



November 17, 2015

Ms. Heather Patterson

NMOCD District 2

811 S. 1st Street

Artesia, NM 88210

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

ARTESIA
408 West Texas Ave.
Artesia, New Mexico 88210
Phone 575.746.8768
Fax 575.748.8905

Subject: **Soil Assessment and Remediation Work Plan**
Bridger Logistics, LLC
Centurion- Pecos River Station: Oxy Unload
2RP-3323

Dear Ms. Patterson

HOBBS
318 East Taylor Street
Hobbs, New Mexico 88241
Phone 505.393.4261
Fax 505.393.4658

Bridger Logistics, LLC (Bridger) has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the Centurion Pecos River Station Oxy Unload Tank Battery. The results of our soil assessment and proposed remediation activities consist of the following.

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

Background Information

The Pecos River Station Oxy Unload is located approximately fifteen (15) miles south of Carlsbad, New Mexico. The legal location for this site is Unit Letter L, Section 12, Township 28 South and Range 23 East. More specifically the latitude and longitude for this site are 32.31587 North and -104.04916 West. A site plan is presented in Appendix I.

OKLAHOMA CITY
430 West Wilshire, Suite 10
Oklahoma City, Oklahoma 73116
Phone 405.486.7030
Fax 806.467.0622

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service, the soil in this area is made up of the Pajarito Dune land complex with 0 to 3 percent slopes. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology is comprised of older alluvial deposits of upland plains and piedmont areas. Drainage courses in this area are normally dry. Ground water in the project vicinity is approximately 38-feet below ground surface (bgs) according to the New Mexico Office of the State Engineer. **Appendix II.**

SAN ANTONIO
13111 Lookout Way
San Antonio, Texas 78233
Phone 210.265.8025
Fax 210.568.2191

The ranking for this site is **20** based on the following:

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

ENVIRONMENTAL CONSULTING
ENGINEERING
DRILLING
CONSTRUCTION
SPILL MANAGEMENT
GENERAL CONTRACTING

Incident Description

Human error caused a tank battery to overflow while a truck was unloading into the tanks. This resulted in a release of approximately 65bbls of crude oil. All of the fluid was contained within a lined and bermed facility. Vacuum trucks were immediately dispatched to the location to recover the released fluid. They were able to recover approximately 63.5bbls of crude oil from the containment.

Remedial Activities

Talon mobilized personnel to conduct a site assessment and to provide emergency remediation of the impacted area. The release was contained within a lined battery. Upon correspondence with NMOCD it was decided that no soil sampling would be possible without breaching the liner and that the best course of action would be to remove the impacted gravel from the surface of the liner and replace it with clean gravel. Hand excavation activities then commenced within the battery. Once the impacted gravel was removed it was discovered that two holes had previously be cut into the liner, presumably to access the hatches on tanks 1 & 2. Bridger and Centurion were notified and Talon collected grab soil samples from underneath tanks 1 & 2.

Upon receipt of analytical results from this soil sampling event it was determined that the soil underneath the tanks was above NMOCD Recommended Remedial Action Levels (RRAL's) for BTEX and TPH. This information was forwarded to NMOCD for review. It was determined that vertical delineation of the impacted soil underneath the battery liner would be required in order to develop a remediation strategy. Due to the existing infrastructure within the tank battery NMOCD agreed that utilizing a backhoe to dig one sample pit between tanks 1 & 2 would be the best option for accessing the vertical impacts at this site. The analytical results from the initial soil sampling event and the vertical delineation are summarized in the table below.

Laboratory Results

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

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
TANK 1	N/A	81.4	80	1930	6050
TANK 2	N/A	143	48	3140	6250
S-1	0	6.2	--	139	1360
S-1	1	ND	--	ND	37.5
S-1	2	ND	--	ND	ND
S-1	3	ND	--	ND	ND

(--) Analyte Not Tested

(ND) Analyte Not Detected

Based upon the site ranking of **20**, NMOCD Recommended Remedial Action Levels (RRAL) are 50 mg/kg for BTEX, 10 mg/kg for Benzene, and 100 mg/kg for TPH.

Proposed Remedial Actions

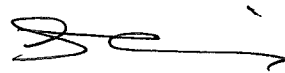
- The damaged liner will be removed and disposed of at Lea Land, LLC.
- The impacted area in the vicinity of sample location S-1 will be excavated to a depth of 0.5-feet bgs.
- The horizontal extent of the excavation will be guided by field PID readings and visual observations.
- Confirmation soil samples will be taken to insure all of the impacted soil has been successfully removed.
- Micro-Blaze (a bioremediation product) will be injected into the soil beneath the tanks to encourage biological degradation of the hydrocarbons remaining underneath the tanks.
- All of the excavated material will be hauled to an NMOCD approved solid waste disposal facility, Lea Land, LLC.
- The excavation will be backfilled with caliche.
- A 40-mil liner will be installed to replace the damaged liner and to act as containment for future releases.

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,



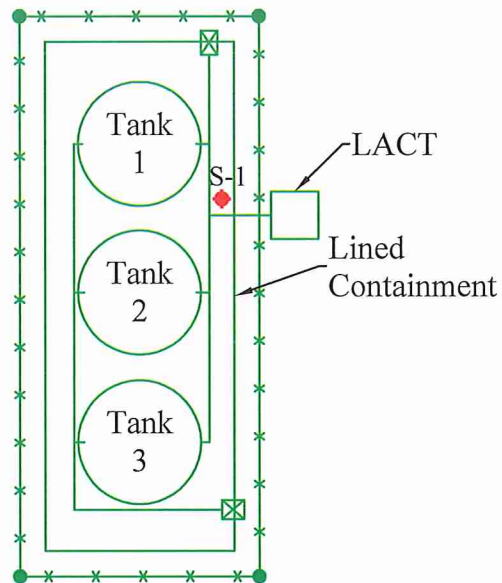
Sheldon Hitchcock
Project Manager



David J. Adkins
District Manager

SITE PLAN

NM-31



0 15 30
Scale in Feet

Legend	
	- Sample Location
	- Chain Link Fence



Date: 11/10/2015
Scale: 1" = 30'
Drawn By: TJS

Pecos River Oxy Unload Station
Bridger Group, LLC
Eddy County, New Mexico
Figure 1 - Site Plan

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
C 03469 POD1	C	ED		3	4	3	11	23S	28E	588374	3575538	401	68	38	30
C 00315	C	ED		3	1	3	11	23S	28E	587973	3575995*	405	100	45	55
C 03469 POD3	C	ED		3	4	3	11	23S	28E	588381	3575538	408	47		
C 03469 POD2	C	ED		3	4	3	11	23S	28E	588382	3575506	414	48		
C 00235	C	ED			2	2	15	23S	28E	587676	3575280*	431	160		
C 00616		ED		1	3	1	14	23S	28E	587982	3574978*	612	120	30	90
C 00321	C	ED			4	2	15	23S	28E	587679	3574874*	775	120		
C 02503	C	ED			4	2	15	23S	28E	587679	3574874*	775	70	12	58
C 00608	C	ED		3	3	1	11	23S	28E	587970	3576401*	811	200		
C 00269	C	ED		4	4	2	15	23S	28E	587778	3574773*	840	240	35	205
C 00269 CLW199753	O	ED		4	4	2	15	23S	28E	587778	3574773*	840	240	35	205

Average Depth to Water: **32 feet**

Minimum Depth: **12 feet**

Maximum Depth: **45 feet**

Record Count: 11

UTMNAD83 Radius Search (in meters):

Easting (X): 587976

Northing (Y): 3575590

Radius: 1000

*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.

INITIAL 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
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.

FAB1528630830

Release Notification and Corrective Action

NAB15286331221

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: Bridger, LLC	Contact: Angel Lance
Address: 2009 Chenault Drive. ST. 100	Telephone No. 469-744-6182
Facility Name: Pecos River Station Oxy Unload	Facility Type: Tank Battery

Surface Owner: Private	Mineral Owner:	API No.
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LOCATION OF RELEASE

Unit Letter L	Section 12	Township 28	Range 23	Feet from the	North/South Line	Feet from the	East/West Line	County Eddy
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Latitude 32.31587 Longitude -104.04916

NATURE OF RELEASE

Type of Release: Crude	Volume of Release: 65bbls	Volume Recovered: 63.5
Source of Release: Tank overflow	Date and Hour of Occurrence: 10/9/15 @ 8:30am	Date and Hour of Discovery: 10/9/15 @ 8:30am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Heather Patterson & Mike Bratcher NMOCD District II	
By Whom? Sheldon Hitchcock-Talon/LPE	Date and Hour: 10/9/15 12:37p	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse: NM OIL CONSERVATION ARTESIA DISTRICT	

If a Watercourse was Impacted, Describe Fully.*

OCT 09 2015

RECEIVED

Describe Cause of Problem and Remedial Action Taken.*

Human error caused a tank battery to overflow while a truck was unloading into the tanks. Vacuum trucks were immediately dispatched to the location to recover the released fluid. All of the fluid was contained within a lined and bermed facility.

Describe Area Affected and Cleanup Action Taken.*

The affected area was inside of a lined and bermed tank battery. Vacuum trucks were utilized to recover 63.5bbls of crude from the battery. Soil sampling will not be possible within the facility due to the liner. The gravel in the battery will be removed, hauled to an NMOCD approved solid waste disposal facility and replaced. Once the remediation activities are complete, a final C-141 will be submitted to NMOCD for review.

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

OIL CONSERVATION DIVISION

Signature: <i>Angel Lance</i>	Approved by Environmental Specialist: <i>[Signature]</i>	
Printed Name: Angel Lance	Approval Date: 10/13/15 Expiration Date: NIA	
Title: Field Safety Rep.	Conditions of Approval: Remediation per O.C.D. Rules & Guidelines <input type="checkbox"/>	
E-mail Address: alance@bridgergroup.com	SUBMIT REMEDIATION PROPOSAL NO	
Date: 10/9/15 Phone: 469-744-6182	LATER THAN: 11/13/15	

* Attach Additional Sheets If Necessary

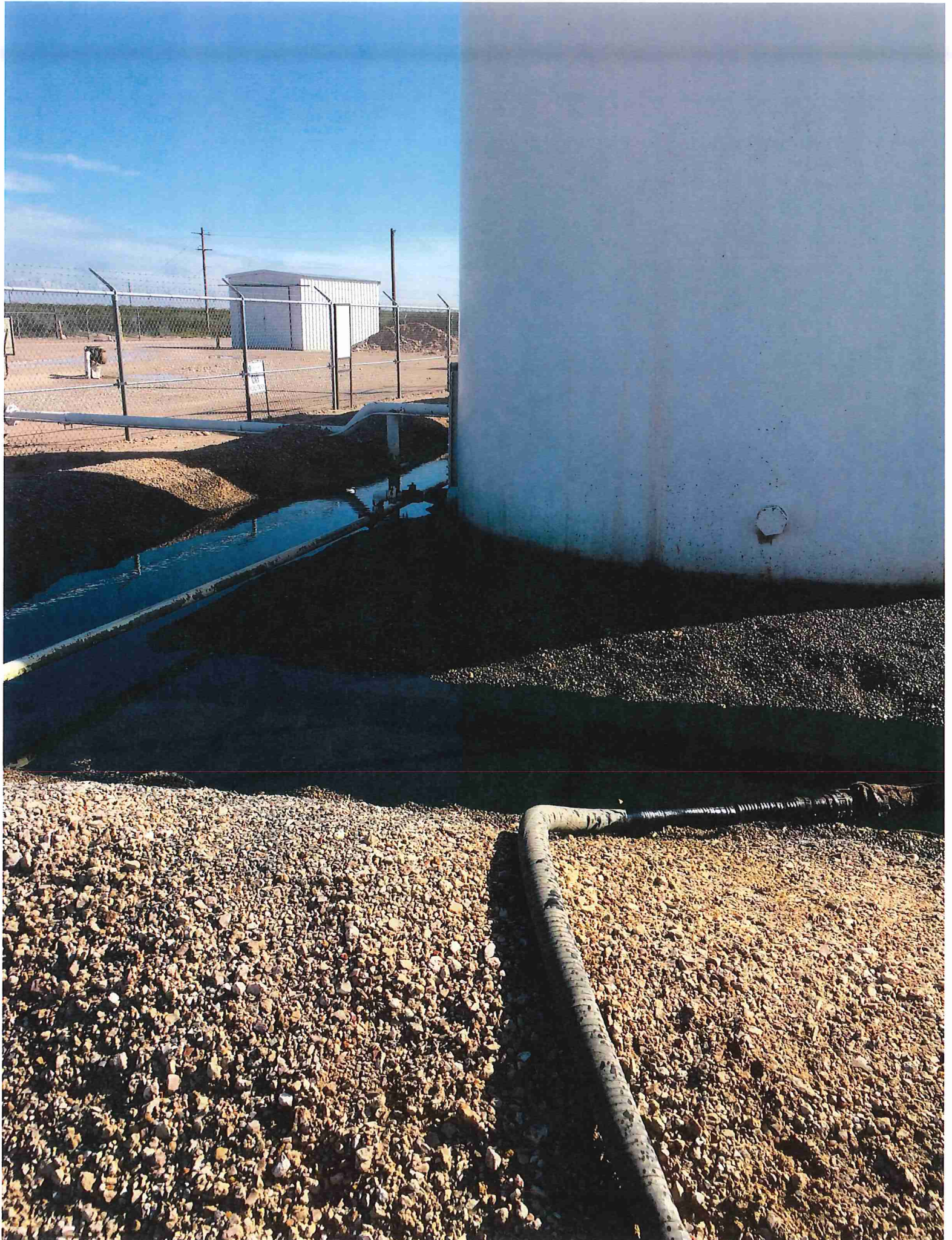
2RP-3323

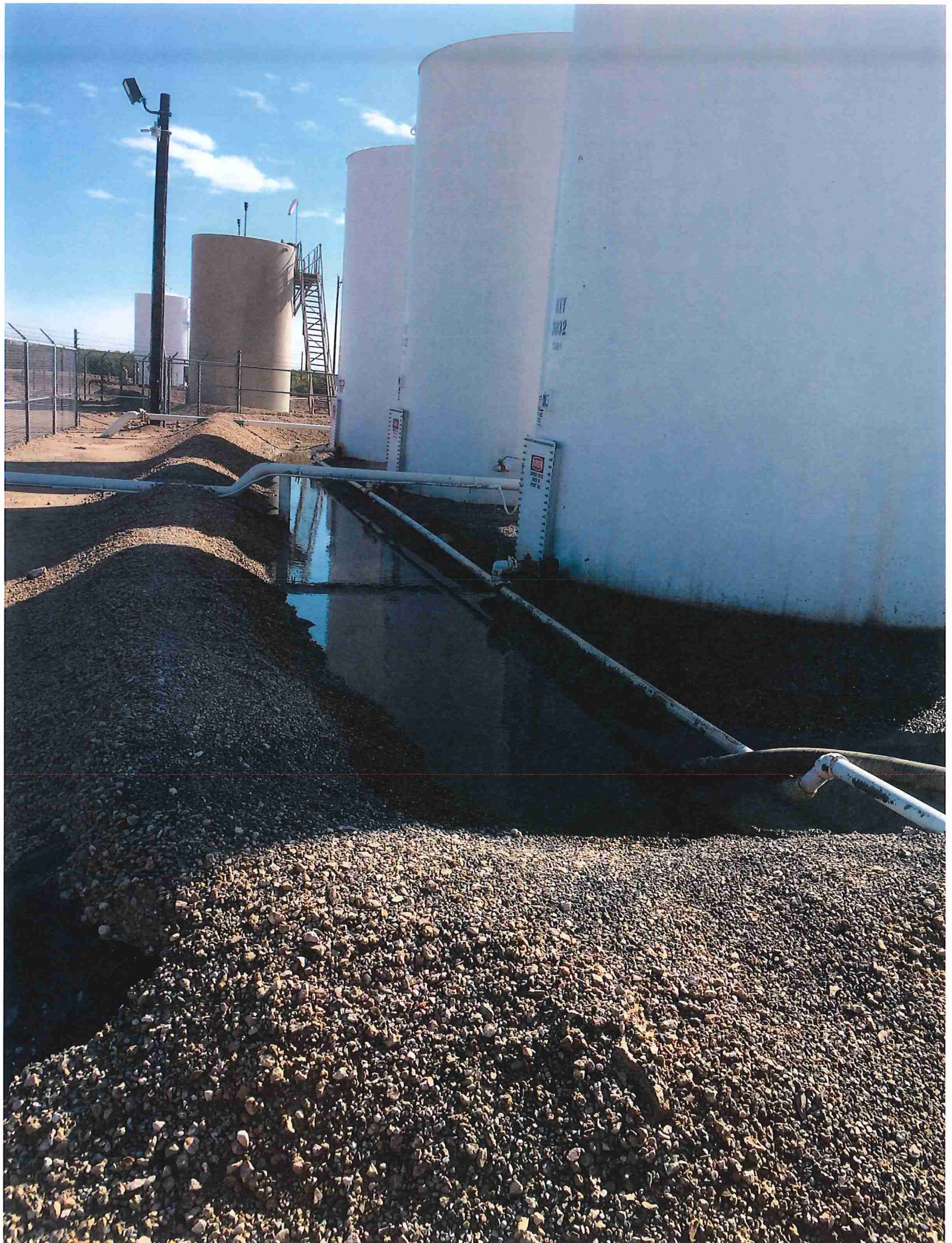
PHOTOGRAPHIC DOCUMENTATION

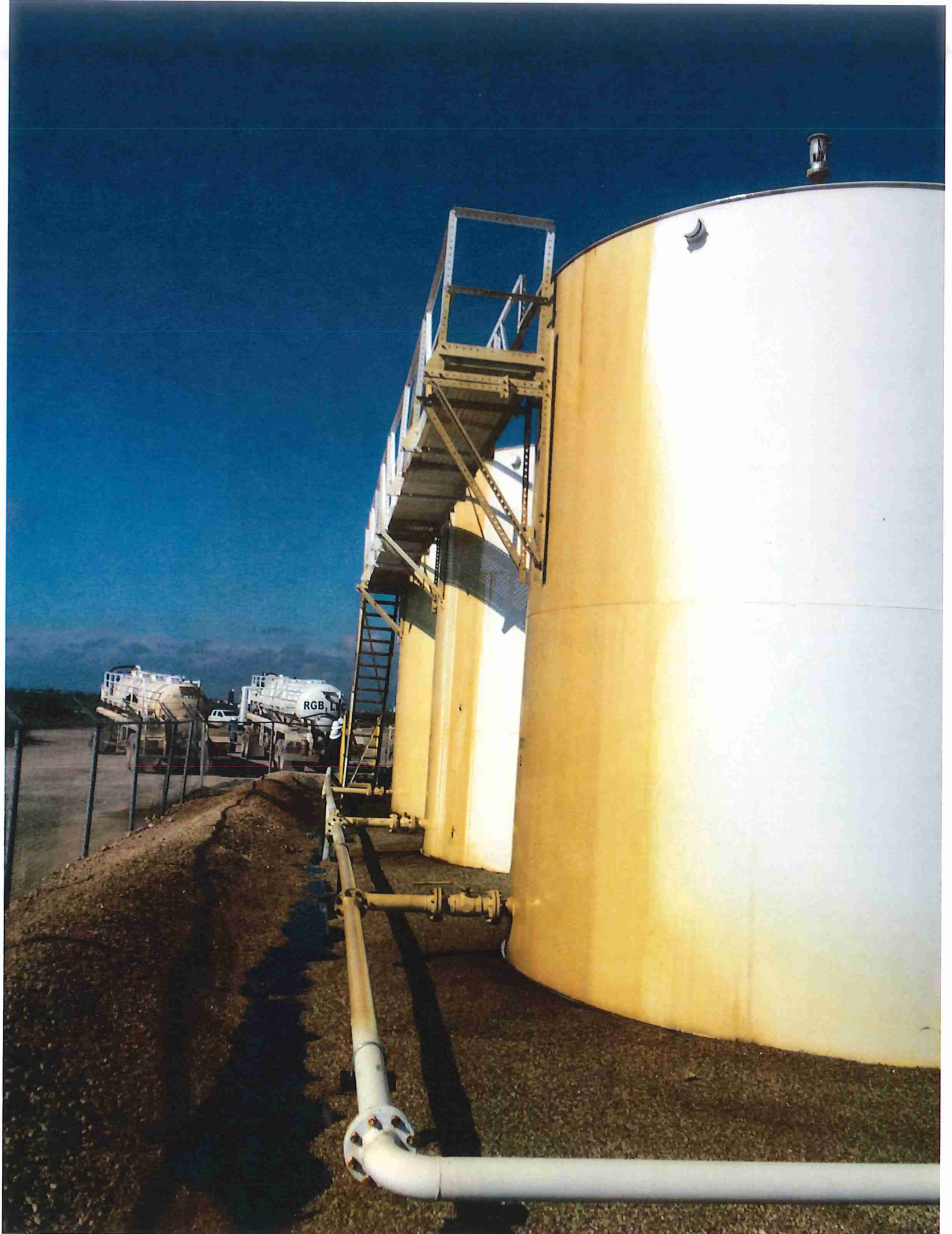
DANGER
CONFINED SPACE
ENTER BY
PERMIT ONLY



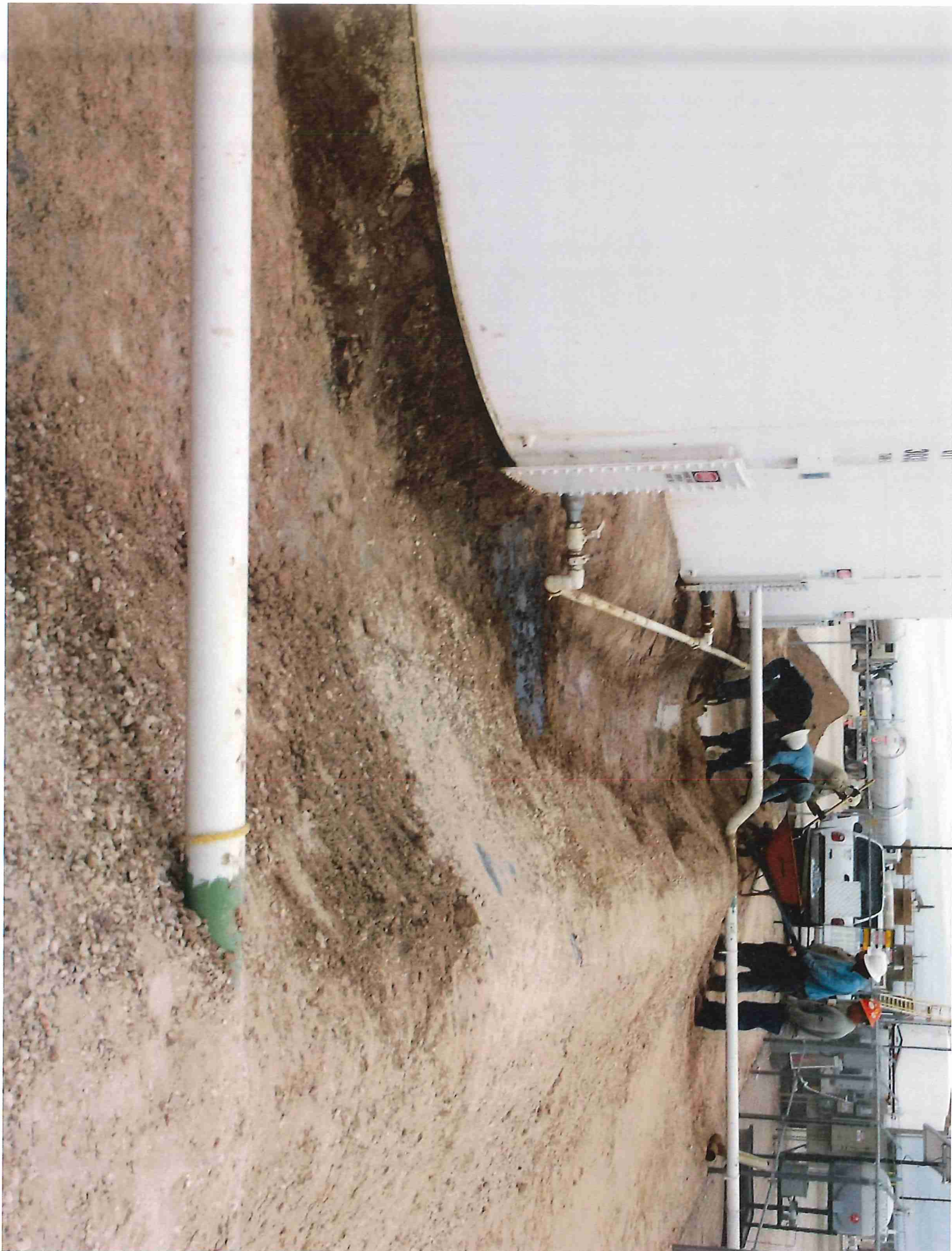
OXY
UNLOAD STATION















[illegible]

DANGER
CONFINED SPACE
ENTRY BY PERMIT ONLY

Smith
WELDED TANK

DATE	
TIME	
BY	
WITNESSED BY	
STAMPED BY	
REMARKS	



DANGER
CONFINED SPACE
ENTER BY
PERMIT ONLY

LABORATORY RESULTS



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

October 21, 2015

SHELDON HITCHCOCK

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: PECOS RIVER STATION: OXY UNLOAD

Enclosed are the results of analyses for samples received by the laboratory on 10/20/15 10:55.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received:	10/20/2015	Sampling Date:	10/20/2015
Reported:	10/21/2015	Sampling Type:	Soil
Project Name:	PECOS RIVER STATION: OXY UNLOAD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: TANK 1 (H502732-01)

BTEX 8021B		mg/L		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	4.43	1.00	10/20/2015	ND	2.04	102	2.00	0.988	
Toluene*	22.9	1.00	10/20/2015	ND	1.86	92.8	2.00	1.59	
Ethylbenzene*	2.82	1.00	10/20/2015	ND	1.84	91.9	2.00	1.91	
Total Xylenes*	51.3	3.00	10/20/2015	ND	6.03	100	6.00	2.01	
Total BTEX	81.4	6.00	10/20/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 109 % 66.2-142

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	10/20/2015	ND	368	92.0	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	
GRO C6-C10	1930	50.0	10/20/2015	ND	201	100	200	2.40		
DRO >C10-C28	6050	50.0	10/20/2015	ND	215	107	200	1.74		

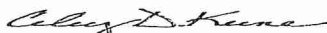
Surrogate: 1-Chlorooctane 126 % 47.2-157

Surrogate: 1-Chlorooctadecane 181 % 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:	10/20/2015	Sampling Date:	10/20/2015
Reported:	10/21/2015	Sampling Type:	Soil
Project Name:	PECOS RIVER STATION: OXY UNLOAD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: TANK 2 (H502732-02)

BTEX 8021B		mg/L		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	2.05	2.00	10/20/2015	ND	2.04	102	2.00	0.988	
Toluene*	34.2	2.00	10/20/2015	ND	1.86	92.8	2.00	1.59	
Ethylbenzene*	13.7	2.00	10/20/2015	ND	1.84	91.9	2.00	1.91	
Total Xylenes*	93.6	6.00	10/20/2015	ND	6.03	100	6.00	2.01	
Total BTEX	143	12.0	10/20/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 66.2-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/20/2015	ND	368	92.0	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	3140	50.0	10/20/2015	ND	201	100	200	2.40	
DRO >C10-C28	6250	50.0	10/20/2015	ND	215	107	200	1.74	

Surrogate: 1-Chlorooctane 136 % 47.2-157

Surrogate: 1-Chlorooctadecane 165 % 52.1-176

Cardinal Laboratories

*—Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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.
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

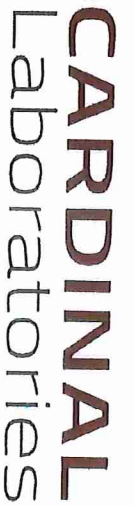
Cardinal Laboratories

* = 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

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



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

November 06, 2015

SHELDON HITCHCOCK

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: PECOS RIVER STATION: OXY UNLOAD

Enclosed are the results of analyses for samples received by the laboratory on 10/30/15 15:15.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/30/2015	Sampling Date:	10/30/2015
Reported:	11/06/2015	Sampling Type:	Soil
Project Name:	PECOS RIVER STATION: OXY UNLOAD	Sampling Condition:	Cool & Intact
Project Number:	701834.037.01	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

Sample ID: S-1 0' (H502858-01)

BTEX 8021B	mg/kg		Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.159	0.050	11/05/2015	ND	2.08	104	2.00	2.22	
Toluene*	0.593	0.050	11/05/2015	ND	2.28	114	2.00	2.94	
Ethylbenzene*	<0.050	0.050	11/05/2015	ND	2.06	103	2.00	3.69	
Total Xylenes*	5.44	0.150	11/05/2015	ND	6.56	109	6.00	3.57	
Total BTEX	6.20	0.300	11/05/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 190 % 73.6-140

TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	139	10.0	11/04/2015	ND	212	106	200	1.40	
DRO >C10-C28	1360	10.0	11/04/2015	ND	218	109	200	2.41	

Surrogate: 1-Chlorooctane 122 % 35-147

Surrogate: 1-Chlorooctadecane 145 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene

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:	10/30/2015	Sampling Date:	10/30/2015
Reported:	11/06/2015	Sampling Type:	Soil
Project Name:	PECOS RIVER STATION: OXY UNLOAD	Sampling Condition:	Cool & Intact
Project Number:	701834.037.01	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

Sample ID: S-1 1' (H502858-02)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/05/2015	ND	2.08	104	2.00	2.22	
Toluene*	<0.050	0.050	11/05/2015	ND	2.28	114	2.00	2.94	
Ethylbenzene*	<0.050	0.050	11/05/2015	ND	2.06	103	2.00	3.69	
Total Xylenes*	<0.150	0.150	11/05/2015	ND	6.56	109	6.00	3.57	
Total BTX	<0.300	0.300	11/05/2015	ND					

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

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	11/04/2015	ND	212	106	200	1.40	
DRO >C10-C28	37.5	10.0	11/04/2015	ND	218	109	200	2.41	


Surrogate: 1-Chlorooctane 121 % 35-147

Surrogate: 1-Chlorooctadecane 136 % 28-171

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:	10/30/2015	Sampling Date:	10/30/2015
Reported:	11/06/2015	Sampling Type:	Soil
Project Name:	PECOS RIVER STATION: OXY UNLOAD	Sampling Condition:	Cool & Intact
Project Number:	701834.037.01	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

Sample ID: S-1 2' (H502858-03)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/05/2015	ND	2.08	104	2.00	2.22	
Toluene*	<0.050	0.050	11/05/2015	ND	2.28	114	2.00	2.94	
Ethylbenzene*	<0.050	0.050	11/05/2015	ND	2.06	103	2.00	3.69	
Total Xylenes*	<0.150	0.150	11/05/2015	ND	6.56	109	6.00	3.57	
Total BTX	<0.300	0.300	11/05/2015	ND					

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

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	11/04/2015	ND	212	106	200	1.40	
DRO >C10-C28	<10.0	10.0	11/04/2015	ND	218	109	200	2.41	

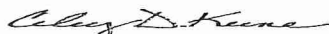
Surrogate: 1-Chlorooctane 115 % 35-147

Surrogate: 1-Chlorooctadecane 130 % 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

Analytical Results For:

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

Received:	10/30/2015	Sampling Date:	10/30/2015
Reported:	11/06/2015	Sampling Type:	Soil
Project Name:	PECOS RIVER STATION: OXY UNLOAD	Sampling Condition:	Cool & Intact
Project Number:	701834.037.01	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

Sample ID: S-1 3' (H502858-04)

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	11/05/2015	ND	2.08	104	2.00	2.22	
Toluene*	<0.050	0.050	11/05/2015	ND	2.28	114	2.00	2.94	
Ethylbenzene*	<0.050	0.050	11/05/2015	ND	2.06	103	2.00	3.69	
Total Xylenes*	<0.150	0.150	11/05/2015	ND	6.56	109	6.00	3.57	
Total BTEX	<0.300	0.300	11/05/2015	ND					

Surrogate: 4-Bromofluorobenzene (PII) 109 % 73.6-140

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	11/04/2015	ND	212	106	200	1.40	
DRO >C10-C28	<10.0	10.0	11/04/2015	ND	218	109	200	2.41	

Surrogate: 1-Chlorooctane 115 % 35-147

Surrogate: 1-Chlorooctadecane 129 % 28-171

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*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

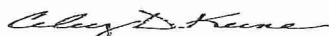
Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

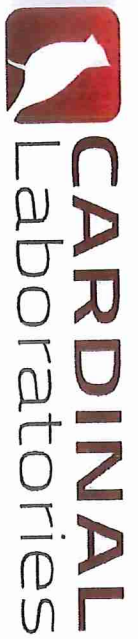
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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: Talon/LPE

Project Manager: S. H. Hincen

Address: 408 W. Texas Ave.

City: Artesia

State: NM Zip: 88210

Phone #: 575-746-8768

Fax #: 575-746-8905

Project #: 701834, 037.01

Project Owner: B. H. Hincen

Project Name: Decos River Station 1 on Y. H. Hincen

Project Location:

Sample Name: S. H. Hincen

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

150285

01 5-10'

02 5-11'

03 5-12'

04 5-13'

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

TPH

13TEX

10/24/19

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