

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: Aspen Operating Company, LLC	Contact: Michael Wilson
Address: 1300 S. University Dr. Ste 200 Ft. Worth, TX 76107	Telephone No. 817-455-2311
Facility Name: State AC #1 SWD	Facility Type: SWD Battery
Surface Owner: Garth Coombes	Mineral Owner: State
API No. 30-025-03646	

#### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
N	15	10S	36E	660	S	1980	W	Lea

Latitude 33.44249 Longitude -103.25071

#### NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: 700bbbls	Volume Recovered: 655bbbls
Source of Release: Tank overflow	Date and Hour of Occurrence:	Date and Hour of Discovery: 3/27/2015
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? OCD voicemail	
By Whom? Larry Spittler	Date and Hour: 3/27/15 @1:00 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 murphy switch and SCADA system at the SWD failed resulting in a tank overflow. They systems that failed were repaired. The tank overflow resulted in the release of approximately 700bbbls of produced water within the berms of the tank battery. Vacuum trucks were dispatched to the site to recover standing fluid. Approximately 655bbbls of fluid were recovered.

Describe Area Affected and Cleanup Action Taken.\*  
Talon/LPE was contracted to perform soil sampling within the impacted area in preparation for drafting a remediation work plan. Upon receipt of analytical data from the sampling even a remediation work plan was drafted and subsequently approved by NMOCD. The remediation was carried out in accordance with the approved work plan and NMOCD stipulations. Remediation of the remaining chloride impacts will be differed until closure of the facility.

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: 	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Michael Wilson	Approved by Environmental Specialist: 	
Title: Production Manager	Approval Date: 7/25/2023	Expiration Date:
E-mail Address: mwilson@aspen-oil.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 3/30/2017	Phone: 817-455-2311	

\* Attach Additional Sheets If Necessary



talonlpe.com • 866.742.0742



**Closure Report**

**State AC #1 SWD**

|30-025-03646|1RP-3588-1|

Talon Project No. 701048.011.01

**Prepared For:**

Aspen Operating Company, LLC  
1300 S. University Dr., Suite 200  
Ft. Worth, TX 76107

**Prepared By:**

Kimberly M. Wilson  
TALON/LPE  
408 W. Texas Avenue  
Artesia, New Mexico 88210

**March 27, 2017**

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

Subject: **Closure Report**  
Aspen Operating Company, LLC  
State AC #1 SWD |30-025-03646|1RP-3588-1

Dear Ms. Yu,

Aspen Operating has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above referenced location. The results of our soil assessment and proposed remediation activities consist of the following.

**Site Information**

The State AC #1 SWD is located approximately forty (42) miles north of Lovington, New Mexico. The legal location for this release is Unit Letter N, Section 15, Township 10 South and Range 36 East in Lea County, New Mexico. More specifically the latitude and longitude for the release are 33.44249 North and -103.25071 West. A site plan is presented in [Appendix I](#).

According to the soil survey provided by the United States Department of Agriculture National Resources Conservation Services (NRSC) the soil in this area is made up of Kermit soils and dune land with 0 to 12 percent slopes. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology, Quaternary Age sedimentary deposits, is comprised of alluvium and eolian sands which includes silty soils under lain by dense caliche layers. Drainage courses in this area are normally dry.

**Ground Water and Site Ranking**

The New Mexico State Engineer web site indicates the nearest ground water data to be in S28-T10S-R36E. The ground water in Section 28 is reported to be at depth of 120' below ground surface (BGS). See [Appendix II](#) for the referenced groundwater data.

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

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

Based upon the site ranking of **0**, NMOCD Recommended Remedial Action Levels (RRAL) are 50 mg/kg for BTEX, 10 mg/kg for Benzene, 5,000 mg/kg for TPH and the recommended guideline for Total Chlorides is 1,000 mg/kg

**Incident Description and Initial Remedial Actions**

On March 27, 2015 the Murphy level switch failed to activate and start the injection pump which caused the SWD tank to overflow releasing 700 barrels of produced water into the berm of the facility. A vac truck was immediately called to the location and 655 barrels were recovered. The facility was shut-in and the wells associated with the SWD were also shut-in until everything was calibrated. See initial C-141 in [Appendix II](#).

A site assessment and soil sampling activities for the construction of a work plan was performed. Initial soil samples were collected utilizing a hand auger to a depth of 4-feet deep. On August 25, 2016 a backhoe was mobilized for further vertical delineation of the impacted areas. The results of our soil sampling activities are summarized in the table below.

**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	0'	6.32	6880	445	2800
	1'	3.9	3360	197	4110
	2'	1.84	1090	217	4600
	3'	1.11	880	178	3810
	4'	<0.300	1040	27.1	1070
	5'	--	294	--	--
S-2	0'	<0.300	26800	<50	3120
	1'	0.555	13200	50.2	2780
	2'	<0.300	4560	<10	83.6
	3'	<0.300	4880	<10	61.4
	4'	<0.300	4000	<10	<10
	5'	--	73.2	--	--
	7'	--	880	--	--
S-3	0'	0.317	64	<50	863
	1'	<0.300	32	<50	196
	2'	<0.300	48	<10	<10
	3'	<0.300	48	<10	<10
S-4	0'	--	28.9	--	--
	3'	--	13.5	--	--
	5'	--	13	--	--
BG	1'	<0.300	<16	<10	<10

(--) Analyte Not Tested

Confirmation Sampling 2/18/2017

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
E.SIDEWALL	N/A	--	800	--	--
W.SIDEWALL	N/A	--	880	--	--
N.SIDEWALL	N/A	--	1020	--	--
S.SIDEWALL	N/A	--	2000	--	--
S-1 BOTTOM	4	--	2320	--	--
S-2 BOTTOM	4	--	6000	--	--

(--) Analyte Not Tested

Based upon the site ranking of 0, NMOCD Recommended Remedial Action Levels (RRAL) are 50 mg/kg for BTEX, 10 mg/kg for Benzene, 5,000 mg/kg for TPH and the recommended guideline for Total Chlorides is 1,000 mg/kg.

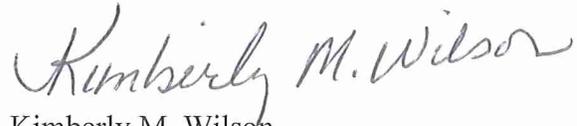
**Proposed Remedial actions**

- To avoid compromising the structural integrity of the tanks within the impacted battery, the soil was excavated to a depth of 4-feet or to the furthest extent feasible.
- Per NMOCD stipulations confirmation soil samples were taken from the bottom of the excavation at sample locations S-1 and S-2. As well as from the 4 sidewalls of the battery.
- The excavated soil was transported to a NMOCD approved solid waste disposal facility.
- The excavated area was be backfilled with new caliche, machine compacted and contoured to match the surrounding location. The berms were also be repaired.
- On behalf of Aspen Operating, we request that remediation of the remaining chloride impacts be deferred until closure of the facility.

Should you have any questions or if further information is required, please do not hesitate to contact our office at (575)-746-8768

Respectfully submitted,

TALON/LPE



Kimberly M. Wilson  
Project Manager



David J. Adkins  
District Manager

Attachments:

- Appendix I Site Plan
- Appendix II Groundwater Data
- Appendix III Initial C-141 & Final C-141
- Appendix IV Photographic Documentation
- Appendix V Laboratory Results

# APPENDIX I

## SITE PLAN

# State AC #1 SWD

Aspen Operation

## Legend

-  2' Excavation
-  4' Excavation
-  Sample Location



100 ft

# APPENDIX II

## GROUNDWATER DATA



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

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

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

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

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water Column	Water
<a href="#">L 12267 POD1</a>	L	LE		1	1	1	28	10S	36E	660885	3699687	3174	200	120	80

Average Depth to Water: 120 feet  
Minimum Depth: 120 feet  
Maximum Depth: 120 feet

Record Count: 1

Basin/County Search:

County: Lea

UTMNAD83 Radius Search (in meters):

Easting (X): 663394

Northing (Y): 3701631

Radius: 3200

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 III  
INITIAL C-141  
&  
FINAL C-141

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### Release Notification and Corrective Action

#### OPERATOR

Initial Report  Final Report

Name of Company	Aspen Operating Company, LLC	Contact	Michael Wilson
Address	1300 S. University Dr., Suite 200, Ft Worth, 76107	Telephone No.	817-455-2311
Facility Name	State AC Battery	Facility Type	SWD Battery
Surface Owner	Garth Coombes	Mineral Owner	State of NM
		API No.	30-025-03646

#### LOCATION OF RELEASE was at the Battery

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
N	15	10S	36E	660	S	1980	W	LEA

Latitude 33.44249 N Longitude -103.25071 W

#### NATURE OF RELEASE

3/27/15, 12:00 AM.

Type of Release	Produced Water at the Battery	Volume of Release	700 BBLS.	Volume Recovered	655 BBLS
Source of Release	SWD Tank at Batter over flow	Date and Hour of Occurrence		Date and Hour of Discovery	3/27/15
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Donna Mull, 3/27/15, 1:02 PM left mssg./8:00 AM Mark Whitaker 3/27/15 @ 1:27 PM. Left Message.			
By Whom?	Larry Spittler	Date and Hour	3/27/15 @ 1:00 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.\*  
No

**RECEIVED**  
By OCD; Dr. Oberding at 2:24 pm, Mar 30, 2015

Describe Cause of Problem and Remedial Action Taken.\*  
\* The Murphey level switch on the SWD tank failed to activate and start up the injection pump at the SWD facility causing the SWD tank to high level and over flow. The SWD facility does have a SCADA alarm system which also failed in sending out a High Level Alarm to the lease operator. Shut down the wells going to the facility. Called out a SCADA Tech and injection pump Tech to service the equipment. Found and replaced a shorted out electric motor on the injection pump. Murphy Level Switch Repaired.

Describe Area Affected and Cleanup Action Taken.\*  
Tank Battery & Pasture. Called out vacuum truck to vacuum up the standing produced water. Called out a SCADA tech and conducted systems test. Calibrated and reset the SCADA high level alarms. Condcuted a PM on the injection pump to insure the pump is properly working.

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:		<b>OIL CONSERVATION DIVISION</b>	
Printed Name:	Michael Wilson	Hydrologist	Approved by <del>Environmental Specialist:</del>
Title:	Production Manager	Approval Date:	03/30/2015
E-mail Address:	mwilson@aspen-oil.com	Expiration Date:	06/30/2015
Date:	3/30/2015	Phone:	817-455-2311
		Conditions of Approval:	Attached <input type="checkbox"/>
		Site samples required. Delineate and remediate area as per NMOCD guides.	IRP-3588 217598

\* Attach Additional Sheets If Necessary

nTO1508953224  
pTO1508953401

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Initial Report  Final Report

Name of Company: Aspen Operating Company, LLC	Contact: Michael Wilson
Address: 1300 S. University Dr. Ste 200 Ft. Worth, TX 76107	Telephone No. 817-455-2311
Facility Name: State AC #1 SWD	Facility Type: SWD Battery

Surface Owner: Garth Coombes	Mineral Owner: State	API No. 30-025-03646
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#### LOCATION OF RELEASE

Unit Letter N	Section 15	Township 10S	Range 36E	Feet from the 660	North/South Line S	Feet from the 1980	East/West Line W	County Lea
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Latitude 33.44249 Longitude -103.25071

#### NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: 700bbls	Volume Recovered: 655bbls
Source of Release: Tank overflow	Date and Hour of Occurrence:	Date and Hour of Discovery: 3/27/2015
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? OCD voicemail	
By Whom? Larry Spittler	Date and Hour: 3/27/15 @1:00 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 murphy switch and SCADA system at the SWD failed resulting in a tank overflow. They systems that failed were repaired. The tank overflow resulted in the release of approximately 700bbls of produced water within the berms of the tank battery. Vacuum trucks were dispatched to the site to recover standing fluid. Approximately 655bbls of fluid were recovered.

Describe Area Affected and Cleanup Action Taken.\*

Talon/LPE was contracted to perform soil sampling within the impacted area in preparation for drafting a remediation work plan. Upon receipt of analytical data from the sampling even a remediation work plan was drafted and subsequently approved by NMOCD. The remediation was carried out in accordance with the approved work plan and NMOCD stipulations. Remediation of the remaining chloride impacts will be differed until closure of the facility.

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#### OIL CONSERVATION DIVISION

Signature:

Printed Name: Michael Wilson

Title: Production Manager

E-mail Address: mwilson@aspen-oil.com

Date: 3/30/2017

Phone: 817-455-2311

Approved by Environmental Specialist:

Approval Date:

Expiration Date:

Conditions of Approval:

Attached

\* Attach Additional Sheets If Necessary

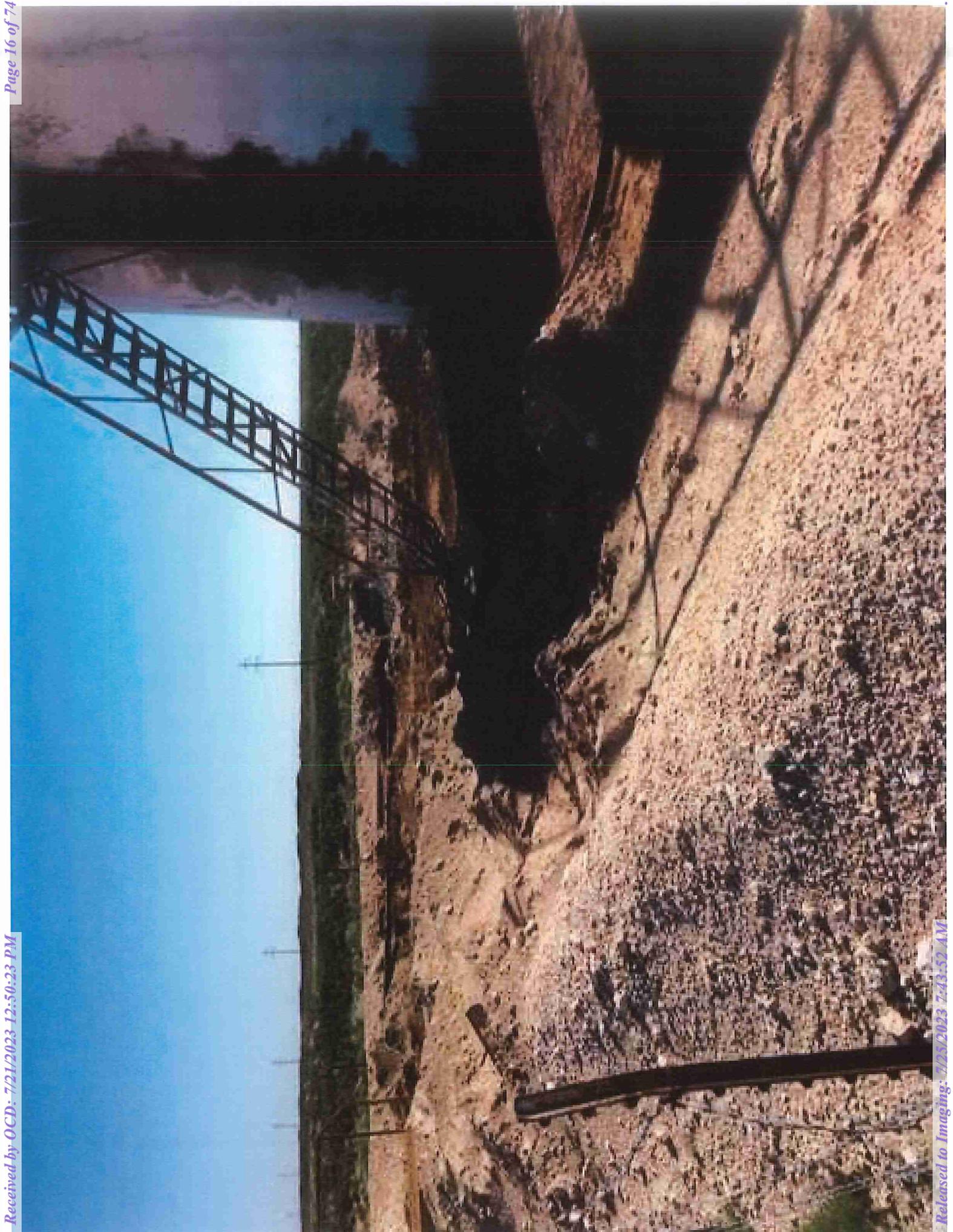
**APPENDIX IV**  
**PHOTOGRAPHIC DOCUMENTATION**  
**33.44249N -103.25071W**

**ASPEN OPERATING CO., L.L.C.**

ARIZONA GAS COMPANY  
C.

T. P. "A" STATE LEASE

UNIT M, SECTION 15, T10S - R36E











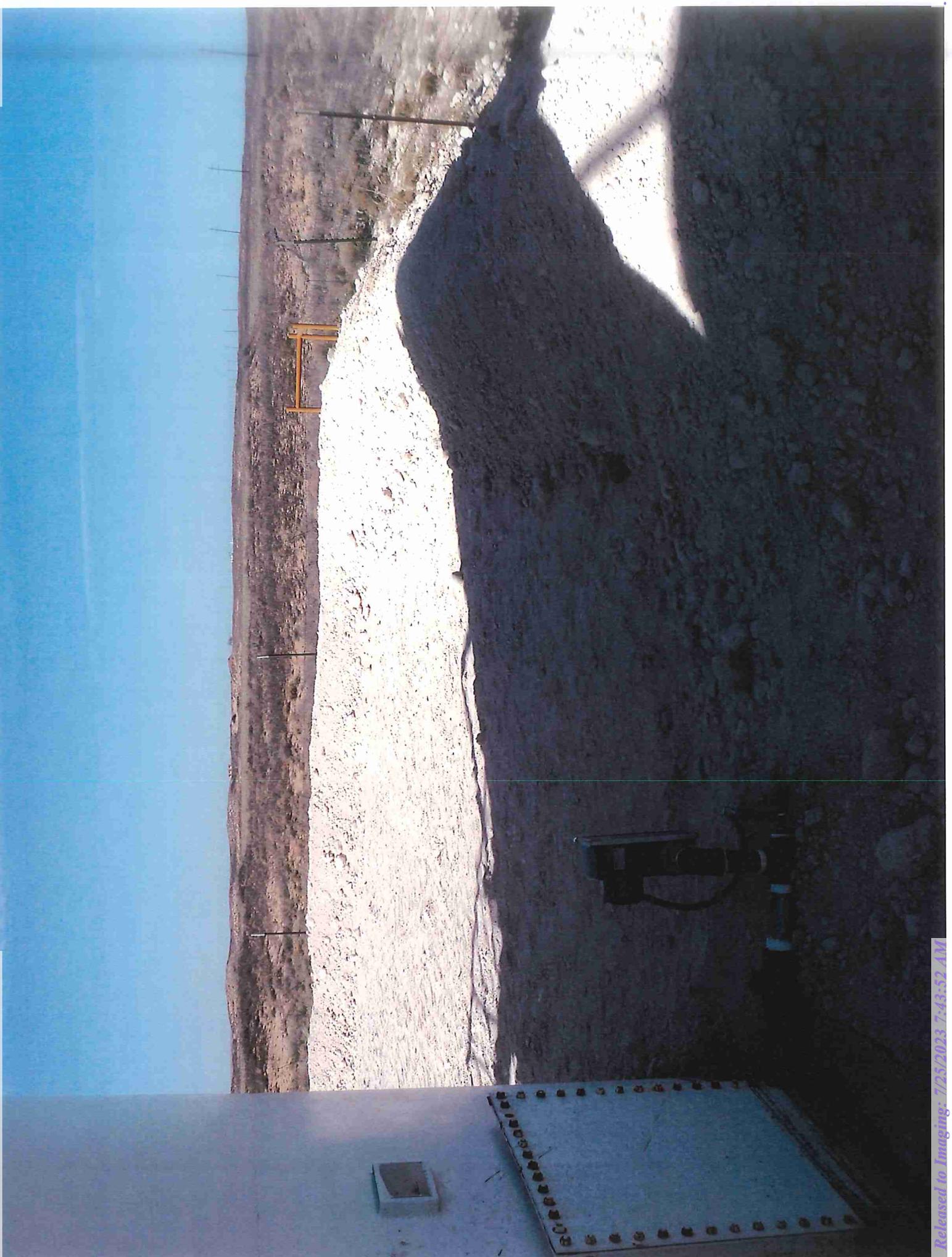






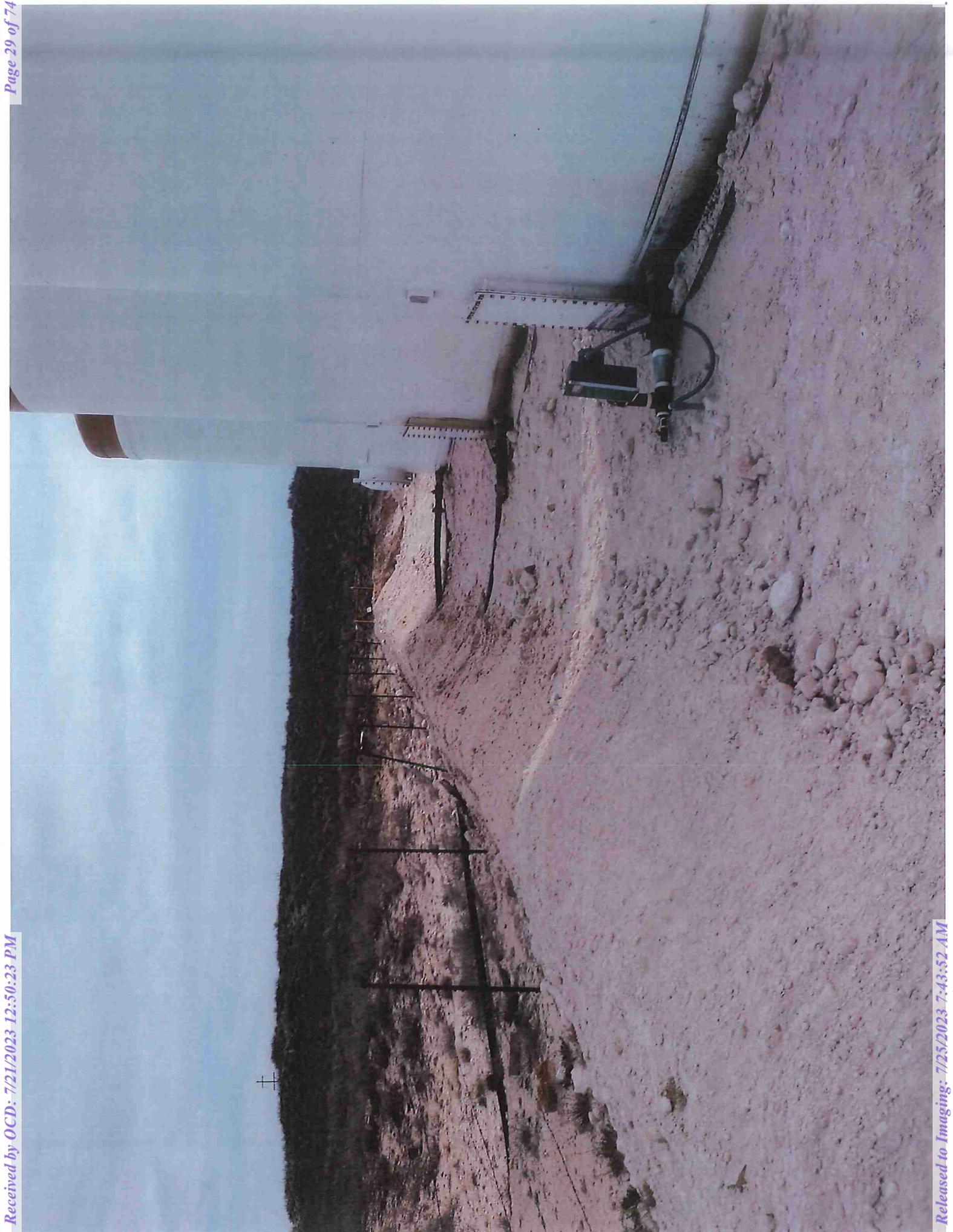


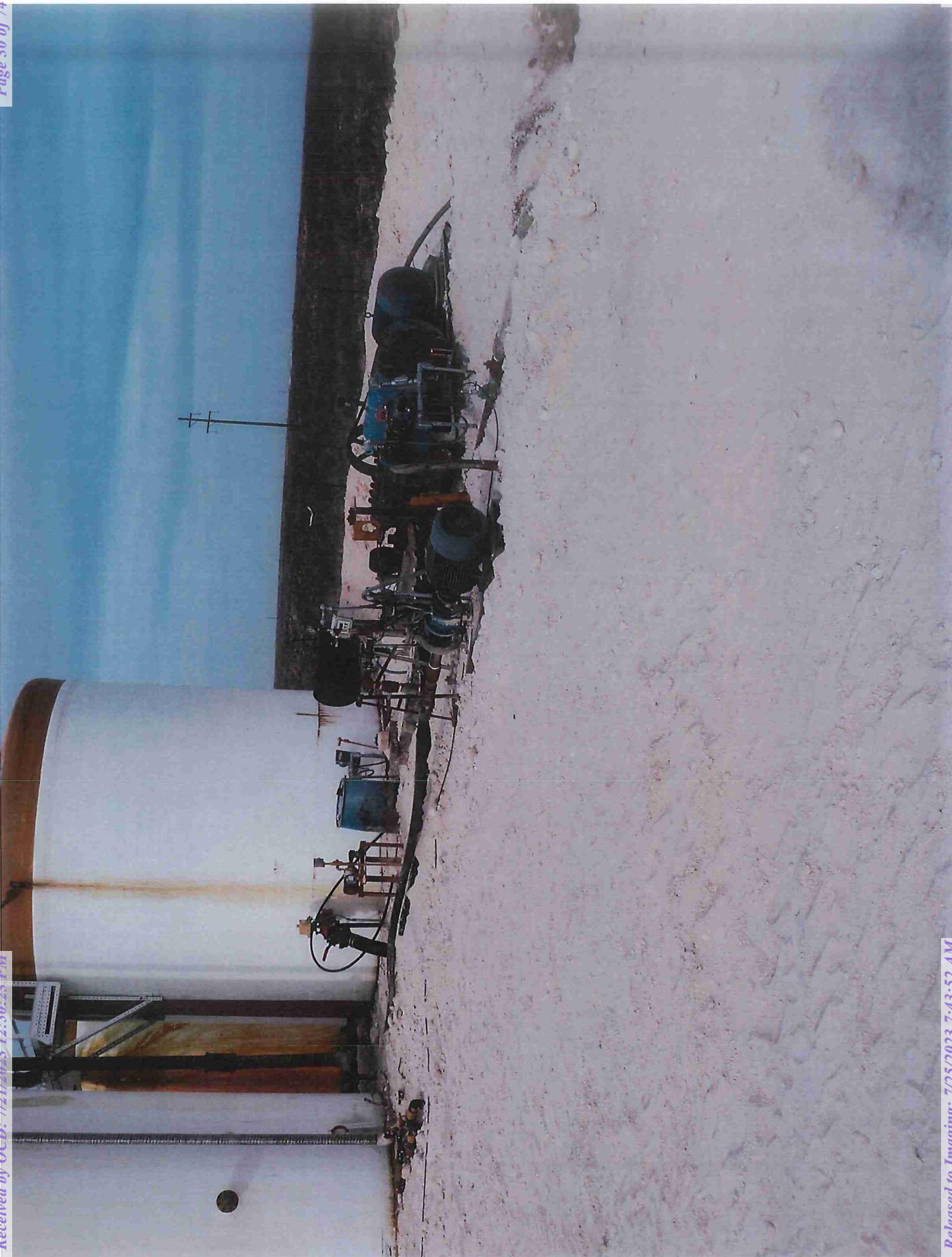
























# APPENDIX V

## LABORATORY RESULTS



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

July 25, 2016

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: T.P.'A' STATE BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 07/20/16 11:06.

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	07/20/2016	Sampling Date:	07/19/2016
Reported:	07/25/2016	Sampling Type:	Soil
Project Name:	T.P.'A' STATE BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701048.011.01	Sample Received By:	Angela Cabrera
Project Location:	NORTH CHAVEZ COUNTY (TATUM)		

**Sample ID: S-1 0' (H601621-01)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.200	0.200	07/21/2016	ND	2.14	107	2.00	0.449		
<b>Toluene*</b>	<b>0.329</b>	0.200	07/21/2016	ND	2.18	109	2.00	0.792		
Ethylbenzene*	<0.200	0.200	07/21/2016	ND	2.10	105	2.00	0.403		
<b>Total Xylenes*</b>	<b>5.99</b>	0.600	07/21/2016	ND	6.31	105	6.00	0.389		
<b>Total BTEX</b>	<b>6.32</b>	1.20	07/21/2016	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 124 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>6880</b>	16.0	07/21/2016	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
<b>GRO C6-C10</b>	<b>445</b>	100	07/20/2016	ND	185	92.6	200	3.78			
<b>DRO &gt;C10-C28</b>	<b>28000</b>	100	07/20/2016	ND	186	92.9	200	9.84			

Surrogate: 1-Chlorooctane 115 % 35-147

Surrogate: 1-Chlorooctadecane 1030 % 28-171

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:**

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

Received:	07/20/2016	Sampling Date:	07/19/2016
Reported:	07/25/2016	Sampling Type:	Soil
Project Name:	T.P.'A' STATE BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701048.011.01	Sample Received By:	Angela Cabrera
Project Location:	NORTH CHAVEZ COUNTY (TATUM)		

**Sample ID: S-1 1' (H601621-02)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.100	0.100	07/21/2016	ND	2.14	107	2.00	0.449		
<b>Toluene*</b>	<b>0.119</b>	0.100	07/21/2016	ND	2.18	109	2.00	0.792		
Ethylbenzene*	<0.100	0.100	07/21/2016	ND	2.10	105	2.00	0.403		
<b>Total Xylenes*</b>	<b>3.78</b>	0.300	07/21/2016	ND	6.31	105	6.00	0.389		
<b>Total BTEX</b>	<b>3.90</b>	0.600	07/21/2016	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 129 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>3360</b>	16.0	07/21/2016	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>197</b>	50.0	07/20/2016	ND	185	92.6	200	3.78		
<b>DRO &gt;C10-C28</b>	<b>4110</b>	50.0	07/20/2016	ND	186	92.9	200	9.84		

Surrogate: 1-Chlorooctane 122 % 35-147

Surrogate: 1-Chlorooctadecane 128 % 28-171

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/20/2016
Reported: 07/25/2016
Project Name: T.P.'A' STATE BATTERY
Project Number: 701048.011.01
Project Location: NORTH CHAVEZ COUNTY (TATUM)
Sampling Date: 07/19/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Angela Cabrera

Sample ID: S-1 2' (H601621-03)

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows include Benzene\*, Toluene\*, Ethylbenzene\*, Total Xylenes\*, and Total BTEX.

Surrogate: 4-Bromofluorobenzene (PIE) 126 % 73.6-140

Table for Chloride, SM4500Cl-B. Columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Row: Chloride 1090, 16.0, 07/21/2016, ND, 416, 104, 400, 0.00.

Table for TPH 8015M. Columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows: GRO C6-C10 217, 50.0, 07/20/2016, ND, 185, 92.6, 200, 3.78; DRO >C10-C28 4600, 50.0, 07/20/2016, ND, 186, 92.9, 200, 9.84.

Surrogate: 1-Chlorooctane 136 % 35-147

Surrogate: 1-Chlorooctadecane 124 % 28-171

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Celest D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/20/2016 Sampling Date: 07/19/2016
Reported: 07/25/2016 Sampling Type: Soil
Project Name: T.P.'A' STATE BATTERY Sampling Condition: Cool & Intact
Project Number: 701048.011.01 Sample Received By: Angela Cabrera
Project Location: NORTH CHAVEZ COUNTY (TATUM)

Sample ID: S-1 3' (H601621-04)

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows include Benzene\*, Toluene\*, Ethylbenzene\*, Total Xylenes\*, and Total BTEX.

Surrogate: 4-Bromofluorobenzene (PIC) 125 % 73.6-140

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Row includes Chloride.

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows include GRO C6-C10 and DRO >C10-C28.

Surrogate: 1-Chlorooctane 147 % 35-147

Surrogate: 1-Chlorooctadecane 135 % 28-171

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Celestine D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/20/2016 Sampling Date: 07/19/2016
Reported: 07/25/2016 Sampling Type: Soil
Project Name: T.P.'A' STATE BATTERY Sampling Condition: Cool & Intact
Project Number: 701048.011.01 Sample Received By: Angela Cabrera
Project Location: NORTH CHAVEZ COUNTY (TATUM)

Sample ID: S-1 4' (H601621-05)

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows include Benzene\*, Toluene\*, Ethylbenzene\*, Total Xylenes\*, Total BTEX.

Surrogate: 4-Bromofluorobenzene (PIL) 107% 73.6-140

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Row: Chloride, SM4500Cl-B

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows: GRO C6-C10, DRO >C10-C28.

Surrogate: 1-Chlorooctane 101% 35-147

Surrogate: 1-Chlorooctadecane 102% 28-171

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Celestine D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	07/20/2016	Sampling Date:	07/19/2016
Reported:	07/25/2016	Sampling Type:	Soil
Project Name:	T.P.'A' STATE BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701048.011.01	Sample Received By:	Angela Cabrera
Project Location:	NORTH CHAVEZ COUNTY (TATUM)		

**Sample ID: S-2 0' (H601621-06)**

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	07/21/2016	ND	2.14	107	2.00	0.449		
Toluene*	<0.050	0.050	07/21/2016	ND	2.18	109	2.00	0.792		
Ethylbenzene*	<0.050	0.050	07/21/2016	ND	2.10	105	2.00	0.403		
Total Xylenes*	<0.150	0.150	07/21/2016	ND	6.31	105	6.00	0.389		
Total BTEX	<0.300	0.300	07/21/2016	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 100 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	26800	16.0	07/21/2016	ND	416	104	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	<50.0	50.0	07/20/2016	ND	185	92.6	200	3.78		
DRO >C10-C28	3120	50.0	07/20/2016	ND	186	92.9	200	9.84		

Surrogate: 1-Chlorooctane 86.7 % 35-147

Surrogate: 1-Chlorooctadecane 149 % 28-171

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Analytical Results For:

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

Received: 07/20/2016 Sampling Date: 07/19/2016
Reported: 07/25/2016 Sampling Type: Soil
Project Name: T.P.'A' STATE BATTERY Sampling Condition: Cool & Intact
Project Number: 701048.011.01 Sample Received By: Angela Cabrera
Project Location: NORTH CHAVEZ COUNTY (TATUM)

Sample ID: S-2 1' (H601621-07)

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows include Benzene\*, Toluene\*, Ethylbenzene\*, Total Xylenes\*, and Total BTEX.

Surrogate: 4-Bromofluorobenzene (PIL) 122 % 73.6-140

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Row includes Chloride.

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows include GRO C6-C10 and DRO >C10-C28.

Surrogate: 1-Chlorooctane 98.5 % 35-147

Surrogate: 1-Chlorooctadecane 134 % 28-171

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Celestine D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	07/20/2016	Sampling Date:	07/19/2016
Reported:	07/25/2016	Sampling Type:	Soil
Project Name:	T.P.'A' STATE BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701048.011.01	Sample Received By:	Angela Cabrera
Project Location:	NORTH CHAVEZ COUNTY (TATUM)		

**Sample ID: S-2 2' (H601621-08)**

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	07/21/2016	ND	2.14	107	2.00	0.449		
Toluene*	<0.050	0.050	07/21/2016	ND	2.18	109	2.00	0.792		
Ethylbenzene*	<0.050	0.050	07/21/2016	ND	2.10	105	2.00	0.403		
Total Xylenes*	<0.150	0.150	07/21/2016	ND	6.31	105	6.00	0.389		
Total BTEX	<0.300	0.300	07/21/2016	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 104 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4560	16.0	07/21/2016	ND	416	104	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	07/20/2016	ND	185	92.6	200	3.78		
DRO >C10-C28	83.6	10.0	07/20/2016	ND	186	92.9	200	9.84		

Surrogate: 1-Chlorooctane 88.7 % 35-147

Surrogate: 1-Chlorooctadecane 89.6 % 28-171

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Analytical Results For:

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

Received: 07/20/2016 Sampling Date: 07/19/2016
Reported: 07/25/2016 Sampling Type: Soil
Project Name: T.P.'A' STATE BATTERY Sampling Condition: Cool & Intact
Project Number: 701048.011.01 Sample Received By: Angela Cabrera
Project Location: NORTH CHAVEZ COUNTY (TATUM)

Sample ID: S-2 3' (H601621-09)

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows include Benzene\*, Toluene\*, Ethylbenzene\*, Total Xylenes\*, Total BTEX.

Surrogate: 4-Bromofluorobenzene (PIE) 103 % 73.6-140

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Row includes Chloride.

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows include GRO C6-C10, DRO >C10-C28.

Surrogate: 1-Chlorooctane 85.1 % 35-147

Surrogate: 1-Chlorooctadecane 88.7 % 28-171

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/20/2016 Sampling Date: 07/19/2016
Reported: 07/25/2016 Sampling Type: Soil
Project Name: T.P.'A' STATE BATTERY Sampling Condition: Cool & Intact
Project Number: 701048.011.01 Sample Received By: Angela Cabrera
Project Location: NORTH CHAVEZ COUNTY (TATUM)

Sample ID: S-2 4' (H601621-10)

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows include Benzene\*, Toluene\*, Ethylbenzene\*, Total Xylenes\*, Total BTEX.

Surrogate: 4-Bromofluorobenzene (PIE) 103 % 73.6-140

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Row includes Chloride.

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows include GRO C6-C10, DRO >C10-C28.

Surrogate: 1-Chlorooctane 89.2 % 35-147

Surrogate: 1-Chlorooctadecane 87.8 % 28-171

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/20/2016 Sampling Date: 07/19/2016
Reported: 07/25/2016 Sampling Type: Soil
Project Name: T.P.'A' STATE BATTERY Sampling Condition: Cool & Intact
Project Number: 701048.011.01 Sample Received By: Angela Cabrera
Project Location: NORTH CHAVEZ COUNTY (TATUM)

Sample ID: S-3 0' (H601621-11)

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows include Benzene\*, Toluene\*, Ethylbenzene\*, Total Xylenes\*, and Total BTEX.

Surrogate: 4-Bromofluorobenzene (PIE) 105 % 73.6-140

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Row includes Chloride.

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows include GRO C6-C10 and DRO >C10-C28.

Surrogate: 1-Chlorooctane 84.3 % 35-147

Surrogate: 1-Chlorooctadecane 104 % 28-171

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Celestine D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	07/20/2016	Sampling Date:	07/19/2016
Reported:	07/25/2016	Sampling Type:	Soil
Project Name:	T.P.'A' STATE BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701048.011.01	Sample Received By:	Angela Cabrera
Project Location:	NORTH CHAVEZ COUNTY (TATUM)		

**Sample ID: S-3 1' (H601621-12)**

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	07/21/2016	ND	2.14	107	2.00	0.449		
Toluene*	<0.050	0.050	07/21/2016	ND	2.18	109	2.00	0.792		
Ethylbenzene*	<0.050	0.050	07/21/2016	ND	2.10	105	2.00	0.403		
Total Xylenes*	<0.150	0.150	07/21/2016	ND	6.31	105	6.00	0.389		
Total BTEX	<0.300	0.300	07/21/2016	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 101 % 73.6-140

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	07/21/2016	ND	416	104	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	<50.0	50.0	07/20/2016	ND	185	92.6	200	3.78		
DRO >C10-C28	196	50.0	07/20/2016	ND	186	92.9	200	9.84		

Surrogate: 1-Chlorooctane 94.1 % 35-147

Surrogate: 1-Chlorooctadecane 107 % 28-171

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Analytical Results For:

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

Received: 07/20/2016 Sampling Date: 07/19/2016
Reported: 07/25/2016 Sampling Type: Soil
Project Name: T.P.'A' STATE BATTERY Sampling Condition: Cool & Intact
Project Number: 701048.011.01 Sample Received By: Angela Cabrera
Project Location: NORTH CHAVEZ COUNTY (TATUM)

Sample ID: S-3 2' (H601621-13)

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows include Benzene\*, Toluene\*, Ethylbenzene\*, Total Xylenes\*, Total BTEX.

Surrogate: 4-Bromofluorobenzene (PIE) 101 % 73.6-140

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Row includes Chloride.

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows include GRO C6-C10, DRO >C10-C28.

Surrogate: 1-Chlorooctane 86.7 % 35-147

Surrogate: 1-Chlorooctadecane 96.9 % 28-171

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/20/2016
Reported: 07/25/2016
Project Name: T.P.'A' STATE BATTERY
Project Number: 701048.011.01
Project Location: NORTH CHAVEZ COUNTY (TATUM)
Sampling Date: 07/19/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Angela Cabrera

Sample ID: S-3 3' (H601621-14)

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows include Benzene\*, Toluene\*, Ethylbenzene\*, Total Xylenes\*, Total BTEX.

Surrogate: 4-Bromofluorobenzene (PIE) 102% 73.6-140

Table for Chloride, SM4500Cl-B. Columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Row: Chloride 48.0, 16.0, 07/21/2016, ND, 416, 104, 400, 0.00.

Table for TPH 8015M. Columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows: GRO C6-C10, DRO >C10-C28.

Surrogate: 1-Chlorooctane 88.4% 35-147

Surrogate: 1-Chlorooctadecane 100% 28-171

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	07/20/2016	Sampling Date:	07/19/2016
Reported:	07/25/2016	Sampling Type:	Soil
Project Name:	T.P.'A' STATE BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701048.011.01	Sample Received By:	Angela Cabrera
Project Location:	NORTH CHAVEZ COUNTY (TATUM)		

**Sample ID: BG 1' (H601621-15)**

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	07/21/2016	ND	2.14	107	2.00	0.449		
Toluene*	<0.050	0.050	07/21/2016	ND	2.18	109	2.00	0.792		
Ethylbenzene*	<0.050	0.050	07/21/2016	ND	2.10	105	2.00	0.403		
Total Xylenes*	<0.150	0.150	07/21/2016	ND	6.31	105	6.00	0.389		
Total BTEX	<0.300	0.300	07/21/2016	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 102 % 73.6-140

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	07/21/2016	ND	416	104	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	07/20/2016	ND	185	92.6	200	3.78		
DRO >C10-C28	<10.0	10.0	07/20/2016	ND	186	92.9	200	9.84		

Surrogate: 1-Chlorooctane 93.0 % 35-147

Surrogate: 1-Chlorooctadecane 100 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- 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*

Celey D. Keene, Lab Director/Quality Manager

# CARDINAL LABORATORIES

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

ANALYSIS REQUEST

Company Name: Talon/LPE		P.O. #: 761048.011.01	
Project Manager: David Atkins		Company: Talon/LPE	
Address: 408 W. Texas Ave.		Attn: David Atkins	
City: Atesia	State: NM Zip: 88210	Address:	
Phone #: 575-746-8768	Fax #: 575-746-8905	City:	
Project #: 761048.011.01	Project Owner: Aspen Operating	State: Zip:	
Project Name: T.P.A. State Battery	Project Location: T.P.A. State Battery (TASUM)	Phone #:	
Sample Name: Robbie De Jesus	FOR LAB USE ONLY	Fax #:	

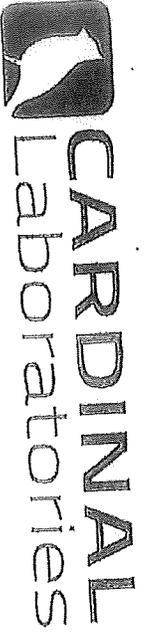
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	TPM	BTEX	Chlorides
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
5-10'		G	1							7-19-16	10:45			
1'		G	1								10:48			
2'		G	1								10:51			
3'		G	1								10:53			
4'		G	1								10:56			
5-20'		G	1								11:03			
1'		G	1								11:06			
2'		G	1								11:09			
3'		G	1								11:12			
4'		G	1								11:16			

Relinquished By: [Signature]	Date: 7/20/16	Received By: [Signature]	Date: 7/20/16
Relinquished By: [Signature]	Time: 2:10	Received By: [Signature]	Time: 2:10

Delivered By: (Circle One)	Sample Condition	CHECKED BY: [Signature]
Sampler - UPS - Bns - Other:	Cool <input type="checkbox"/> Intact <input checked="" type="checkbox"/>	Initials: [Signature]
	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: Talon/PE  
 Project Manager: David Akins  
 Address: 408 W. Texas Ave. State: NM Zip: 88210  
 City: Atesia  
 Phone #: 575-746-8768 Fax #: 575-746-8905  
 Project #: 761048.011.01 Project Owner: Aspen Operating  
 Project Name: T.P. A. State Battery  
 Project Location: North Platte, (Rough Terrain)  
 Sample Name: Robbie Bakker  
 FOR LAB USE ONLY

P.O. #: 761048.011.01  
 Company: Talon/PE  
 Attn: David Akins  
 Address:  
 City:  
 State:  
 Zip:

Lab I.D.	Sample I.D.	(#)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	ANALYSIS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:			
5-3-01		✓	1			✓					7-19-16	11:22	TPH
11		✓	1			✓						11:25	BTEX
12		✓	1			✓						11:31	Chlorides
13		✓	1			✓						11:33	
14		✓	1			✓						11:36	
15		✓	1			✓							

Relinquished By: [Signature]  
 Date: 7/19/16  
 Received By: [Signature]  
 Date: 7/19/16

Delivered By: (Circle One)  
 Sampler - UPS - Bus - Other: 2.76

Remarks: [Handwritten notes]

# Analytical Report 535942

for  
**Talon LPE**

**Project Manager: David Adkins**

**Aspen TP State AC #1**

**701048.011.07**

**01-SEP-16**

Collected By: Client



**1211 W. Florida Ave, Midland TX 79701**

Xenco-Houston (EPA Lab code: TX00122):  
Texas (T104704215), Arizona (AZ0765), Florida (E871002), Louisiana (03054)  
Oklahoma (9218)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295)  
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400)  
Xenco-San Antonio: Texas (T104704534)  
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)  
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)



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01-SEP-16

Project Manager: **David Adkins**

**Talon LPE**

408 W. Texas St.

Artesia, NM 88210

Reference: XENCO Report No(s): **535942**

**Aspen TP State AC #1**

Project Address: Lea County, New Mexico

**David Adkins:**

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 535942. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 535942 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

**Kelsey Brooks**

Project Manager

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### Sample Cross Reference 535942



#### Talon LPE, Artesia, NM

Aspen TP State AC #1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
S-1	S	08-25-16 00:00	- 5 ft	535942-001
S-2	S	08-25-16 00:00	- 5 ft	535942-002
S-2	S	08-25-16 00:00	- 7 ft	535942-003
S-4	S	08-25-16 00:00	- 0 ft	535942-004
S-4	S	08-25-16 00:00	- 3 ft	535942-005
S-4	S	08-25-16 00:00	- 5 ft	535942-006



CASE NARRATIVE



*Client Name: Talon LPE*  
*Project Name: Aspen TP State AC #1*

Project ID: 701048.011.07  
Work Order Number(s): 535942

Report Date: 01-SEP-16  
Date Received: 08/30/2016

---

**Sample receipt non conformances and comments:**

---

**Sample receipt non conformances and comments per sample:**

None



# Certificate of Analysis Summary 535942

Talon LPE, Artesia, NM

Project Name: Aspen TP State AC #1

Project Id: 701048.011.07

Contact: David Adkins

Project Location: Lea County, New Mexico

Date Received in Lab: Tue Aug-30-16 02:26 pm

Report Date: 01-SEP-16

Project Manager: Kelsey Brooks



<i>Analysis Requested</i>		<i>Lab Id:</i>	535942-001	535942-002	535942-003	535942-004	535942-005	535942-006
<i>Inorganic Anions by EPA 300/300.1</i>		<i>Field Id:</i>	S-1	S-2	S-2	S-4	S-4	S-4
		<i>Depth:</i>	5 ft	5 ft	7 ft	0 ft	3 ft	5 ft
		<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		<i>Sampled:</i>	Aug-25-16 00:00					
		<i>Extracted:</i>	Aug-31-16 10:00					
		<i>Analyzed:</i>	Aug-31-16 14:55	Aug-31-16 15:03	Aug-31-16 15:11	Aug-31-16 15:19	Aug-31-16 15:57	Aug-31-16 16:05
		<i>Units/RL:</i>	mg/kg RL					
Chloride			294	73.2	880	28.9	13.5	13.0
			10.0	10.0	10.0	10.0	10.0	10.0

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Kelsey Brooks  
Project Manager



# Flagging Criteria



- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

\*\* Surrogate recovered outside laboratory control limit.

**BRL** Below Reporting Limit.

**RL** Reporting Limit

**MDL** Method Detection Limit      **SDL** Sample Detection Limit      **LOD** Limit of Detection

**PQL** Practical Quantitation Limit      **MQL** Method Quantitation Limit      **LOQ** Limit of Quantitation

**DL** Method Detection Limit

**NC** Non-Calculable

+ NELAC certification not offered for this compound.

\* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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 1211 W Florida Ave, Midland, TX 79701  
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(214) 902 0300	(214) 351-9139
(210) 509-3334	(210) 509-3335
(432) 563-1800	(432) 563-1713
(602) 437-0330	



# BS / BSD Recoveries

Project Name: Aspen TP State AC #1



Work Order #: 535942

Project ID: 701048.011.07

Analyst: MNR

Date Prepared: 08/31/2016

Date Analyzed: 08/31/2016

Lab Batch ID: 1000983

Sample: 713246-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

## BLANK/BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Analytes	Blank Sample Result [A]		Spike Added [B]		Blank Spike Result [C]		Blank Spike %R [D]		Spike Added [E]		Blank Spike Duplicate Result [F]		Blk. Spk Dup. %R [G]		RPD %		Control Limits %R		Control Limits %RPD		Flag	
Chloride	<10.0		250		252		101		250		249		100		1		90-110		20			

Relative Percent Difference  $RPD = 200 * (C-F) / (C+F)$   
 Blank Spike Recovery  $[D] = 100 * (C) / [B]$   
 Blank Spike Duplicate Recovery  $[G] = 100 * (F) / [E]$   
 All results are based on MDL and Validated for QC Purposes



Work Order #: 535942

Project ID: 701048.011.07

Lab Batch ID: 1000983

QC-Sample ID: 534921-009 S

Batch #: 1 Matrix: Soil

Date Analyzed: 08/31/2016

Date Prepared: 08/31/2016

Analyst: MNR

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1		Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride		54.7	250	292	95	250	295	96	1	90-110	20	

Lab Batch ID: 1000983

QC-Sample ID: 535942-004 S

Batch #: 1 Matrix: Soil

Date Analyzed: 08/31/2016

Date Prepared: 08/31/2016

Analyst: MNR

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1		Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride		28.9	250	266	95	250	268	96	1	90-110	20	

Matrix Spike Percent Recovery [D] = 100\*(C-A)/B  
Relative Percent Difference RPD = 200\*(C-F)/(C+F)

Matrix Spike Duplicate Percent Recovery [G] = 100\*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable  
N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.



ORIGIN ID: H08RT (578) 9271230  
MAIL SERVICES ETC, L.C.  
4005 N GRIMES  
HOBBBS, NM 98240  
UNITED STATES US

ACTING: 15 08RUG16  
USD: 0909329, LS 30N  
DIMS: 14X11X9 IN  
BILL RECIPIENT

XENCO LABORATORIES  
XENCO LABORATORIES  
1211 W FLORIDA AVE

MIDLAND, TX 79701



1 of 2  
TRK# 6606 3912 3929  
MM MASTER MM

MAED - 31 AUG 10:30A  
PRIORITY OVERNIGHT

41 MAFA

79701  
TX-US LBB



# XENCO Laboratories

## Prelogin/Nonconformance Report- Sample Log-In



Client: Talon LPE

Date/ Time Received: 08/30/2016 02:26:00 PM

Work Order #: 535942

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	28
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes Ice had melted
#4 *Custody Seal present on shipping container/ cooler?	No
#5 *Custody Seals intact on shipping container/ cooler?	No
#6 Custody Seals intact on sample bottles?	No
#7 *Custody Seals Signed and dated?	No
#8 *Chain of Custody present?	Yes
#9 Sample instructions complete on Chain of Custody?	Yes
#10 Any missing/extra samples?	No
#11 Chain of Custody signed when relinquished/ received?	Yes
#12 Chain of Custody agrees with sample label(s)?	Yes
#13 Container label(s) legible and intact?	Yes
#14 Sample matrix/ properties agree with Chain of Custody?	Yes
#15 Samples in proper container/ bottle?	Yes
#16 Samples properly preserved?	Yes
#17 Sample container(s) intact?	Yes
#18 Sufficient sample amount for indicated test(s)?	Yes
#19 All samples received within hold time?	Yes
#20 Subcontract of sample(s)?	No
#21 VOC samples have zero headspace (less than 1/4 inch bubble)?	N/A
#22 <2 for all samples preserved with HNO3,HCL, H2SO4? Except for samples for the analysis of HEM or HEM-SGT which are verified by the analysts.	N/A
#23 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+NaOH?	N/A

\* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by: Carley Owens Date: 08/31/2016  
 Carley Owens

Checklist reviewed by: Kelsey Brooks Date: 08/31/2016  
 Kelsey Brooks



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

March 20, 2017

KIMBERLY WILSON

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: AC STATE #1 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 03/17/17 13:45.

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

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Received: 03/17/2017 Sampling Date: 02/18/2017
Reported: 03/20/2017 Sampling Type: Soil
Project Name: AC STATE #1 BATTERY Sampling Condition: \*\* (See Notes)
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker
Project Location: ASPEN / CHAVES CO

Sample ID: EAST SIDEWALL (H700705-01)

Table with 11 columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Row for Chloride shows result 800 mg/kg.

Sample ID: WEST SIDEWALL (H700705-02)

Table with 11 columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Row for Chloride shows result 880 mg/kg.

Sample ID: S-2 4' BOTTOM (H700705-03)

Table with 11 columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Row for Chloride shows result 6000 mg/kg.

Sample ID: NORTH SIDEWALL (H700705-04)

Table with 11 columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Row for Chloride shows result 1020 mg/kg.

Cardinal Laboratories

\*=Accredited Analyte

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Signature of Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/17/2017	Sampling Date:	02/18/2017
Reported:	03/20/2017	Sampling Type:	Soil
Project Name:	AC STATE #1 BATTERY	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	ASPEN / CHAVES CO		

**Sample ID: SOUTH SIDEWALL (H700705-05)**

Chloride, SM4500Cl-B	mg/kg	Analyzed By: AC								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2000	16.0	03/17/2017	ND	416	104	400	3.77	QM-07, QR-03	

**Sample ID: S-1 4' BOTTOM (H700705-06)**

Chloride, SM4500Cl-B	mg/kg	Analyzed By: AC								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2320	16.0	03/17/2017	ND	416	104	400	3.77		

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- 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

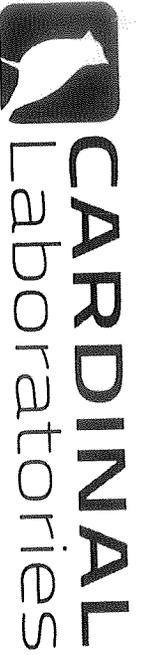
Cardinal Laboratories

\*=Accredited Analyte

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*Celey D. Keene*

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

**BILL TO**

**ANALYSIS REQUEST**

Company Name: Talson/LLP

Project Manager: Kimberly Wilson

Address: 408 W. Texas

City: Arbovia

Phone #:

Project #:

Project Name: Mc State #1 Battery

Project Location: Chavez City

Sampler Name: Kim Wilson

P.O. #:

Company: Talson

Attn:

Address:

City:

State:

Phone #:

Fax #:

Matrix:

Preserv:

Sampling:

(G)RAB OR (C)OMP.

# CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

Chlorides

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**District I**  
 1625 N. French Dr., Hobbs, NM 88240  
 Phone:(575) 393-6161 Fax:(575) 393-0720

**District II**  
 811 S. First St., Artesia, NM 88210  
 Phone:(575) 748-1283 Fax:(575) 748-9720

**District III**  
 1000 Rio Brazos Rd., Aztec, NM 87410  
 Phone:(505) 334-6178 Fax:(505) 334-6170

**District IV**  
 1220 S. St Francis Dr., Santa Fe, NM 87505  
 Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

CONDITIONS

Action 243194

**CONDITIONS**

Operator: ASPEN OPERATING COMPANY LLC 6777 Camp Bowie Blvd. Fort Worth, TX 76116	OGRID: 217598
	Action Number: 243194
	Action Type: [C-141] Release Corrective Action (C-141)

**CONDITIONS**

Created By	Condition	Condition Date
amaxwell	Closure approved. Historical documentation provided showing closure meets 1993 Guidelines for Remediation of Leaks, Spills, and Releases.	7/25/2023