



July 13, 2011



Mr. Mike Bratcher
NMOCD District 2
1301 West Grand Avenue
Artesia, NM 88210

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

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

AUSTIN
911 West Anderson Lane
Suite 202
Austin, Texas 78757
Phone 512.989.3428
Fax 512.989.3487

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

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

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

TULSA
525 South Main Street
Suite 535
Tulsa, Oklahoma 74103
Phone 918.742.0871
Fax 918.382.0232

Subject: **Remediation and Closure Report**
Quantum Resources Management, LLC
Artesia Unit No. 58 - Closed Work Over Pit
API # 30-015-01791

Dear Mr. Bratcher,

Quantum Resources Management, LLC has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the referenced Artesia Unit No. 58 closed work over pit. The incident description, soil assessment, remediation activities and closure request are submitted herein.

Incident Date

February 2, 2005

Background Information

The Artesia Unit No. 58 is located approximately seventeen (17) miles southeast of Artesia, New Mexico. The legal location for the site is Section 3, Township 18 South and Range 28 East in Eddy County, New Mexico. More Specifically the latitude and longitude for the release are 32.77243 North and -104.17166 West.

This site lies on undulating plains and low hills consisting of wind worked sandy deposits. Drainage courses in this area are normally dry. The local surface and shallow geology consists of Quaternary Age sedimentary deposits comprised of alluvium and eolian sands underlain by sand stone and hard caliches. The New Mexico State Engineer web site indicates the nearest ground water data to be in S34-T17S-R28E. The ground water in Section 34 is reported to be at an average depth of 53' below ground surface (bgs). The referenced groundwater data is presented in Appendix I.

The ranking for this site is 10 based on the as following:

Depth to ground water	50'-100'
Wellhead Protection Area	>1000'
Distance to surface water body	>1000'

ENVIRONMENTAL CONSULTING
ENGINEERING
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GENERAL CONTRACTING

Toll Free: 866.742.0742
www.talonlpe.com

Incident Description

On February 2, 2005 a Pit Closure C-144 Form was submitted to the NMOCD. The application was denied on February 7, 2005 due to lack of information. On March 24, 2005 a letter of violation (LOV) was issued for an open pit with impacted walls. The work over pit was subsequently closed.

Remedial Actions Taken

On February 22, 2011 Talon personnel mobilized to the site to begin soil sampling and site assessment activities. Grab soil samples were collected utilizing a hand auger from within the closed work over pit (S-1).

On March 15, 2011 Talon personnel met on site with NMOCD Environmental Specialist, Mike Bratcher. Mr. Bratcher requested further vertical delineation for chlorides to 250 mg/kg. Mr. Bratcher also informed Talon that the chloride impacted soil would not be required to be removed from the closed work over pit.

On April 29, 2011 Talon personnel returned to the site with a backhoe. Additional soil samples were collected from the closed pit to a depth of 10-feet bgs.

Talon mobilized personnel again to the site for soil sampling at greater depths utilizing a split spoon auger rig. Grab soil samples were collected from the depths of 10-feet bgs of the excavated area to a depth of 45-feet bgs on two separate occasions (B-1)

All soil samples were collected by Talon personnel wearing clean nitrile gloves. The samples were placed in laboratory provided glassware, iced and transported to Cardinal Laboratories in Hobbs, New Mexico for analysis. The samples were tested for Total Chlorides via Method SM4500Cl-B.

Analytical Results

Analytical results detailed on the attached laboratory reports are summarized below:

February 28, 2011

<u>Sample</u>	<u>Depth (ft)</u>	<u>Total BTEX</u>	<u>TPH</u>	<u>Chlorides</u>
S-1	0-ft	<50 mg/kg	<10 mg/kg	4880 mg/kg
S-1	1'	<50	<10	992

May 13, 2001

<u>Sample, Depth</u>	<u>Chlorides</u>
S-1 2'	1180 mg/kg
S-1 4'	1020
S-1 6'	1460
S-1 8'	1460
S-1, 10'	1340

June 4, 2011

<u>Sample, Depth</u>	<u>Chlorides</u>
S-1 10'	1140 mg/kg
S-1 12'	1300
S-1 14'	1140
S-1 16'	1100
S-1 18'	1170
S-1 20'	1220

June 16, 2011

<u>Sample, Depth</u>	<u>Chlorides</u>
B-1 25'	944 mg/kg
B-1 30'	352
B-1 35'	304
B-1, 45'	192

For this site's ranking, New Mexico Oil Conservation District action level criterion for BTEX is 50 mg/kg, Benzene is 10 mg/kg and TPH is 1,000 mg/kg. The chloride remediation standard is considered to be 1,000 mg/kg.

Conclusions and Recommendations

- Groundwater in the project vicinity is greater than 50-feet below land surface per the New Mexico State Engineer Database.
- Based on the depth to groundwater and the contamination levels detected in the soil; it is unlikely that the impacts identified from this closed work over pit will pose a threat to groundwater.
- Vertical chloride delineation was obtained at a depth of 25-feet bgs, with chloride levels detected less than 1000 mg/kg. Chloride levels in the soil were determined to be less than 250 mg/kg (192 mg/kg) at a depth of 45-feet bgs.

- The NMOCD will not require the chloride impacted soil be removed from the closed work over pit, per Mr. Bratcher.
- Therefore on behalf of Quantum Resources Management, LLC, we respectfully request that no further actions be required and that closure of the LOV, Compliance No. MLB0508352766 with respect to this closed work over pit be granted.

Should you have any questions or if further information is required, please do not hesitate to contact us at 575.746.8768.

Respectfully submitted,

TALON/LPE

A handwritten signature in black ink that reads "Mike Stubblefield". The signature is written in a cursive, slightly slanted style.

Mike Stubblefield
Project Manager

A handwritten signature in black ink that reads "David J. Adkins". The signature is written in a cursive, slightly slanted style.

David J. Adkins
District Manager

APPENDIX I
GROUNDWATER DATA



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

										Sub		Q Q Q					Depth		Depth	Water
POD Number		basin	Use	County	64	16	4	Sec	Tws	Rng	X	Y	Distance	Well	Water	Column				
L 07643		DOM	LE		4	4	2	34	17S	28E	578979	3628574*	2129	120	53	67				
															Average Depth to Water:		53 feet			
															Minimum Depth:		53 feet			
															Maximum Depth:		53 feet			

Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 577608

Northing (Y): 3626945

Radius: 5000

*UTM location was derived from PLSS - see Help

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

APPENDIX II
LABORATORY RESULTS



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

February 28, 2011

MIKE STUBBLEFIELD

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: ARTESIA UNIT #58

Enclosed are the results of analyses for samples received by the laboratory on 02/24/11 10:40.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

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 (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:

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

Received: 02/24/2011
Reported: 02/28/2011
Project Name: ARTESIA UNIT #58
Project Number: 701407.001.02
Project Location: SEC.3-T18S - R28E

Sampling Date: 02/22/2011
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S - 1 0' (H100374-01)

BTEX 8021B		mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/25/2011	ND	2.05	102	2.00	17.1	
Toluene*	<0.050	0.050	02/25/2011	ND	2.15	108	2.00	20.3	
Ethylbenzene*	<0.050	0.050	02/25/2011	ND	2.22	111	2.00	20.8	
Total Xylenes*	<0.150	0.150	02/25/2011	ND	6.49	108	6.00	20.1	

Surrogate: 4-Bromofluorobenzene (PIL) 99.6 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4880	16.0	02/25/2011	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/25/2011	ND	197	98.7	200	0.951	
DRO >C10-C28	<10.0	10.0	02/25/2011	ND	195	97.7	200	1.47	

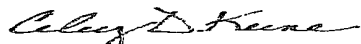
Surrogate: 1-Chlorooctane 103 % 70-130

Surrogate: 1-Chlorooctadecane 98.4 % 70-130

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
MIKE STUBBLEFIELD
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 02/24/2011
Reported: 02/28/2011
Project Name: ARTESIA UNIT #58
Project Number: 701407.001.02
Project Location: SEC.3-T18S - R28E

Sampling Date: 02/22/2011
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S - 1 1' (H100374-02)

BTEX 8021B		mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/25/2011	ND	2.05	102	2.00	17.1	
Toluene*	<0.050	0.050	02/25/2011	ND	2.15	108	2.00	20.3	
Ethylbenzene*	<0.050	0.050	02/25/2011	ND	2.22	111	2.00	20.8	
Total Xylenes*	<0.150	0.150	02/25/2011	ND	6.49	108	6.00	20.1	

Surrogate: 4-Bromofluorobenzene (PIL) 101 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	992	16.0	02/25/2011	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/25/2011	ND	197	98.7	200	0.951	
DRO >C10-C28	<10.0	10.0	02/25/2011	ND	195	97.7	200	1.47	

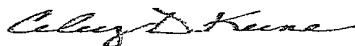
Surrogate: 1-Chlorooctane 113 % 70-130

Surrogate: 1-Chlorooctadecane 110 % 70-130

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

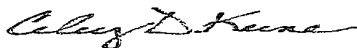
Notes and Definitions

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

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



(505) 393-2326 FAX (505) 393-2476

#26



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

May 13, 2011

MIKE STUBBLEFIELD

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: ARTESIA UNIT #58

Enclosed are the results of analyses for samples received by the laboratory on 05/11/11 14:03.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

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 (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, reading "Celey 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:

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

Received: 05/11/2011
Reported: 05/13/2011
Project Name: ARTESIA UNIT #58
Project Number: 701402.001.02
Project Location: SEC.3-T18S - R28E

Sampling Date: 04/29/2011
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: S - 1 2' (H100953-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1180	16.0	05/11/2011	ND	432	108	400	3.64	

Sample ID: S - 1 4' (H100953-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1020	16.0	05/11/2011	ND	432	108	400	3.64		

Sample ID: S - 1 6' (H100953-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1460	16.0	05/11/2011	ND	432	108	400	3.64		

Sample ID: S - 1 8' (H100953-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1460	16.0	05/11/2011	ND	432	108	400	3.64		

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 05/11/2011
Reported: 05/13/2011
Project Name: ARTESIA UNIT #58
Project Number: 701402.001.02
Project Location: SEC.3-T18S - R28E

Sampling Date: 04/29/2011
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: S - 1 10' (H100953-05)

Chloride, SM4500Cl-B

mg/kg

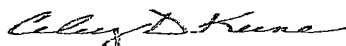
Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1340	16.0	05/11/2011	ND	432	108	400	3.64	

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

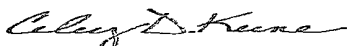
Notes and Definitions

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

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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: Talon / LPE Project Manager: Mike Stubbelfield Address: 408 W. Texas Ave. City: Artesia State: NM Zip: 88210 Phone #: 505-441-7254 Fax #: 505-246-8905 Project #: 701402-001.02 Project Owner: Quantum Res. Project Name: Artesia Unit No. 5B Project Location: sec. 3-T19S-28E Sampler Name: Mike Stubbelfield				BILL TO P.O. #: _____ Company: Talon / LPE Attn: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____				ANALYSIS REQUEST																			
FOR LAB USE ONLY						MATRIX		PRESERV		SAMPLING		Total Chlorides															
Lab I.D.		Sample I.D.		# CONTAINERS		GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER		AC/DIBASE ICE/COOL OTHER		DATE TIME																	
				(GRAB OR COMPO.)																							
HID0953.1		S-1 2'		5		✓		✓		4/29/2011 4:59 P		Total Chlorides															
2		S-1 4'		5		✓		✓		4/29/2011 5:07 P																	
3		S-1 6'		5		✓		✓		4/29/2011 5:31 P																	
4		S-1 8'		5		✓		✓		4/29/2011 5:41 P																	
5		S-1 10'		6		✓		✓		4/29/2011 5:56 P																	
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 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 services hereunder by Cardinal, regardless of whether such claims are based upon any of the above stated reasons or other cause.																											
Relinquished By: Mike Stubbelfield Date: 5/1/11 Time: 2:03				Received By: Godi Jensen Date: _____ Time: _____				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: _____ Add'l Fax #: _____ REMARKS: _____																			
Delivered By: (Circle One) Sampler - UPS - Bus - Other: _____				Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No				CHECKED BY: (Initials) AW																			

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



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

June 04, 2011

MIKE STUBBLEFIELD

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: ARTESIA UNIT NO. 58

Enclosed are the results of analyses for samples received by the laboratory on 06/02/11 11:45.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

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 (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:

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

Received:	06/02/2011	Sampling Date:	05/26/2011
Reported:	06/04/2011	Sampling Type:	Soil
Project Name:	ARTESIA UNIT NO. 58	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	M-3-T18S-R28E		

Sample ID: S-1 10' (H101136-01)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1140	16.0	06/03/2011	ND	432	108	400	0.00	

Sample ID: S-1 12' (H101136-02)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1300	16.0	06/03/2011	ND	432	108	400	0.00	

Sample ID: S-1 14' (H101136-03)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1140	16.0	06/03/2011	ND	416	104	400	3.77	

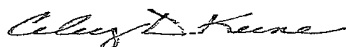
Sample ID: S-1 16' (H101136-04)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1100	16.0	06/03/2011	ND	416	104	400	3.77	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	06/02/2011	Sampling Date:	05/26/2011
Reported:	06/04/2011	Sampling Type:	Soil
Project Name:	ARTESIA UNIT NO. 58	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	M-3-T18S-R28E		

Sample ID: S-1 18' (H101136-05)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1170	16.0	06/03/2011	ND	416	104	400	3.77	

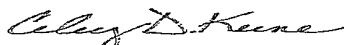
Sample ID: S-1 20' (H101136-06)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1220	16.0	06/03/2011	ND	416	104	400	3.77	

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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

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <u>Jalco/LPE</u>				ANALYSIS REQUEST			
Project Manager:				P.O. #:			
Address: <u>408 W. Texas</u>				Company: <u>Jalco/LPE</u>			
City: <u>Atlanta</u>		State: <u>GA</u> Zip: <u>30310</u>		Attn:			
Phone #: <u>575-746-8768</u>		Fax #: <u>575-746-8905</u>		Address:			
Project #:		Project Owner: <u>Quantum</u>		City:			
Project Name: <u>Atlanta Unit No. 58</u>				State:		Zip:	
Project Location: <u>M-3-T183-R23E</u>				Phone #:			
Sampler Name: <u>Mike Stubbins</u>				Fax #:			

FOR LAB USE ONLY		MATRIX		PRESERV		SAMPLING							
Lab ID.	Sample ID.	GRAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER:	ACID/BASE	ICE / COOL	OTHER:	DATE	TIME
<u>H101136</u>													
<u>-1 S-1 10'</u>		<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<u>5-26-11</u>	<u>9:48a</u>
<u>-2 S-1 12'</u>		<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<u>5-26-11</u>	<u>9:58a</u>
<u>3 S-1 14'</u>		<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<u>5-26-11</u>	<u>10:04a</u>
<u>4 S-1 16'</u>		<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<u>5-26-11</u>	<u>10:07a</u>
<u>5 S-1 18'</u>		<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<u>5-26-11</u>	<u>10:34a</u>
<u>6 S-1 20'</u>		<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<u>5-26-11</u>	<u>10:41a</u>

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Relinquished By:	Date: <u>5/2/11</u>	Received By: <u>Godi Benson</u>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Adm'l Phone #:
	Time: <u>11:45</u>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Adm'l Fax #:
REMARKS:				

Relinquished By:	Date:	Received By:
	Time:	
Delivered By: (Circle One)		
Sampler - UPS - Bus - Other:		

Sample Condition	CHECKED BY:
Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>	(Initials)
Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	<u>GA</u>

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



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

June 16, 2011

MIKE STUBBLEFIELD

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: ARTESIA UNIT #58

Enclosed are the results of analyses for samples received by the laboratory on 06/14/11 16:00.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

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 (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,

Hope Moreno

Inorganic Technical Director

Analytical Results For:

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

 Received: 06/14/2011
 Reported: 06/16/2011
 Project Name: ARTESIA UNIT #58
 Project Number: 701407.001.02
 Project Location: SEC.3-T18S - R28E

 Sampling Date: 06/09/2011
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: B-1 25' (H101235-01)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	944	16.0	06/15/2011	ND	448	112	400	0.00	

Sample ID: B-1 30' (H101235-02)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	06/15/2011	ND	448	112	400	0.00	

Sample ID: B-1 35' (H101235-03)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	06/15/2011	ND	448	112	400	0.00	

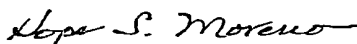
Sample ID: B-1 45' (H101235-04)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	06/15/2011	ND	448	112	400	0.00	

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Hope Moreno, Inorganic Technical Director

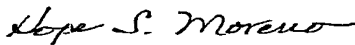
Notes and Definitions

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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
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Hope Moreno, Inorganic Technical Director



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
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