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By JKeyes at 12:32 pm, Apr 25, 2016

APPROVED

talonlpe.com • 866.742.0742



Closure Report

Pyote Well Service, LLC: A N ETZ #001

[30-025-07713|1RP-3415|

April 21, 2016

Prepared By:

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

Prepared For:

Pyote Well Service, LLC

Mr. Jamie Keyes
NMOCD District 1
1625 N. French Drive
Hobbs, NM 88240

Subject: **Remediation Activities and Closure Report**
Pyote Well Service
A N ETZ #001 (30-025-07713) *1RP-3415*

Dear Mr. Keyes,

Pyote Well Service, LLC (Pyote) has contracted Talon/LPE (Talon) to perform soil sampling and remediation services at the above referenced location. The incident description, soil sampling results, remediation activities and closure request are submitted herein

Site Information

The Pyote A N ETZ #001 is located approximately six (6) miles south of Hobbs, New Mexico. The legal location for this facility is Unit Letter P, Section 26, Township 19 South and Range 38 East in Lea County, New Mexico. More specifically the latitude and longitude are 32.6257858 North and -103.112793 West. A site plan is presented in [Appendix I](#).

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service, the soil in this area is made up of Stegall loam with 0 to 1 percent slopes. Drainage courses in this area are normally dry.

Ground Water and Site Ranking

According to the New Mexico Office of the State Engineer database, the ground water in this area is approximately 64-feet below ground surface (BGS) The referenced ground water data is presented in [Appendix II](#). Therefore the ranking for this site is a **10** based on the following:

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

Based upon the site ranking of **10**, NMOCD Recommended Remedial Action Levels (RRAL) are 50 mg/kg for BTEX, 10 mg/kg for Benzene, 1,000 mg/kg for TPH and 500 mg/kg for total chlorides.

Incident Description and Initial Remedial Actions

On November 1, 2014 the tee and nipple on the injection well head failed resulting in the release of approximately 300bbls of produced water. The produced water flowed from the well head southeast across the well pad and into the low lying area south of the well pad. On January 7, 2014 Talon mobilized personnel to conduct an initial site assessment and soil sampling within the impacted area utilizing a hand auger. Refusal was encountered at a depth of 1-foot BGS with the hand auger.

On March 4, 2015 Talon mobilized personnel and equipment to vertically and horizontally delineate the impacted area utilizing an excavator. As described in the approved revised work plan, additional soil sampling was conducted during the remediation process (on April 11, 2016). Further vertical delineation was conducted at sample location S-2 to obtain soil chloride concentrations less than 250 mg/kg. Soil samples were also taken at sample location S-3 at depths of 10-feet and 15-feet BGS (per NMOCD stipulation) to insure that there was no vertical migration of chloride impacts. Analytical results from the soil sampling activities are summarized in the tables below. See [Appendix V](#) for complete report of laboratory results.

Laboratory Results

See [Appendix V](#) for complete report of laboratory results.

January 7, 2014

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH(mg/kg) GRO	TPH(mg/kg) DRO
S-1	0	ND	8260	ND	4030
S-1 Refusal	1	ND	10500	11.5	222
S-2	0	ND	496	ND	ND
S-2 Refusal	1	ND	2160	ND	ND
S-3	0	ND	10700	ND	ND
S-3 Refusal	1	ND	6930	ND	ND

(ND) Analyte Not Detected

March 4, 2015

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-1	0	ND	6000	ND	ND
S-1	1	--	6530	--	--
S-1	2	--	8660	--	--
S-1	3	--	3760	--	--
S-1	4	--	608	--	--
S-1	5	--	80	--	--
S-2	0	ND	1280	ND	ND
S-2	1	--	1960	--	--
S-2	2	--	4160	--	--

March 4, 2015 Continued

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-2	3	--	4720	--	--
S-2	4	ND	4560	ND	ND
S-2	5	--	3760	--	--
S-2	7	ND	4400	--	--
S-2	9	ND	3920	--	--
S-2	11	--	1260	--	--
S-2	13	--	928	--	--
S-2	15	--	512	--	--
S-2	17	--	368	--	--
S-3	0	ND	112	ND	ND
S-3	1	--	64	--	--
S-3	2	--	160	--	--
S-3	3	--	448	--	--
S-3	4	--	448	--	--
S-3	5	--	112	--	--
S-4	0	ND	ND	ND	ND
S-5	0	ND	ND	ND	ND
S-6	0	ND	ND	ND	ND

(--) Analyte Not Tested

(ND) Analyte Not Detected

April 11, 2016

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-2	20	--	560	--	--
S-2	22	--	ND	--	--
S-3	10	--	ND	--	--
S-3	15	--	ND	--	--

(--) Analyte Not Tested

(ND) Analyte Not Detected

Conclusions and Remedial Actions Taken

- The impacted area on location in the vicinity of sample location S-1 was excavated to a depth of 4-feet BGS.
- The impacted area in the vicinity of sample location S-2 was excavated to a depth of 4-feet BGS utilizing an excavator. The excavation was benched and the excavator was walked to the bottom of the excavation. Vertical chloride delineation sampling was advanced from this point to a total depth of 22-feet BGS. The test pit was then backfilled. A 20-mil reinforced liner was installed at the bottom of the excavation to encapsulate the remaining chloride impacts at a depth of 4-feet BGS.
- Per NMOCD stipulations soil samples were collected at sample location S-3 at depths of 10-feet and 15-feet BGS and analyzed for total chlorides. Laboratory analysis indicated that no vertical migration of chlorides in this area had taken place.
- All of the excavated material was hauled to an NMOCD approved solid waste disposal facility.
- The excavated area on location was backfilled with caliche. Earthen berms were constructed around the well head and on the down gradient perimeter of the location to prevent movement of fluids should a future release occur. The excavated area in the pasture was backfilled with top soil and contoured to match the surrounding terrain.

Closure

On behalf of Pyote Well Service, LLC we respectfully request that no further actions be required and that closure with regard to this release be granted.

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

Respectfully submitted,
TALON/LPE



Sheldon Hitchcock
Project Manager
Attachments

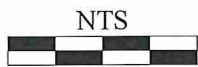
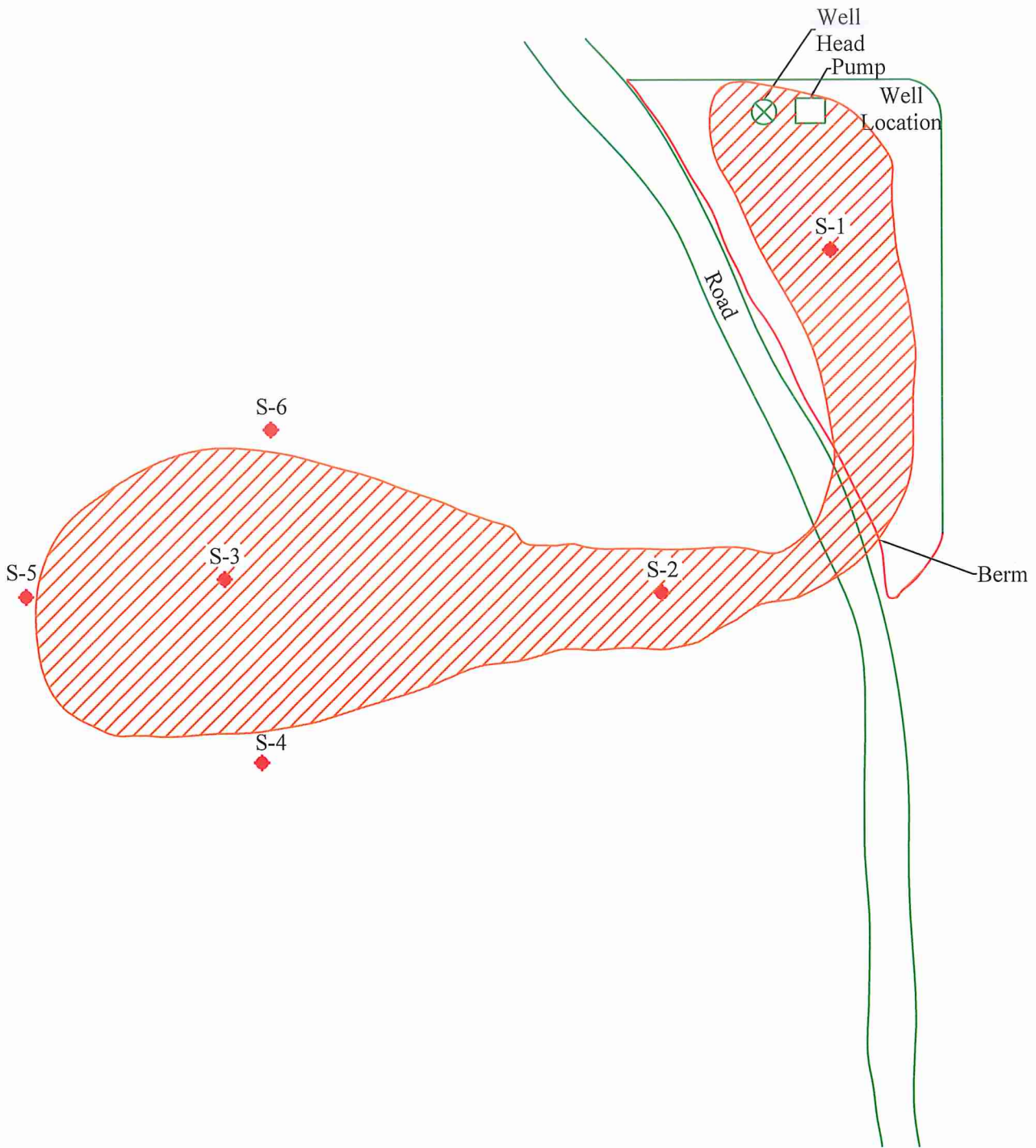


David J. Adkins
District Manager

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

APPENDIX I

SITE PLAN



Scale in Feet

Legend

- ◆
- Sample Location
- Impacted Area



Date: 03/14/2016
 Scale: NTS
 Drawn By: TJS

ETZ SWD
 Pyote Water Solutions
 Lea County, New Mexico
 Figure 1 - Site Plan

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	Water Column
L 00298 POD5	L	LE		3	3	3	25	19S	38E	677345	3611275*	315	112	64	48

Average Depth to Water: **64 feet**

Minimum Depth: **64 feet**

Maximum Depth: **64 feet**

Record Count: 1

Basin/County Search:

County: Lea

UTMNAD83 Radius Search (in meters):

Easting (X): 677044

Northing (Y): 3611369

Radius: 320

*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 III
INITIAL C-141
&
FINAL C-141

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

Form C-141
Revised August 8, 2011

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

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— <i>PYOTE WATER SOLUTIONS, LLC</i>	Contact ---- <i>JERRY BURTON</i>
Address <i>400 W ILLINOIS, STE 950 MIDLAND TX, 79701</i>	Telephone No. <i>432-448-4917</i>
Facility Name <i>ETZ SWD</i> <i>IRP-3415</i>	Facility Type <i>PRODUCTION WATER DISPOSAL</i>

Surface Owner— <i>PYOTE WATER SOLUTIONS</i>	Mineral Owner <i>PYOTE WATER SOLUTIONS</i>	API No. <i>30-025-07713</i>
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line <i>SOUTH OF WELL</i>	Feet from the	East/West Line	County <i>LEA COUNTY</i>
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Latitude *32.6275679.101018* *103.112804363809* Longitude _____

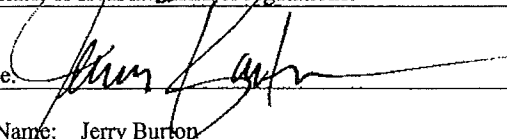
NATURE OF RELEASE

Type of Release: <i>wellhead busted T and nipple</i>	Volume of Release <i>300 bbls</i>	Volume Recovered
Source of Release: <i>production water</i>	Date and Hour of Occurrence <i>11-1-17 8:40 am</i>	Date and Hour of Discovery <i>11-1-17 8:40 am</i>
Was Immediate Notice Given?***** <input type="checkbox"/> Yes	If YES, To Whom? <i>Left message on 11-1 at OCD office. Tomas called back on Monday. Audra Burton NM clerk for Pyote Water Systems</i>	
By Whom? <i>Tomas from Hobbs office</i>	Date and Hour <i>11-1-17 8:40 am</i>	
Was a Watercourse Reached ***** <input type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.*		

Describe Cause of Problem and Remedial Action Taken. * *t and nipple on well head busted 8:40 am Jeff notified Jerry that morning*

Describe Area Affected and Cleanup Action Taken. *Southeast corner by well, and will need to call Talon for soil sampling –per Jerry Burton*

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOC rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOC marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOC acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: 	OIL CONSERVATION DIVISION
Printed Name: <i>Jerry Burton</i>	Approved by Environmental Specialist:

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: Pyote Water Solutions, LLC	Contact: Jerry Burton
Address: 400 W. Illinois, STE 950 Midland, TX 79701	Telephone No. 432-448-4917
Facility Name: A.N. ETZ SWD #001	Facility Type: SWD

Surface Owner: Private	Mineral Owner: Private	API No. 30-025-07713
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LOCATION OF RELEASE

Unit Letter P	Section 26	Township 19S	Range 38E	Feet from the 660	North/South Line SOUTH	Feet from the 660	East/West Line EAST	County LEA
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Latitude 32.6257858 Longitude -103.112793

NATURE OF RELEASE

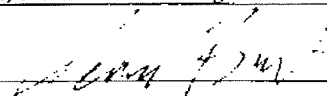

Type of Release: Produced Water	Volume of Release: 300bbls	Volume Recovered: Obbls
Source of Release: Tee and nipple failure at well head	Date and Hour of Occurrence: 11-1-2014	Date and Hour of Discovery: 11-1-2014 8:40am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Voicemail-OCD District 1	
By Whom? Audra Burton	Date and Hour: 11-1-2014 8:40am	
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.*
A tee and nipple at the well head failed resulting in the release of approximately 300bbls of produced water. The equipment was replaced and the well was put back into service. NMOCD was notified of the release.

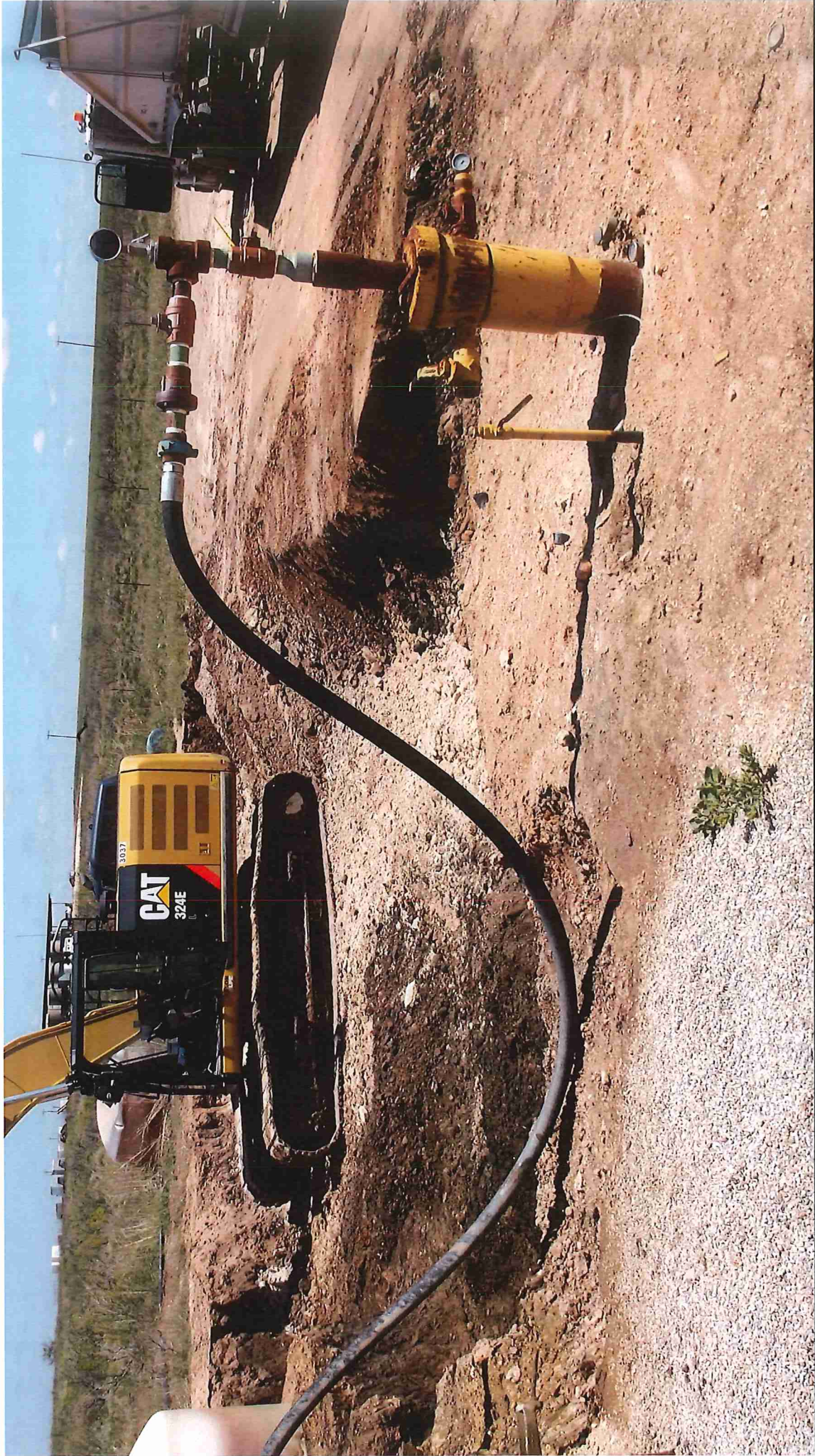
Describe Area Affected and Cleanup Action Taken.*
The impacted area included the location surrounding the well head and a flow path southeast of the well head moving into the low area in the pasture. Talon/LPE was contracted to conduct a site assessment and perform soil sampling within the impacted area. Heavy monsoon rains and the subsequent water accumulation forced a delay in the remediation. Once site conditions allowed Talon mobilized personnel to resample the impacted area. Upon receipt of analytical data from this soil sampling event a remediation work plan was generated and subsequently approved by NMOCD. The remediation moved forward to the scope laid out in the approved work plan. The impacted area on location was excavated to 4-feet below ground surface (BGS). The impacted area in the pasture was excavated to a depth of 4-feet BGS and a liner was installed to encapsulate the remaining chloride impacts. The excavation was backfilled and contoured to match the surrounding terrain. Berms were construed on location to prevent the movement of fluid should another release occur in the future.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

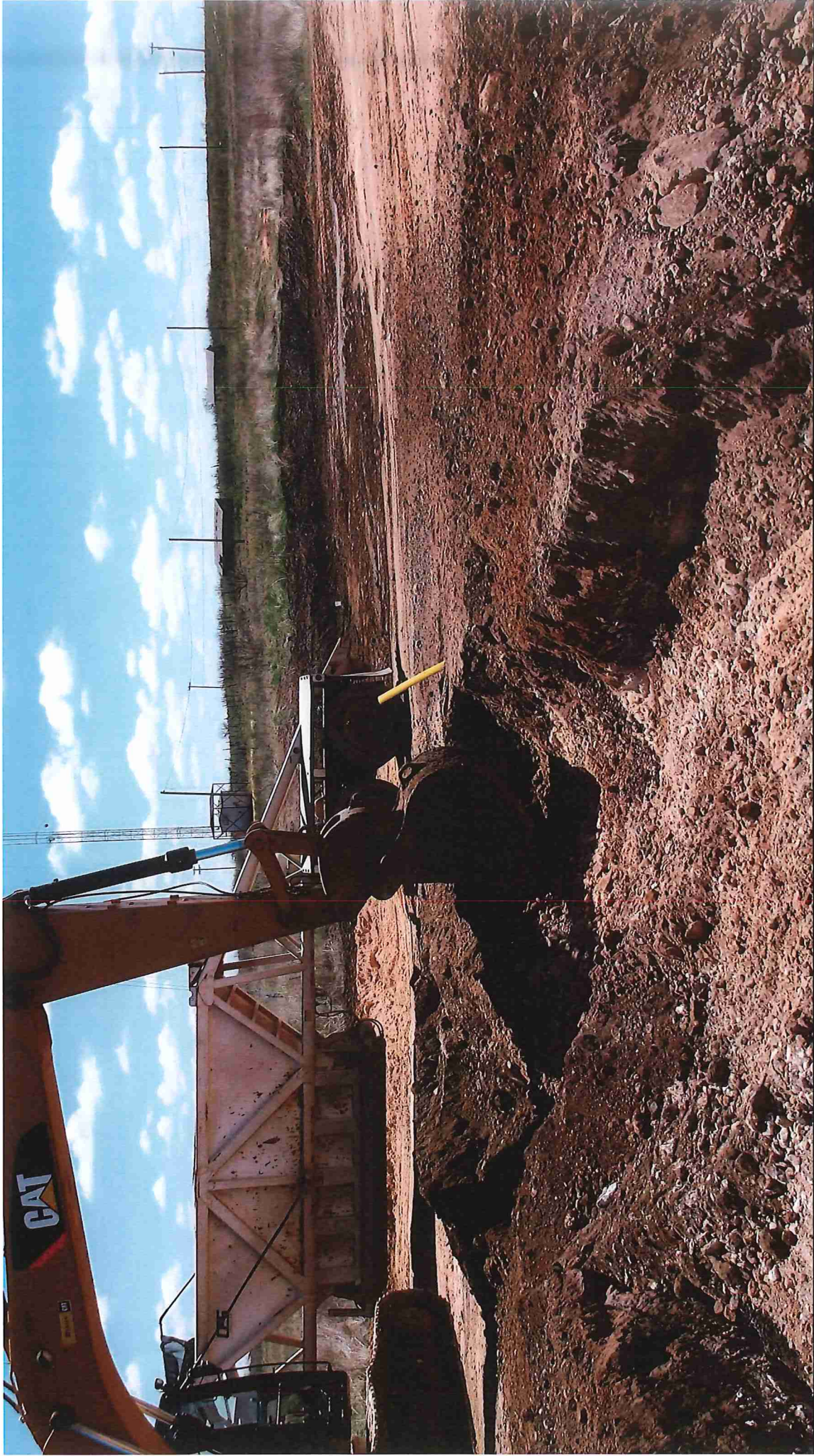
Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Jerry Burton	Approved by Environmental Specialist: 	
Title: New Mexico Regional District Manager	Approval Date: 04/25/2016	Expiration Date: ///
E-mail Address: jerry@pyotewatersystems.com	Conditions of Approval: ///	Attached <input type="checkbox"/> 1RP 3415
Date: 4/21/2016	Phone: 432-448-4917	

* Attach Additional Sheets If Necessary

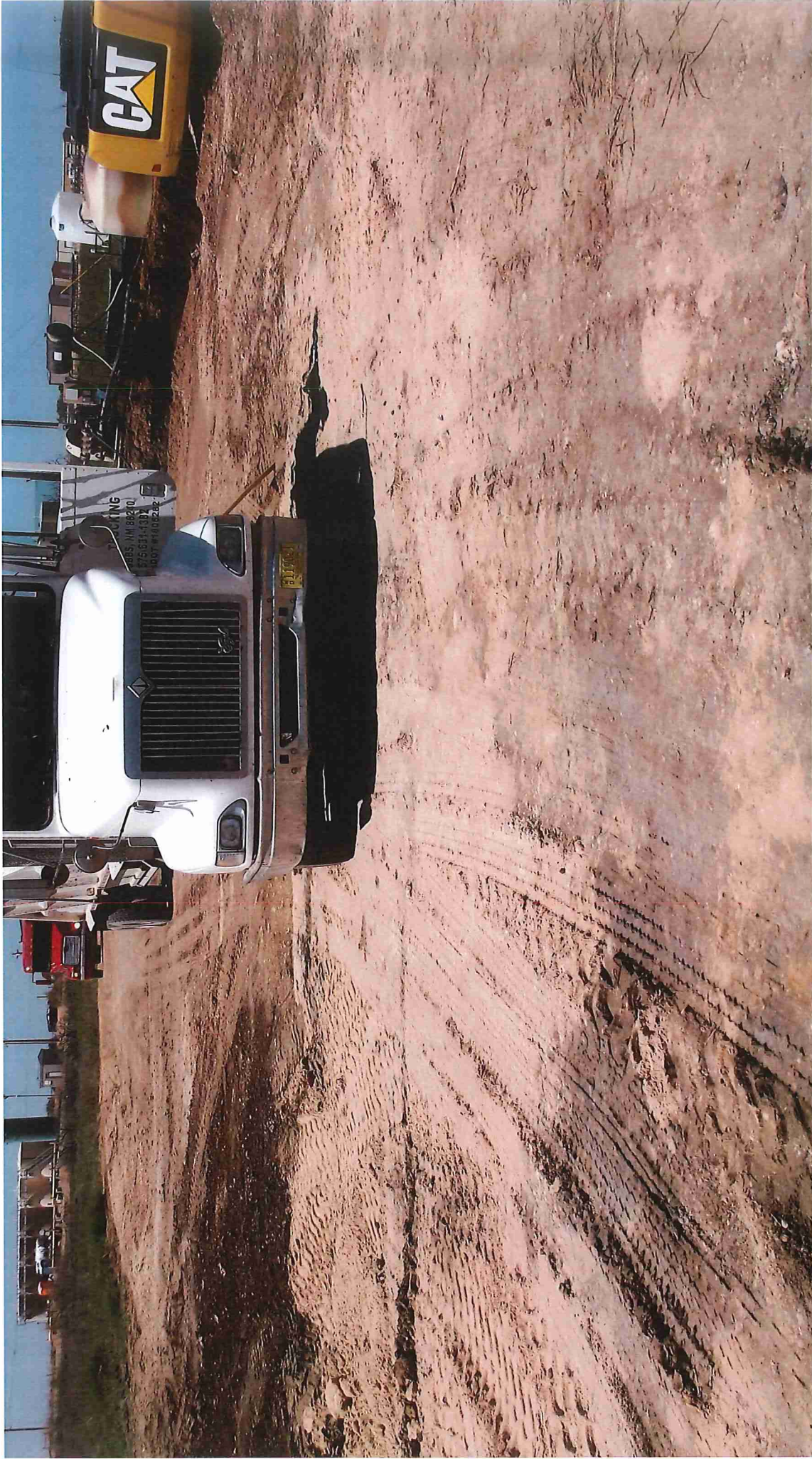
APPENDIX IV
PHOTOGRAPHIC DOCUMENTATION



32.625781 -103.112809



32.625986 -103.112647



32.625858 -103.112512



32.625555 -103.112451



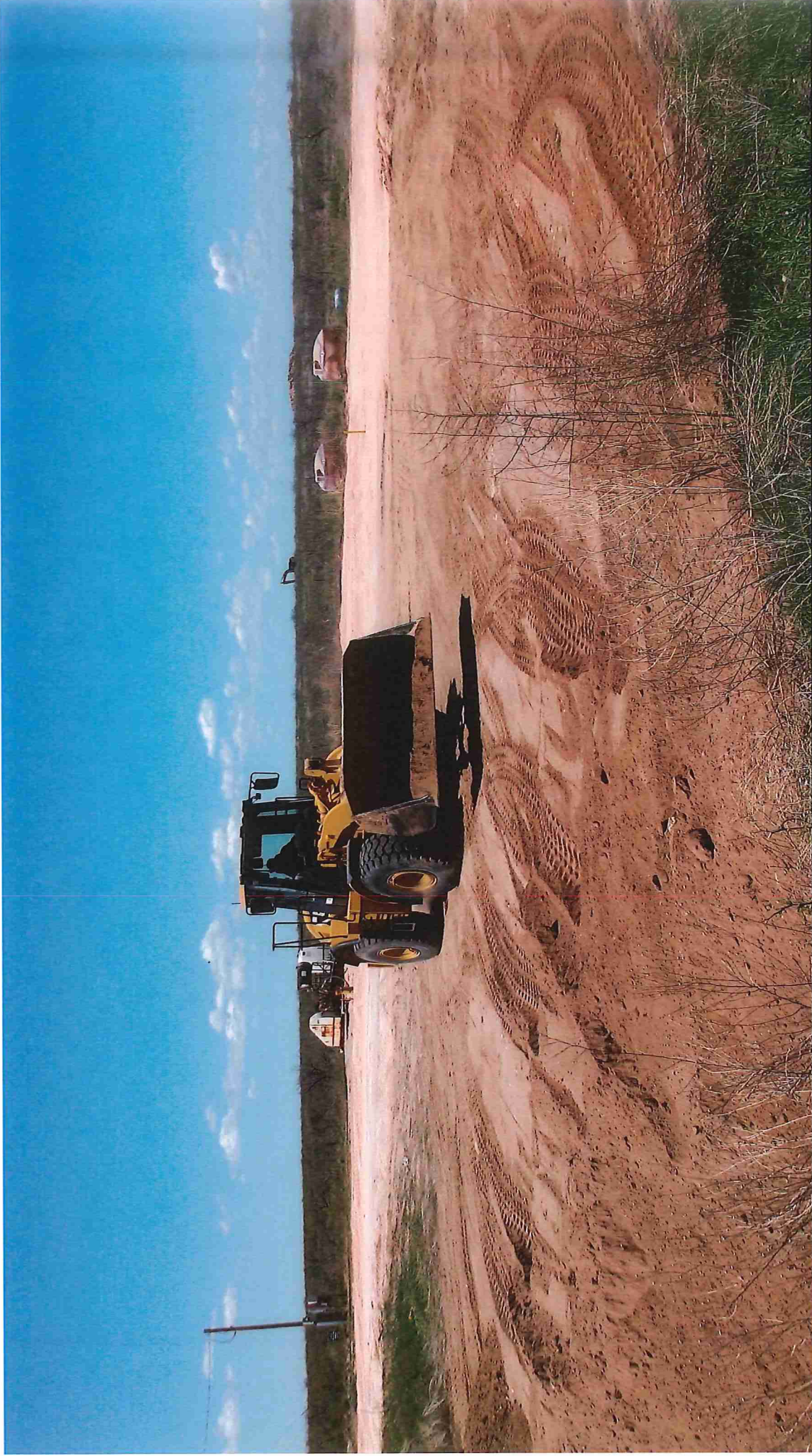
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32.625540 -103.112469



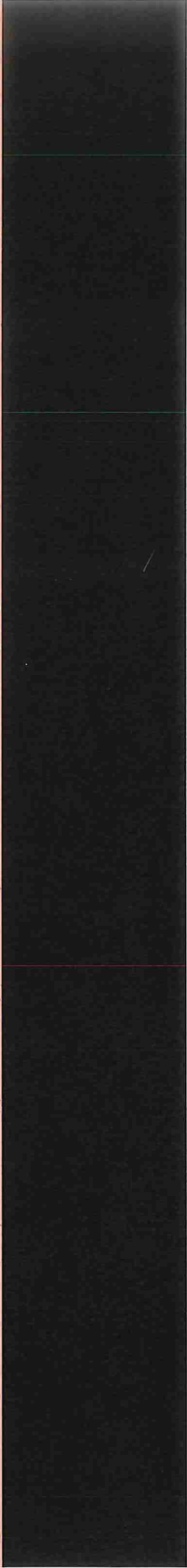
32.625710 -103.112368



32.625615 -103.112413



32.625826 -103.112567



32.625878 -103.112658



32.625878 -103.112658

APPENDIX V

LABORATORY RESULTS



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

January 12, 2015

SHELDON HITCHCOCK

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: ETZ SWD

Enclosed are the results of analyses for samples received by the laboratory on 01/07/15 11:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

 Received: 01/07/2015
 Reported: 01/12/2015
 Project Name: ETZ SWD
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 01/07/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-1 0' (H500041-01)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/09/2015	ND	1.72	86.1	2.00	5.71		
Toluene*	<0.050	0.050	01/09/2015	ND	1.69	84.6	2.00	7.04		
Ethylbenzene*	<0.050	0.050	01/09/2015	ND	1.63	81.6	2.00	8.36		
Total Xylenes*	<0.150	0.150	01/09/2015	ND	4.91	81.8	6.00	8.55		
Total BTEX	<0.300	0.300	01/09/2015	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 93.3 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8260	16.0	01/08/2015	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	01/07/2015	ND	190	94.9	200	1.64		
DRO >C10-C28	4030	50.0	01/07/2015	ND	177	88.5	200	0.912		

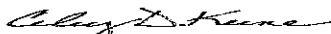
Surrogate: 1-Chlorooctane 89.2 % 47.2-157

Surrogate: 1-Chlorooctadecane 172 % 52.1-176

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

 Received: 01/07/2015
 Reported: 01/12/2015
 Project Name: ETZ SWD
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 01/07/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-1 1' REFUSAL (H500041-02)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/09/2015	ND	1.72	86.1	2.00	5.71	
Toluene*	<0.050	0.050	01/09/2015	ND	1.69	84.6	2.00	7.04	
Ethylbenzene*	<0.050	0.050	01/09/2015	ND	1.63	81.6	2.00	8.36	
Total Xylenes*	<0.150	0.150	01/09/2015	ND	4.91	81.8	6.00	8.55	
Total BTEX	<0.300	0.300	01/09/2015	ND					

Surrogate: 4-Bromofluorobenzene (PII) 98.4 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10500	16.0	01/08/2015	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	11.5	10.0	01/07/2015	ND	190	94.9	200	1.64	
DRO >C10-C28	222	10.0	01/07/2015	ND	177	88.5	200	0.912	

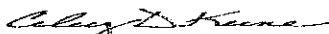
Surrogate: 1-Chlorooctane 90.4 % 47.2-157

Surrogate: 1-Chlorooctadecane 94.8 % 52.1-176

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

Received:	01/07/2015	Sampling Date:	01/07/2015
Reported:	01/12/2015	Sampling Type:	Soil
Project Name:	ETZ SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S-2 0' (H500041-03)

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	01/09/2015	ND	1.72	86.1	2.00	5.71		
Toluene*	<0.050	0.050	01/09/2015	ND	1.69	84.6	2.00	7.04		
Ethylbenzene*	<0.050	0.050	01/09/2015	ND	1.63	81.6	2.00	8.36		
Total Xylenes*	<0.150	0.150	01/09/2015	ND	4.91	81.8	6.00	8.55		
Total BTEX	<0.300	0.300	01/09/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	496	16.0	01/08/2015	ND	416	104	400	0.00		

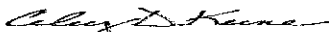
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	01/07/2015	ND	190	94.9	200	1.64		
DRO >C10-C28	<10.0	10.0	01/07/2015	ND	177	88.5	200	0.912		

Surrogate: 1-Chlorooctane 87.1 % 47.2-157
Surrogate: 1-Chlorooctadecane 92.0 % 52.1-176

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	01/07/2015	Sampling Date:	01/07/2015
Reported:	01/12/2015	Sampling Type:	Soil
Project Name:	ETZ SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S-2 1' REFUSAL (H500041-04)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/09/2015	ND	1.72	86.1	2.00	5.71		
Toluene*	<0.050	0.050	01/09/2015	ND	1.69	84.6	2.00	7.04		
Ethylbenzene*	<0.050	0.050	01/09/2015	ND	1.63	81.6	2.00	8.36		
Total Xylenes*	<0.150	0.150	01/09/2015	ND	4.91	81.8	6.00	8.55		
Total BTEX	<0.300	0.300	01/09/2015	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 95.5 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2160	16.0	01/08/2015	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	01/07/2015	ND	190	94.9	200	1.64		
DRO >C10-C28	<10.0	10.0	01/07/2015	ND	177	88.5	200	0.912		

Surrogate: 1-Chlorooctane 89.7 % 47.2-157
Surrogate: 1-Chlorooctadecane 98.8 % 52.1-176

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 01/07/2015
 Reported: 01/12/2015
 Project Name: ETZ SWD
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 01/07/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-3 0' (H500041-05)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/09/2015	ND	1.72	86.1	2.00	5.71	
Toluene*	<0.050	0.050	01/09/2015	ND	1.69	84.6	2.00	7.04	
Ethylbenzene*	<0.050	0.050	01/09/2015	ND	1.63	81.6	2.00	8.36	
Total Xylenes*	<0.150	0.150	01/09/2015	ND	4.91	81.8	6.00	8.55	
Total BTEX	<0.300	0.300	01/09/2015	ND					

Surrogate: 4-Bromofluorobenzene (PII) 95.4 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10700	16.0	01/08/2015	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	01/07/2015	ND	190	94.9	200	1.64	
DRO >C10-C28	<10.0	10.0	01/07/2015	ND	177	88.5	200	0.912	

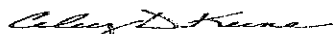
Surrogate: 1-Chlorooctane 85.7 % 47.2-157

Surrogate: 1-Chlorooctadecane 93.6 % 52.1-176

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 01/07/2015
 Reported: 01/12/2015
 Project Name: ETZ SWD
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 01/07/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-3 1' REFUSAL (H500041-06)

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	01/09/2015	ND	1.72	86.1	2.00	5.71		
Toluene*	<0.050	0.050	01/09/2015	ND	1.69	84.6	2.00	7.04		
Ethylbenzene*	<0.050	0.050	01/09/2015	ND	1.63	81.6	2.00	8.36		
Total Xylenes*	<0.150	0.150	01/09/2015	ND	4.91	81.8	6.00	8.55		
Total BTEX	<0.300	0.300	01/09/2015	ND						

Surrogate: 4-Bromofluorobenzene (PII) 96.7 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6930	16.0	01/08/2015	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	01/08/2015	ND	190	94.9	200	1.64		
DRO >C10-C28	<10.0	10.0	01/08/2015	ND	177	88.5	200	0.912		


Surrogate: 1-Chlorooctane 90.6 % 47.2-157

Surrogate: 1-Chlorooctadecane 90.6 % 52.1-176

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Coley D. Keene, Lab Director/Quality Manager

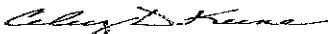
Notes and Definitions

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



CARDINAL Laboratories

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: Talon/PE

Project Manager: S. Hitchcock

Address: 408 W. Texas Ave.

City: Artesia State: NM Zip: 88210

Phone #: 575-746-8768 Fax #: 575-746-8905

Project #: Project Owner: Pyote

Project Name: ETZ SWD

Project Location: S. Hitchcock

Sampler Name: S. Hitchcock

FOR LAB USE ONLY

P.O. #: Company: Talon/PE

Attn: Address:

City: State: Zip:

Phone #: Fax #:

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	ANALYSIS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:			
H500041			5								11/2/15	10:35	TPH
1	5-10'		1									10:37	BTEX
2	5-11' refusal		1									10:41	Chlorides
3	5-20'		1									10:50	
4	5-21' refusal		1									10:55	
5	5-30'		1										
6	5-31' refusal		1										

PLEASE NOTE: Liability and cleanup costs are the responsibility of the client. Cardinal will not be liable for any cleanup costs incurred by the client. Cardinal will not be liable for any cleanup costs incurred by the client. Cardinal will not be liable for any cleanup costs incurred by the client.

Relinquished By: *S. Hitchcock* Date: 11/1/15
Received By: *Scott Jensen* Date: 11/1/15
Time: 11:40

Delivered By: (Circle One) UPS - Bus - Other: *20*
Checked By: *[Signature]*

Sample Condition: Cool Intact
Yes No

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



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

March 10, 2016

SHELDON HITCHCOCK

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: ETZ SWD

Enclosed are the results of analyses for samples received by the laboratory on 03/04/16 14:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

 Received: 03/04/2016
 Reported: 03/10/2016
 Project Name: ETZ SWD
 Project Number: 701712.004.01
 Project Location: NOT GIVEN

 Sampling Date: 03/04/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-1 0' (H600487-01)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/08/2016	ND	2.07	103	2.00	3.33		
Toluene*	<0.050	0.050	03/08/2016	ND	2.03	102	2.00	3.88		
Ethylbenzene*	<0.050	0.050	03/08/2016	ND	1.82	91.2	2.00	4.85		
Total Xylenes*	<0.150	0.150	03/08/2016	ND	5.66	94.4	6.00	4.50		
Total BTEX	<0.300	0.300	03/08/2016	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 99.0 % 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	6000	16.0	03/08/2016	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	03/07/2016	ND	206	103	200	10.6		
DRO >C10-C28	<10.0	10.0	03/07/2016	ND	231	116	200	19.6		

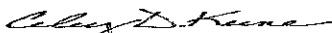
Surrogate: 1-Chlorooctane 92.4 % 35-147
Surrogate: 1-Chlorooctadecane 102 % 28-171
Sample ID: S-1 1' (H600487-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6530	16.0	03/08/2016	ND	432	108	400	7.69		

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	03/04/2016	Sampling Date:	03/04/2016
Reported:	03/10/2016	Sampling Type:	Soil
Project Name:	ETZ SWD	Sampling Condition:	Cool & Intact
Project Number:	701712.004.01	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S-1 2' (H600487-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8660	16.0	03/08/2016	ND	432	108	400	7.69		

Sample ID: S-1 3' (H600487-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3760	16.0	03/08/2016	ND	432	108	400	7.69		

Sample ID: S-1 4' (H600487-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	608	16.0	03/08/2016	ND	432	108	400	7.69		

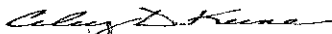
Sample ID: S-1 5' (H600487-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	03/08/2016	ND	432	108	400	7.69		

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	03/04/2016	Sampling Date:	03/04/2016
Reported:	03/10/2016	Sampling Type:	Soil
Project Name:	ETZ SWD	Sampling Condition:	Cool & Intact
Project Number:	701712.004.01	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S-2 0' (H600487-07)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/08/2016	ND	2.07	103	2.00	3.33		
Toluene*	<0.050	0.050	03/08/2016	ND	2.03	102	2.00	3.88		
Ethylbenzene*	<0.050	0.050	03/08/2016	ND	1.82	91.2	2.00	4.85		
Total Xylenes*	<0.150	0.150	03/08/2016	ND	5.66	94.4	6.00	4.50		
Total BTEX	<0.300	0.300	03/08/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 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	1280	16.0	03/08/2016	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	03/07/2016	ND	206	103	200	10.6		
DRO >C10-C28	<10.0	10.0	03/07/2016	ND	231	116	200	19.6		

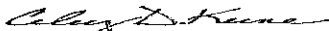
Surrogate: 1-Chlorooctane 87.4 % 35-147
Surrogate: 1-Chlorooctadecane 99.0 % 28-171
Sample ID: S-2 1' (H600487-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1960	16.0	03/08/2016	ND	432	108	400	7.69		

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	03/04/2016	Sampling Date:	03/04/2016
Reported:	03/10/2016	Sampling Type:	Soil
Project Name:	ETZ SWD	Sampling Condition:	Cool & Intact
Project Number:	701712.004.01	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S-2 2' (H600487-09)

Chloride, SM4500Cl-B	mg/kg	Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4160	16.0	03/08/2016	ND	432	108	400	7.69	


Sample ID: S-2 3' (H600487-10)

Chloride, SM4500Cl-B	mg/kg	Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4720	16.0	03/08/2016	ND	432	108	400	7.69	

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 03/04/2016
 Reported: 03/10/2016
 Project Name: ETZ SWD
 Project Number: 701712.004.01
 Project Location: NOT GIVEN

 Sampling Date: 03/04/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-2 4' (H600487-11)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/08/2016	ND	2.08	104	2.00	0.193		
Toluene*	<0.050	0.050	03/08/2016	ND	2.03	102	2.00	0.140		
Ethylbenzene*	<0.050	0.050	03/08/2016	ND	1.83	91.3	2.00	0.480		
Total Xylenes*	<0.150	0.150	03/08/2016	ND	5.63	93.8	6.00	0.275		
Total BTEX	<0.300	0.300	03/08/2016	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 98.4 % 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	03/08/2016	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	03/07/2016	ND	206	103	200	10.6		
DRO >C10-C28	<10.0	10.0	03/07/2016	ND	231	116	200	19.6		

Surrogate: 1-Chlorooctane 99.3 % 35-147

Surrogate: 1-Chlorooctadecane 111 % 28-171

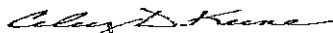
Sample ID: S-2 5' (H600487-12)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3760	16.0	03/08/2016	ND	432	108	400	7.69		

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	03/04/2016	Sampling Date:	03/04/2016
Reported:	03/10/2016	Sampling Type:	Soil
Project Name:	ETZ SWD	Sampling Condition:	Cool & Intact
Project Number:	701712.004.01	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S-2 7' (H600487-13)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4400	16.0	03/08/2016	ND	432	108	400	7.69		

Sample ID: S-2 9' (H600487-14)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3920	16.0	03/08/2016	ND	432	108	400	7.69		

Sample ID: S-2 11' (H600487-15)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1260	16.0	03/08/2016	ND	432	108	400	7.69		

Sample ID: S-2 13' (H600487-16)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	928	16.0	03/08/2016	ND	432	108	400	7.69		

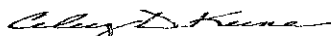
Sample ID: S-2 15' (H600487-17)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	512	16.0	03/08/2016	ND	432	108	400	7.69		

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Analytical Results For:

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

 Received: 03/04/2016
 Reported: 03/10/2016
 Project Name: ETZ SWD
 Project Number: 701712.004.01
 Project Location: NOT GIVEN

 Sampling Date: 03/04/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-2 17' (H600487-18)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	03/08/2016	ND	432	108	400	7.69		

Sample ID: S-3 0' (H600487-19)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/08/2016	ND	2.08	104	2.00	0.193		
Toluene*	<0.050	0.050	03/08/2016	ND	2.03	102	2.00	0.140		
Ethylbenzene*	<0.050	0.050	03/08/2016	ND	1.83	91.3	2.00	0.480		
Total Xylenes*	<0.150	0.150	03/08/2016	ND	5.63	93.8	6.00	0.275		
Total BTEX	<0.300	0.300	03/08/2016	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 98.5 % 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	112	16.0	03/08/2016	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	03/07/2016	ND	227	114	200	7.80		
DRO >C10-C28	<10.0	10.0	03/07/2016	ND	259	130	200	13.5		

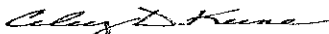
Surrogate: 1-Chlorooctane 97.6 % 35-147

Surrogate: 1-Chlorooctadecane 108 % 28-171

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Analytical Results For:

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

 Received: 03/04/2016
 Reported: 03/10/2016
 Project Name: ETZ SWD
 Project Number: 701712.004.01
 Project Location: NOT GIVEN

 Sampling Date: 03/04/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-3 1' (H600487-20)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/08/2016	ND	432	108	400	7.69		

Sample ID: S-3 2' (H600487-21)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	03/08/2016	ND	432	108	400	7.69		

Sample ID: S-3 3' (H600487-22)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	448	16.0	03/08/2016	ND	432	108	400	7.69		

Sample ID: S-3 4' (H600487-23)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	448	16.0	03/08/2016	ND	432	108	400	7.69		

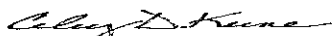
Sample ID: S-3 5' (H600487-24)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	03/08/2016	ND	432	108	400	7.69		

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 03/04/2016
 Reported: 03/10/2016
 Project Name: ETZ SWD
 Project Number: 701712.004.01
 Project Location: NOT GIVEN

 Sampling Date: 03/04/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-4 0' (H600487-25)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/08/2016	ND	2.08	104	2.00	0.193		
Toluene*	<0.050	0.050	03/08/2016	ND	2.03	102	2.00	0.140		
Ethylbenzene*	<0.050	0.050	03/08/2016	ND	1.83	91.3	2.00	0.480		
Total Xylenes*	<0.150	0.150	03/08/2016	ND	5.63	93.8	6.00	0.275		
Total BTEX	<0.300	0.300	03/08/2016	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 98.0 % 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	03/08/2016	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	03/07/2016	ND	227	114	200	7.80		
DRO >C10-C28	<10.0	10.0	03/07/2016	ND	259	130	200	13.5		

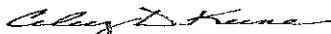
Surrogate: 1-Chlorooctane 94.2 % 35-147

Surrogate: 1-Chlorooctadecane 107 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	03/04/2016	Sampling Date:	03/04/2016
Reported:	03/10/2016	Sampling Type:	Soil
Project Name:	ETZ SWD	Sampling Condition:	Cool & Intact
Project Number:	701712.004.01	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S-5 0' (H600487-26)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/08/2016	ND	2.08	104	2.00	0.193		
Toluene*	<0.050	0.050	03/08/2016	ND	2.03	102	2.00	0.140		
Ethylbenzene*	<0.050	0.050	03/08/2016	ND	1.83	91.3	2.00	0.480		
Total Xylenes*	<0.150	0.150	03/08/2016	ND	5.63	93.8	6.00	0.275		
Total BTEX	<0.300	0.300	03/08/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 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	03/08/2016	ND	432	108	400	7.69		

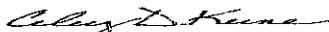
TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	03/07/2016	ND	227	114	200	7.80		
DRO >C10-C28	<10.0	10.0	03/07/2016	ND	259	130	200	13.5		

Surrogate: 1-Chlorooctane 96.2 % 35-147
Surrogate: 1-Chlorooctadecane 103 % 28-171

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Analytical Results For:

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

 Received: 03/04/2016
 Reported: 03/10/2016
 Project Name: ETZ SWD
 Project Number: 701712.004.01
 Project Location: NOT GIVEN

 Sampling Date: 03/04/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-6 0' (H600487-27)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/08/2016	ND	2.08	104	2.00	0.193		
Toluene*	<0.050	0.050	03/08/2016	ND	2.03	102	2.00	0.140		
Ethylbenzene*	<0.050	0.050	03/08/2016	ND	1.83	91.3	2.00	0.480		
Total Xylenes*	<0.150	0.150	03/08/2016	ND	5.63	93.8	6.00	0.275		
Total BTEX	<0.300	0.300	03/08/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 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	03/08/2016	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	03/08/2016	ND	227	114	200	7.80		
DRO >C10-C28	<10.0	10.0	03/08/2016	ND	259	130	200	13.5		

Surrogate: 1-Chlorooctane 95.5 % 35-147
Surrogate: 1-Chlorooctadecane 108 % 28-171

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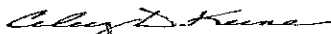
Notes and Definitions

- QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- BS1 Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

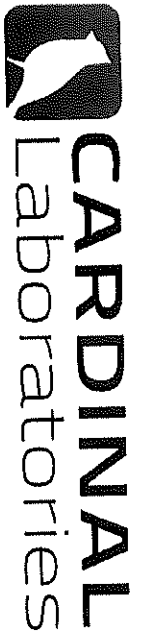
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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

161 or 3

Company Name: Talon/PE

Project Manager: S. Hitchcock

Address: 408 W. Texas Ave.

City: Artesia

Phone #: 575-746-8768

Project #: 701718, 004, 01

Project Name: FT2 SWD

Project Location:

Sampler Name: G.H. Lincoln

FOR LAB USE ONLY

P.O. #:

Company: Talon/PE

Attn:

Address:

City:

State:

Phone #:

Fax #:

MATRIX

PRESERV

SAMPLING

Lab I.D. Sample I.D.

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	ANALYSIS
1	5-10	G	1										12/16	12:05	TPH
2	5-11	G	1										12/02	12:05	BTEX
3	5-12	G	1										12/04	12:06	Chlorides
4	5-13	G	1										12/06	12:08	
5	5-14	G	1										12/10	12:10	
6	5-15	G	1										12/10	12:10	
7	5-20	G	1										11/02	11:02	
8	5-21	G	1										11/04	11:04	
9	5-22	G	1										12/6	12:6	
10	5-23	G	1												

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Relinquished By: *Shelby Neize*

Date: 3/11/16
 Time: 2:15

Relinquished By: *Shelby Neize*

Date: *3/11/16*
 Time: *2:15*

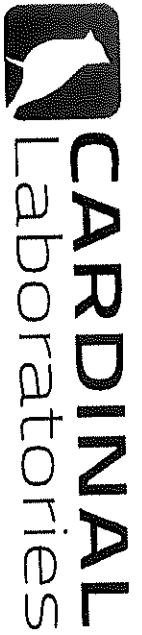
Received By: *Wadi Henderson*

Delivered By: (Circle One) UPS Bus Other

Sampler - UPS - Bus - Other: *5.80*

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

575



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: Talon/LPE

Project Manager:

Address: 408 W. Texas Ave.

City: Artesia

Phone #: 575-746-8768

Project #:

Project Name: FT2 SWD

Project Location:

Sample Name:

FOR LAB USE ONLY

P.O. #:

Company: Talon/LPE

Attn:

Address:

City:

State:

Phone #:

Fax #:

MATRIX

PRESERV

SAMPLING

Lab I.D. Sample I.D.

H000467

5-24'

5-25'

5-27'

5-29'

5-211'

5-213'

5-215'

5-217'

5-30'

5-31'

5-31'

5-31'

5-31'

5-31'

5-31'

5-31'

5-31'

5-31'

5-31'

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5-31'

5-31'

5-31'

5-31'

5-31'

5-31'

5-31'

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

11:08

11:10

11:12

11:14

11:15

11:19

11:20

11:50

11:52

11:52

11:52

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TPH
 BTEX
 Chlorides

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Relinquished By:

Shela NTC

Date: 3/4/16

Time: 12:15

Received By:

Spodi Benson

Date:

Time:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

5.88

Sample Condition
 Cool Intact
 Yes No

CHECKED BY:

(Signature)

Phone Result:

Fax Result:

REMARKS:

Yes No

Yes No

Yes No

Add'l Phone #:

Add'l Fax #:

Add'l Fax #:

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2226 #54

462023



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: Talon/LPE

Project Manager:

Address: 408 W. Texas Ave.

City: Artesia

Phone #: 575-746-8768

Project #:

Project Name: FT2 SWD

Project Location:

Sampler Name:

FOR LAB USE ONLY

P.O. #:

Company: Talon/LPE

Attn:

Address:

City:

State:

Phone #:

Fax #:

MATRIX

PRESERV

SAMPLING

Lab I.D. Sample I.D.

HOOD487

21

22

23

24

25

26

27

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

TPH
BTEX
Chlorides

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Relinquished By: *Stephan Nitz*

Date: *2/15*

Time: *11:10*

Received By: *Scotti Morrison*

Date: *2/15*

Time: *5:30*

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Sample Condition

Cool Intact

CHECKED BY: *[Signature]*

Phone Result: Yes No

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

PL 3013



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

April 19, 2016

SHELDON HITCHCOCK

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: A.N. ETZ SWD #1

Enclosed are the results of analyses for samples received by the laboratory on 04/11/16 12:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received:	04/11/2016	Sampling Date:	04/11/2016
Reported:	04/19/2016	Sampling Type:	Soil
Project Name:	A.N. ETZ SWD #1	Sampling Condition:	** (See Notes)
Project Number:	701712.004.02	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S-2 20' (H600780-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	560	16.0	04/12/2016	ND	416	104	400	7.41		

Sample ID: S-2 22' (H600780-02)

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	04/12/2016	ND	400	100	400	0.00		

Sample ID: S-3 10' (H600780-03)

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	04/12/2016	ND	400	100	400	0.00		

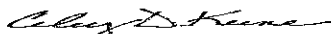
Sample ID: S-3 15' (H600780-04)

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	04/12/2016	ND	400	100	400	0.00		

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: Talon/LPE
 Project Manager: J. Hittler
 Address: 408 W. Texas Ave.
 City: Atesia State: NM Zip: 88210
 Phone #: 575-746-8768 Fax #: 575-746-8905
 Project #: 70172, 024, 02 Project Owner: Pyote
 Project Name: A.W. ETZ SWD #1
 Project Location:
 Sampler Name: S. Hittler
 FOR LAB USE ONLY

P.O. #: _____ Company: Talon/LPE
 Attn: _____
 Address: _____
 City: _____ State: _____ Zip: _____
 Phone #: _____ Fax #: _____

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	ANALYSIS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.			
H0075D	1	G	1								4/11/16	10:30	Chlorides
	2	G	1								10:35		
	3	G	1								9:30		
	4	G	1								9:40		

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Relinquished By: Sandra Pyote
 Date: 4/11/16
 Time: _____
 Received By: Michael Hernandez
 Date: _____
 Time: _____

Phone Result: Yes No Add'l Phone #: _____
 Fax Result: Yes No Add'l Fax #: _____
 REMARKS: RUSH

Delivered By: (Circle One)
 Sampler - UPS - Bus - Other: _____
 Date: 28.6.16
 Checked By: [Signature]

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 Corrected 28.7.16 H 11