.O. #:																									
Address: <u>408 W. Texas Ave</u>		Company: <u>Talon/LPE</u>																									
City: <u>Artesia</u> State: <u>NM</u> Zip: <u>88210</u>		Attn:																									
Phone #: <u>575-746-8768</u> Fax #: <u>575-746-8905</u>		Address:																									
Project #: <u>700746.027.01</u> Project Owner: <u>Apache</u>		City:																									
Project Name: <u>Tony 27</u>		State: Zip:																									
Project Location: <u>S19, T17S, R31E</u>		Phone #:																									
Sampler Name: <u>Sheldon Hitchcock</u>		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:	ACID/BASE	ICE/COOL	OTHER:	DATE	TIME													
<u>H302a22</u>																											
<u>11</u>	<u>5-42'</u>	<u>6</u>	<u>1</u>			<u>/</u>					<u>/</u>		<u>9/11/13</u>	<u>9:10</u>	<u>/</u>	<u>BTEX</u>	<u>Cweridz</u>										
<u>12</u>	<u>5-43'</u>	<u>6</u>	<u>1</u>			<u>/</u>					<u>/</u>		<u>9/11/13</u>	<u>9:11</u>	<u>/</u>												

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 the client for the 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 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: <u>Sheldon Hitchcock</u>	Date: <u>9/16/13</u>	Received By: <u>[Signature]</u>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By: <u>[Signature]</u>	Time: <u>10:50</u>	Received By: <u>[Signature]</u>	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: <u>[Signature]</u>			REMARKS:	
Sampler: <u>UPS</u> - Bus - Other:		Sample Condition: <input type="checkbox"/> Cool <input type="checkbox"/> Intact		
		<input type="checkbox"/> Yes <input type="checkbox"/> No		
		CHECKED BY: <u>KP</u>		

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

#54 7.8°C

Pg 2 of 2

# SEED LABLES



Curtis & Curtis, Inc  
4500 North Prince  
Clovis, NM 88130  
Phone: (575) 762-4759

11-18-13

Talon Drilling LP  
1.5 Acre BLM #2, Broadcast Rate  
1 - 1 Acre Bag @ 30.31 Bulk Pounds Each  
1 - 1/2 Acre Bag @ 15.15 Bulk Pounds Each  
Job: 700745.027.01  
Apache Tony Fed #27

Lot# M-11866

Item	Origin	Purity	Germ	Dormant	Germ & Dormant	Test Date	Total PLS Pounds
Sand Dropseed	Colorado	13.47%	2.00%	96.00%	98.00%	03/13	6.00
VNS							
Little Bluestem	Minnesota	20.84%	50.00%	45.00%	95.00%	03/13	9.00
Itasca							
Coreopsis	Texas	15.35%	82.00%	4.00%	86.00%	10/13	6.00
Plains							
Sideoats Grama	Texas	22.50%	83.00%	5.00%	88.00%	06/13	9.00
Niner							
Indian Ricegrass	Colorado	14.35%	2.00%	90.00%	92.00%	10/13	6.00
Paloma							

Other Crop: 0.06%  
Weed Seed: 0.05%  
Inert Matter: 13.38%

There Are 2 Bags For This Mix  
This Bag Weighs 30.31 Bulk Pounds  
Use This Bag For 1 Acres

Total Bulk Pounds: 45

Curtis & Curtis, Inc  
4500 North Prince  
Clovis, NM 88130  
Phone: (575) 762-4759

11-18-13

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Sideoats Grama	Texas	22.50%	83.00%	5.00%	88.00%	06/13	9.00
Niner							
Indian Ricegrass	Colorado	14.35%	2.00%	90.00%	92.00%	10/13	6.00
Paloma							

Other Crop: 0.06%  
Weed Seed: 0.05%  
Inert Matter: 13.38%

There Are 2 Bags For This Mix  
This Bag Weighs 15.15 Bulk Pounds  
Use This Bag For 1/2 Acres

Total Bulk Pounds: 45