

Electronic Correspondence

April 26, 2017

Ms. Olivia Yu Environmental Specialist, District I Oil Conservation Division, EMNRD Olivia.yu@state.nm.us

Re: Corrective Action Plan - 4564

Enervest Operating Jack B-30 #2 Tank Battery Lightning Strike

Legal: Unit B, Sec 30, T24S R37E, Lea County, NM Latitude/Longitude: 32.1946487/ -103.1989975

Etech Proj. Number: 498-7876-000

Depth to Groundwater: 117-121 feet - Chevron/Texaco Lea County Depth to Groundwater Map

- USGS National Water Information System: Web Interface

Release Type: Produced Water and Crude Oil

Contaminants of Concern (COCs)

TPH

Benzene

BTEX

Chlorides

Threshold Levels

5000 mg/kg

10 mg/kg

50 mg/kg

600 mg/kg

Dear Olivia:

Etech Environmental & Safety Solutions, Inc. (Etech) is submitting the following corrective action plan on the aforementioned site for your review and approval.

Background

On January 15, 2017, lightning struck tanks located at the Enervest Operating Jack B-30 #2 lease causing a release of fluids inside the location's soil containment, and a small amount of fluid on the adjoining well pad and pasture. Approximately 80 barrels (bbls) of produced water and ten (10) bbls of crude oil were released. Approximately 85 bbls of fluid were recovered and disposed. Tank bottoms and solids were jetted using a hot oiler and taken to disposal.

An assessment and initial sampling were conducted of the impacted area on January 23, 2017 by Etech. It was determined that the release was inside the soil containment, on the well pad, and on the pasture. The release impacted an area of approximately 10,270 square feet.

Soil samples were collected by hand auger from four (4) locations of the impacted area (See Annotated Aerial Imagery). The results of field tests of the soil samples determined that chloride levels ranged from less than 320 mg/kg to 1100 mg/kg (See Attachment A, Annotated Aerial Imagery). In addition, the field tested soil samples displaying concentrations less than 320 mg/kg were submitted to Permian Basin Environmental Laboratory (PBELAB) and analyzed for chlorides, TPH, benzene, and BTEX. The laboratory results determined that the chloride levels ranged from 8.5 mg/kg to 68.2 mg/kg, TPH levels ranged from no analytical detection to 8,150 mg/kg, benzene levels ranged from no analytical detection to

APPROVED

By Olivia Yu at 7:42 am, May 04, 2017

NMOCD approves the delineation and remediation workplan for 1RP-4564.

0.0581 mg/kg, and BTEX levels ranged from no analytical detection to 0.6262 mg/kg (See Table 1 Summary of Delineation Sampling Analytical Results below).

On February 9, 2017, a third party contractor was mobilized to the site to begin remediation by removal in an attempt to prevent further vertical migration of constituents of concern. A backhoe was utilized to excavate the impacted area approximately twelve (12) inches to twenty-four (24) inches below ground surface (bgs). A total of approximately four hundred eight (408) cubic yards of impacted soil were excavated and hauled for disposal at Sundance Services, Incorporated.

On February 17, 2017, Etech returned to the site to conduct additional delineation soil sampling and confirmation soil sampling. Delineation soil sampling was conducted utilizing a backhoe to excavate six (6) test trenches and collect twenty-three (23) soil samples labeled Test Trench 1 6.5′, Test Trench 1 8′, Test Trench 2 8′, Test Trench 2 9′, Test Trench 3 6′, Test Trench 3 8.5′, Test Trench 4 5.5′, Test trench 4 7.5′, Test Trench 5 2′ through Test Trench 5 9′, and Test Trench 6 2′ through Test Trench 6 8′ (See Annotated Aerial Imagery). The soil samples were submitted to PBELAB to be analyzed for chloride concentrations. In addition, six (6) confirmation soil samples labeled Bottom Hole 1 6″, Bottom Hole 2 24 ", Bottom Hole 3 18″, Bottom Hole 4 6″, Bottom Hole 5 12″, and Bottom Hole 6 12″ were collected from the bottom of the excavation (See Attachment B, Annotated Aerial Imagery). The soil samples were submitted to PBELAB and analyzed for chlorides, TPH, benzene, and BTEX.

The laboratory results for the samples collected from the test trenches determined that the chloride levels ranged from 14.1 mg/kg to 1,900 mg/kg (See Table 1 Summary of Delineation Sampling Analytical Results below). The laboratory results for the bottom hole samples determined that the chloride levels ranged from 48.8 mg/kg to 1,180 mg/kg, TPH levels ranged from no analytical detection to 10,700 mg/kg, benzene levels ranged from no analytical detection to 0.509 mg/kg, and BTEX levels ranged from no analytical detection to 39.349 mg/kg (See Table 2 Summary of Remediation Sampling Analytical Results below). It should be noted that precipitation from a rain event that occurred approximately on Sunday February 12, 2017 apparently caused chlorides to wick to and concentrate at surface depths of the excavation in the pasture. Sample results from delineation soil samples collected on January 23, 2017 determined the range of chloride concentrations to be 14.9 to 43.2 mg/kg at or above the current excavation depths. The chloride concentrations now range from 1,130 to 1,180 mg/kg as determined from confirmation soil samples collected on February 17, 2017.

On April 11, 2017, Etech returned to the site to conduct additional delineation soil sampling at the Bottom Hole 5 and Test Trench 5 location in order to delineate chloride concentrations to below 600 mg/kg. An air rotary drill rig was utilized to perform one (1) boring and collect three (3) soil samples labeled Boring 1 10', Boring 1 15', and Boring 1 20' (See Attachment B, Annotated Aerial Imagery and Attachment C, Well Record & Log). The soil samples were submitted to PBELAB and analyzed for chlorides.

The laboratory results for the samples collected from the boring determined that chloride levels were below 600 mg/kg and ranged from 6.73 mg/kg to 10.7 mg/kg (See Table 1 Summary of Delineation Sampling Analytical Results below). It appears that a layer of cemented sandstone observed in the bottom of Test Trench 5 and in Boring 1 prevented the further downward migration of chlorides.

		Summa	ry of Delin	Table	e 1 mpling Ana	lytical Resi	ults		
Sample ID	Depth	Date	C6-C12	>C12- C28	>C28- C35	Total TPH (mg/kg)	Benzene (mg/kg)	BTEX (mg/kg)	Chlorides (mg/kg)
Auger Hole 1	6-12"	1/23/17	ND	ND	ND	ND	ND	ND	22.6

Auger Hole 1	12-18"	1/23/17	ND	ND	ND	ND	ND	ND	11.2
Auger Hole 2	18-24"	1/23/17	ND	ND	ND	ND	0.00137	0.00137	43.2
Auger Hole 2	30-36"	1/23/17	ND	ND	ND	ND	ND	ND	9.71
Auger Hole 3	0-6"	1/23/17	1,200	5,710	1,230	8,150	0.0581	26.3181	8.45
Auger Hole 3	6-12"	1/23/17	ND	105	ND	105	0.00171	0.00665	14.9
Auger Hole 4	0-6"	1/23/17	ND	390	65.3	456	ND	0.6262	68.2
Auger Hole 4	6-12"	1/23/17	ND	71.5	ND	71.5	0.00144	0.00144	19.0
Test Trench 1	6.5'	2/17/17	NA	NA	NA	NA	NA	NA	67.6
Test Trench 1	8'	2/17/17	NA	NA	NA	NA	NA	NA	155
Test Trench 2	8'	2/17/17	NA	NA	NA	NA	NA	NA	32.2
Test Trench 2	9'	2/17/17	NA	NA	NA	NA	NA	NA	169
Test Trench 3	6'	2/17/17	NA	NA	NA	NA	NA	NA	14.1
Test Trench 3	8.5'	2/17/17	NA	NA	NA	NA	NA	NA	66.0
Test Trench 4	5.5'	2/17/17	NA	NA	NA	NA	NA	NA	215
Test Trench 4	7.5'	2/17/17	NA	NA	NA	NA	NA	NA	34.2
Test Trench 5	2'	2/17/17	ND	201	53.8	255	NA	NA	395
Test Trench 5	3'	2/17/17	NA	NA	NA	NA	NA	NA	315
Test Trench 5	4'	2/17/17	NA	NA	NA	NA	NA	NA	412
Test Trench 5	5′	2/17/17	NA	NA	NA	NA	NA	NA	257
Test Trench 5	6'	2/17/17	NA	NA	NA	NA	NA	NA	192
Test Trench 5	7'	2/17/17	NA	NA	NA	NA	NA	NA	308
Test Trench 5	8'	2/17/17	NA	NA	NA	NA	NA	NA	418
Test Trench 5	9'	2/17/17	NA	NA	NA	NA	NA	NA	988
Test Trench 6	2'	2/17/17	NA	NA	NA	NA	NA	NA	1,900
Test Trench 6	3'	2/17/17	NA	NA	NA	NA	NA	NA	123
Test Trench 6	4'	2/17/17	NA	NA	NA	NA	NA	NA	261
Test Trench 6	5′	2/17/17	NA	NA	NA	NA	NA	NA	209
Test Trench 6	6′	2/17/17	NA	NA	NA	NA	NA	NA	326
Test Trench 6	7′	2/17/17	NA	NA	NA	NA	NA	NA	387
Test Trench 6	8'	2/17/17	NA	NA	NA	NA	NA	NA	410
Boring 1	10'	4/11/17	NA	NA	NA	NA	NA	NA	10.7
Boring 1	15'	4/11/17	NA	NA	NA	NA	NA	NA	6.73
Boring 1	20'	4/11/17	NA	NA	NA	NA	NA	NA	8.37
ND denotes no analyt			1	l		ı	1		1

ND denotes no analytical detection.

NA denotes not applicable

Bold denotes analytical results above regulatory guidelines

Table 2 Summary of Remediation Sampling Analytical Results									
Sample ID	Depth	Date	C6-C12	>C12- C28	>C28- C35	Total TPH (mg/kg)	Benzene (mg/kg)	BTEX (mg/kg)	Chlorides (mg/kg)
Bottom Hole 1	6"	2/17/17	ND	ND	ND	ND	ND	ND	48.8
Bottom Hole 2	24"	2/17/17	ND	ND	ND	ND	ND	ND	1,130
Bottom Hole 3	18"	2/17/17	ND	42.4	ND	42.4	ND	ND	1,180
Bottom Hole 4	6"	2/17/17	31.4	179	ND	210	ND	ND	609
Bottom Hole 5	12"	2/17/17	4,330	5,520	847	10,700	0.509	39.349	391

Bottom Hole 6	12"	2/17/17	102	375	51.9	529	ND	0.43	1,330

ND denotes no analytical detection.

Bold denotes analytical results above regulatory guidelines

Depth to Groundwater Data

Depth to groundwater data was obtained from the Chevron/Texaco Lea County Depth to Groundwater Map and the USGS National Water Information System: Web Interface. The New Mexico Office of the State Engineer (OSE) Hydrology Bureau collaborates with the U. S. Geological Survey (USGS) to collect, store and make available measurements of water levels in over 2,200 wells across the state of New Mexico. Therefore, OSE groundwater data is part of the USGS National Water Information System database.

The USGS data correlates well with the Chevron/Texaco Lea County Depth to Groundwater Map data. The data points nearest the Jack B-30 #2 indicate that the depth to groundwater is between 117 feet (USGS 321131103115601 24S.37E.19.234442) to 121 feet (USGS 321127103112801 24S.37E.20.333441) below ground surface (bgs). These data points are approximately .22 miles north and .52 miles southeast of the Jack B-30 #2 location, respectively. In contrast, shallower depth to groundwater data points is observed approximately 1.77 miles to over 2.0 miles away from the Jack B-30 #2 location.

Attachment D contains an image of the pertinent area of the Chevron/ Texaco Lea County Depth to Groundwater Map with the location of the Jack B-30 #2 denoted, a map displaying the location of the Jack B-30 #2 and surrounding USGS data points, and the data files for the USGS data points displayed on the map.

Depth and Method of Remediation

The following table displays the depth and method of remediation for each of the sample location areas. In addition, it describes whether the sample location is on the pad or in the pasture and the status of the remediation.

	Sumn	nary of Depth	Table 3 n and Method of Remediation	
Sample Location	Location Type	Depth (bgs)	Method of Remediation	Status
Bottom Hole 1	Pad	6"	Excavation	Completed
Bottom Hole 2	Pasture	30"	Excavation	Pending
Bottom Hole 3	Pasture	24"	Excavation	Pending
Bottom Hole 4	Pad	6"	Excavation	Completed
Bottom Hole 5	Pad	Surface	Excavation/Plastic Liner	Pending
Bottom Hole 6	Pad	Surface	Excavation/Plastic Liner	Pending

Scope of Work

The corrective action for this site will be excavation and disposal of impacted soils. In addition, a plastic liner will be installed at the tank battery area. The corrective action goals for this project will be 600 mg/kg of chlorides, 5,000 mg/kg for TPH, 10 mg/kg for benzene, and 50 mg/kg for BTEX. The particulars for remediation will involve the actions summarized as follows:

- 1. The pasture area represented by the Bottom Hole 2 and Test Trench 2 soil sample locations will be excavated to a depth of 30 inches bgs. The pasture area represented by the Bottom Hole 3 and Test Trench 3 soil sample locations will be excavated to a depth of 24 inches bgs. (See Attachment A, Annotated Aerial Imagery for the demarcation of the two areas).
- 2. At the pad area represented by the Bottom Hole 5 and Test Trench 5 and Bottom Hole 6 and Test Trench 6 soil sample locations:

- Excavate to a depth of 24 inches bgs at the Bottom Hole 5 and Test Trench 5 area.
- Excavate to a depth of 36 inches bgs at the Bottom Hole 6 and Test Trench 6 area.
- See Annotated Aerial Imagery for the demarcation of the two areas.
- 3. Haul all excavated soils to an NMOCD approved facility for disposal.
- 4. Collect bottom hole and sidewall confirmation soil samples from the remediated areas to confirm that corrective action goals have been met.
- 5. If the results of analysis indicate that the contaminants of concern levels are above regulatory threshold levels, additional remediation and confirmation soil sampling will be conducted until corrective action goals are met. If the depth of excavation becomes prohibitive (i.e., six (6) feet or greater) the company may request to be allowed to emplace a plastic liner in the pasture area.
- 6. Once corrective action goals have been met in the pasture area, the pasture area will be backfilled with clean top soil of the kind removed and seeded with BLM #2 seed blend or other seed blend as approved by the NMOCD and BLM. The seeded area will be monitored for growth and the operator will repeat seeding until a successful vegetative cover is achieved.
- 7. Once corrective action goals have been met in the pad area represented by Bottom Hole 5 and Test Trench 5 and Bottom Hole 6 and Test Trench 6 locations, the pad area will be backfilled with clean fill.
- 8. The battery containment will be rebuilt and incorporate the installation of a plastic liner at ground surface. The plastic liner will then be covered with clean fill. The plastic liner will prevent any further recharge to the impacted soils beneath it, so that vertical migration of the constituents of concern is prevented. In addition, the plastic liner will prevent the downward migration of fluids from any potential future releases at the tank battery area.
- 9. The battery will be returned to operation.

Notifications and Special Conditions

- 1. The OCD will be notified prior to the commencement of on-site operations.
- 2. The OCD will be notified prior to each sampling event to allow the opportunity to witness the sampling events. Splits will be made available if requested.
- 3. A final report documenting the closure of the site will be submitted along with a final C-141.

Thank you for your assistance on this matter. Should you have any questions, require additional information, or have any additional stipulations for this site, please contact me at (432) 563-2200 (office) or via email at geoff@etechenv.com.

Respectfully:

Geoff Leking, Project Manager

Heal Lekon,

Etech Environmental & Safety Solutions, Inc.

Attachment A Initial C-141

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 <u>District III</u> 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

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Form C-141

Revised August 8, 2011

Surre	1 0, 1 (1)1 0 / 0	00		
Release Notificati	on and Co	rrective A	ction	
	OPERA	ГOR	X Initia	al Report
Name of Company Enervest Operating	Contact	Penny Dawson		•
Address 1217 Hwy 128 West Jal, NM 88252	Telephone I			
Facility Name Jack B-30 #2	Facility Typ	e Tank Battery		
Surface Owner Randy Crawford Mineral Owner	r State of NM/En	ervest	API No	. 3002525871
LOCATION	ON OF REI	LEASE		
Unit Letter Section Township Range Feet from the Nor	rth/South Line	Feet from the	East/West Line	County
B 30 24 S 37 East 330' No	orth	1725'	East	Lea County
Latitude_ 32 11' 172	Longitud	le_ 103 7' 944	32.194648	37,-103.1989975
NATUR	E OF REL	EASE		
Type of Release Producede Water and Oil			/ 10 Oil Volume R	Recovered 76 bbl PW/9 Oil
Source of Release Tank - Lightening Strike				Hour of Discovery 9:15 am
Was Immediate Notice Given?	If YES, To		a Yu, OCD	
X Yes □ No □ Not Require			ly Tucker, BLM	1
By Whom? Penny Dawson Was a Watercourse Reached?	Date and F			
was a watercourse Reached? ☐ Yes 🗓 No	If YES, Vo	olume Impacting the	ne watercourse.	
If a Watercourse was Impacted, Describe Fully.*	DE	CEIVED		
T,		CEIVED		
	By	Olivia Yu	at 3:16 pm	, Jan 17, 2017
			-	
Describe Cause of Problem and Remedial Action Taken.*				
Lightening struck tanks. Truck picked up oil and water	r from inside	berm and mo	ved oil out of ta	anks to other oil tank.
Picked up water from outside on ground also. Berm pu	ut in around 2	2000, no liner.		
Describe Area Affected and Cleanup Action Taken.*				
300 bbl fiberglass tank and two 300 bbl steel tanks a	offected Liqu	ids inside beri	m and a small a	amount outside. Area
also burned. Move everything off of location, put in li	•			
a.s. 2 2				g
I hereby certify that the information given above is true and complete t				
regulations all operators are required to report and/or file certain release				
public health or the environment. The acceptance of a C-141 report by should their operations have failed to adequately investigate and remed				
or the environment. In addition, NMOCD acceptance of a C-141 report				
federal, state, or local laws and/or regulations.				
		OIL CONS	SERVATION	<u>DIVISION</u>
Signature:			1	1 N/
-	Approved by	Environmental S ₁	pecialist:	
Printed Name: Penny Dawson				
Title: HSE Associate	Approval Da	e: 01/17/20	Expiration I	Date:
E-mail Address: pdawson@enervest.net	Conditions of	Approval:		/
04/47/0047		ached directi	ve	Attached

* Attach Additional Sheets If Necessary

Date: 01/17/2017

nOY1701753606

Phone: 325-387-7226

RP4564

pOY1701753884

Attachment B Annotated Aerial Imagery



Google Earth

Delineation

Lease Name:

Date Assessed:

Enervest Jack B-30 #2 Lightning Strike

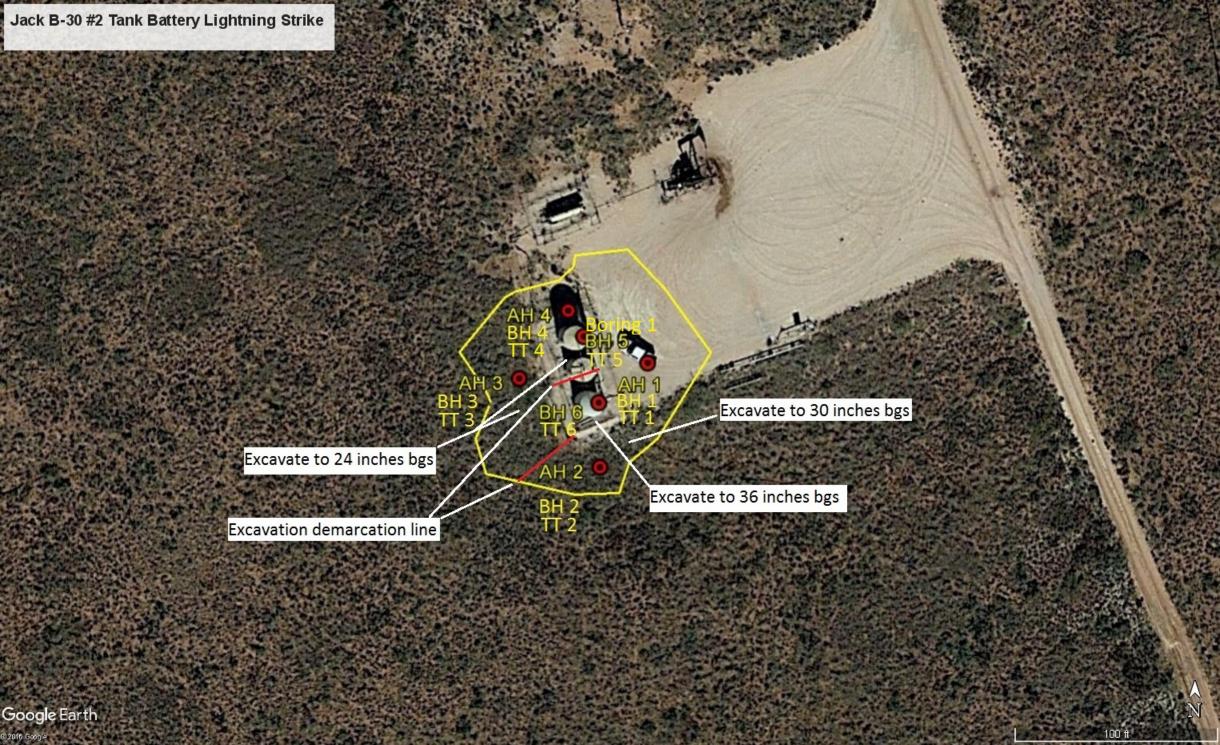
Case No.:

Event 4564

Above results based on field tests.



1/23/17



Attachment C Well Record & Log



LOCATION

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

									<u> </u>			
	OSE POD NU	MBER (WI	ELL NUMBER)				OSE FILE NU	MBER(S)	:			
Z	JACK B-3	0 #2 SB	-1				}					
GENERAL AND WELL LOCATION	WELL OWN		-				PHONE (OPT)	ONAL)	:			
Č	ENERVES	T OPER/	ATING						<u> </u>			7746
ار ت			IG ADDRESS	<u> , , , , , , , , , , , , , , , , , , </u>		, , , , , , , , , , , , , , , , , , , ,	CITY JAL			STATE VM 8	38252	ZIP
VEL	1217 HW	/Y128 W	/EST				JAL		: "	4141		
ě	WELL		DEGRE	ES MINUTES	SECOND	s						
, A.	LOCATIO	N I.	ATITUDE 32	11	40.3	N	• ACCURAC	Y REQUI	ED: ONE TENT	TH OF A SECOND)	
RAI	(FROM GP		ONGITUDE 103	11	56,8	w	• DATUM RE	QUIRED	WGS 84			
SNE	DECCOUNTS	LOES A TONIO	UNGITUDE 1	EET ADDRESS AND COMM		S (SECTION TO	OWNSHJIP, RANG	GE) WHER	E AVAILABLE			
Ö				E KANSAS GO N 5						TURN R TO	LOCAT	TION.
1	FROM IN	TERSEC	HON OF HWY18	E KANSAS GO N S	.57 IVIL TURIN L		MATINGE DI					
	LICENSE NU	MBER	NAME OF LICENSI							LLING COMPAN	Y	
ı	WD1711		EDWARD BRY	AN				1	UB CORPC			
	DRILLING S	TARTED	DRILLING ENDED	DEPTH OF COMPLET	TED WELL (FT)	_	LE DEPTH (FT)		H WATER FIR	ST ENCOUNTER	D (FT)	
	4-11-17		4-11-17	20'		20'		N/A	<u> </u>		-h	
				6 6	•			1	IC WATER LEV	EL IN COMPLET	ED WEL	L (FT)
Z	COMPLETE	D WELL IS	(ARTESIAN	O DRY HOLE	SHALLOW (UNC	ONFINED)		N/A	<u> </u>			
rio	DRILLING F	LUID:	€ AIR	Смир	ADDITIVES - SPI	ECIFY						
DRILLING & CASING INFORMATION	DRILLING M	METHOD:	(■ ROTARY	C HAMMER C	CABLE TOOL	С отн	ER - SPECIFY:					
FOF		(feet bgl)		CASING MATI	ERIAL AND/OR				ASING	CASING W	411	SLOT
N.	FROM	TO	BORE HOLE DIAM	GR.	ADE		ASING NECTION	1	DE DIAM.	THICKNE		SIZE
X			(inches)		asing string, and as of screen)	L	ГҮРЕ		(inches)	(inches)		(inches)
CAS		201	6"	N/A		N/A	· · · · · · · · · · · · · · · · · · ·	N/A		N/A	-	N/A
अं	0	20'	0	IN/FA	<u>, , , , , , , , , , , , , , , , , , , </u>	14/71		1.40	<u> </u>	1411		
Ž						 			:			 ·
	<u> </u>					 			!			
2. DE		 				1			<u> </u>	 		=
,,,	·			1		†		 		 		
						 			:	···		
	-	 	· · · • · · ·					1	 			<u></u>
		 				 						
							.,,		·			
	HTTGEO	(feet bgl)	DODE HOLE	TIGTAN	NULAR SEAL M	ATERIAL	AND	$\overline{}$	AMOUNT	м	ETHOL	OF
-1	FROM	TO	DIAM (inches	· •	PACK SIZE-RANG				(cubic feet)		ACEM	
RIA	0	2'	6"	1 CEMENT				1	<u> </u>	TOPLO	DAD	
ANNULAR MATERIAL	2	20,	6"	6 BAGS OF 3/6	8 HOLEPI UG	·		 	-	TOPLO		
W.				0 27.03 01 370	·	······			<u> </u>			
LAF			<u></u>	 	····							
Ž								 			·	
3. AN							 .		 		,•	
,		 				<u> </u>		1	!	<u> </u>		
		L	<u> </u>	F		 	4/12/	20. 1875	EL RECORD	& LOG (Version	m 06/09	3/2012)
	R OSE INTER E NUMBER	NAL US	·E		POD NUMBER			NUME		TOO LANGE		
1,177	71:11:11:11:11:11:11:11:11:11:11:11:11:1				1 1	-	1 ==**		•			

PAGE 1 OF 2

	DEPTH (feet bgl)		COLOR AND TYPE OF MATERIAL ENCOUNTERED -	ESTIMATED
	FROM	то	THICKNESS (feet)	INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER YIELD FOR BEARING? WATER- (YES / NO) BEARING ZONES (gpm)
	0	1'	1'	TAN FINE SAND - CALICHE	CY 6 N N/A
	1'	б'	5	RED VERY FINE SAND - WITH CLAY	CY @ N N/A
	6'	20'	14 ¹	TAN FINE SAND - CEMENTED SANDSTONE	CY @ N N/A
	TD	20'			CYEN
		 			CYCN
يرا			· · · · · · · · · · · · · · · · · · ·		CACN
VEL.					CY (N
OF,					CYCN
8		 	· · · · · · · · · · · · · · · · · · ·		CY(N
C.			ļ ·		CY(N
8			<u> </u>	**************************************	CYCN
0					CY(N
4. HYDROGEOLOGIC LOG OF WELL				, , , , , , , , , , , , , , , , , , ,	CYCN
(A)	· · · · · · · · · · · · · · · · · · ·	 			CYCN
4,				4, · · · · · · · · · · · · · · · · · · ·	CYCN
				***···	CYCN
					CYCN
				, , , , , , , , , , , , , , , , , , , 	CYCN
		···········			CY CN
					CYCN
					CYCN
	METHODU	JSED TO ES	STIMATE YIELD	OF WATER-BEARING STRATA: C PUMP	TOTAL ESTIMATED
	C AIR LIF	т С	BAILER C	OTHER - SPECIFY:	WELL YIELD (gpm):
NC	WELL TES	T TEST	RESULTS - ATT	ACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCI ME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER	UDING DISCHARGE METHOD, THE TESTING PERIOD.
VISION	MISCELLA	NEOUS IN	FORMATION:		
ER				NG WAS PLUGGED AND ABANDONED UPON COMPLETION	OF SAMPLING.
Test; Rig super	LEA COU				
TEST	PRIN'I NAM	Æ(S) OF D	RILL RIG SUPER	VISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONS	FRUCTION OTHER THAN LICENSEE:
5.1					
	THE UNDE	RSIGNED I	HEREBY CERTIF	IES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIE ESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RE	THE FOREGOING IS A TRUE AND
6. SIGNATURE				O DAYS AFTER COMPLETION OF WELL DRILLING:	SPAD WITH THE STATE SHOWER
SIGN	20	16	%	Edward BRYAN 9	4-13-17
ود	-6-1	5IGNA(I	VRE OF DRILLE	R / PRINT SIGNEE NAME	DATE
· · · · · · · ·		·····			

FOR OSE INTERNAL USE WR-20 WELL RECORD & LOG (Version 06/08/2012)

FILE NUMBER POD NUMBER TRN NUMBER

LOCATION PAGE 2 OF 2

Attachment D Photograph Log



View of front of tank battery looking to the southwest.



View of tank battery containment looking to the northwest.



View of well pad east of the tank battery looking north.



View of pasture south of tank battery looking west.



View of pasture west of tank battery looking northwest.



View of well pad north of tank battery looking south.



View of boring Auger Hole 1.



View of boring Auger Hole 2.



View of boring Auger Hole 3 (center foreground).



View of boring Auger Hole 4.



View of front of tank battery looking west after remediation activities.



View of well pad east of the tank battery looking west after remediation activities.



View of pasture south of tank battery looking southwest after remediation activities.



View of pasture west of tank battery looking northwest after remediation activities.



View of well pad north of tank battery looking south after remediation activities.



View of Bottom Hole 1 sample location.



View of Bottom Hole 2 sample location.



View of Bottom Hole 3 sample location.



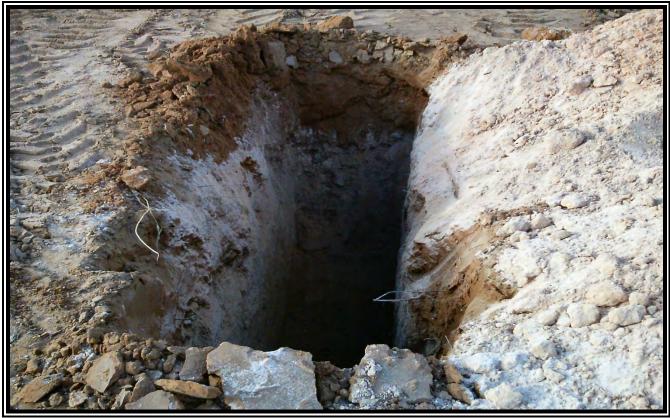
View of Bottom Hole 4 sample location.



View of Test Trench 1 after excavation.



View of Test Trench 2 after excavation.



View of Test Trench 3 after excavation.



View of Test Trench 4 during excavation.



View of Test Trench 5 after excavation.



View of Test Trench 6 after excavation.



View of Test Trench 1 after backfill.



View of Test Trench 2 after backfill.



View of Test Trench 3 after backfill .



View of Test Trench 4 after backfill.



View of Test Trench 5 after backfill.



View of Test Trench 6 after backfill.



View of air rotary drill rig preparing to perform Boring 1.



View of performance of Boring 1.

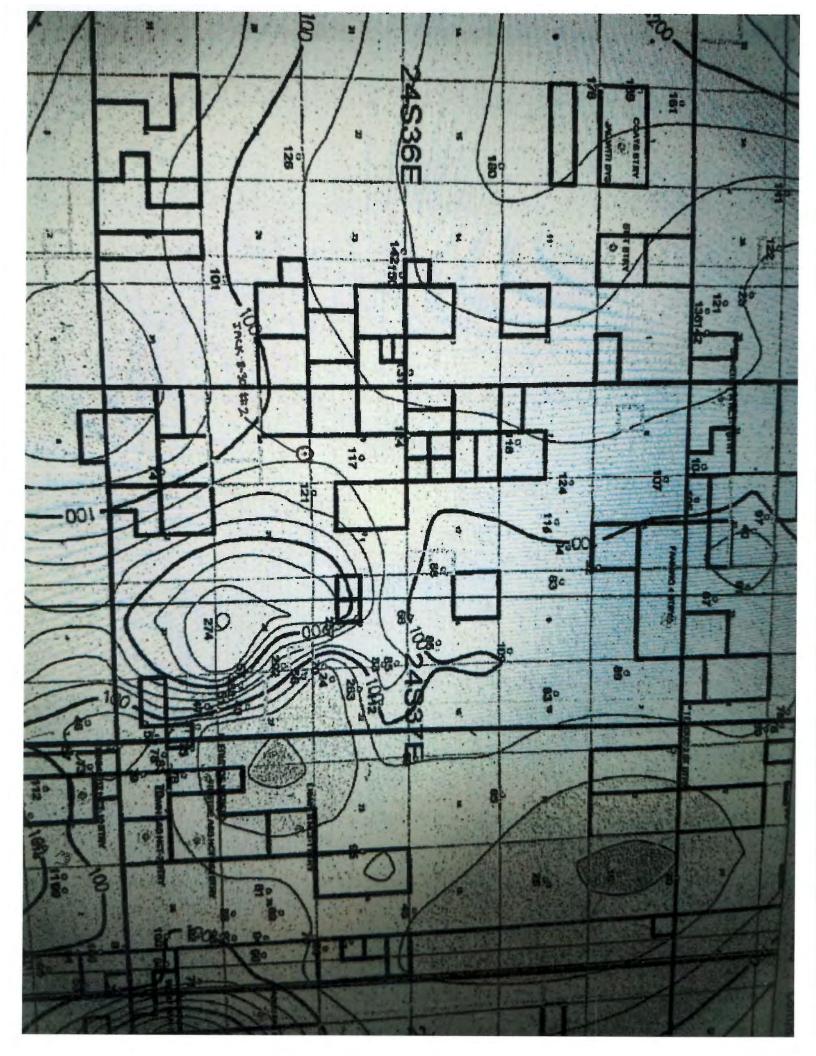


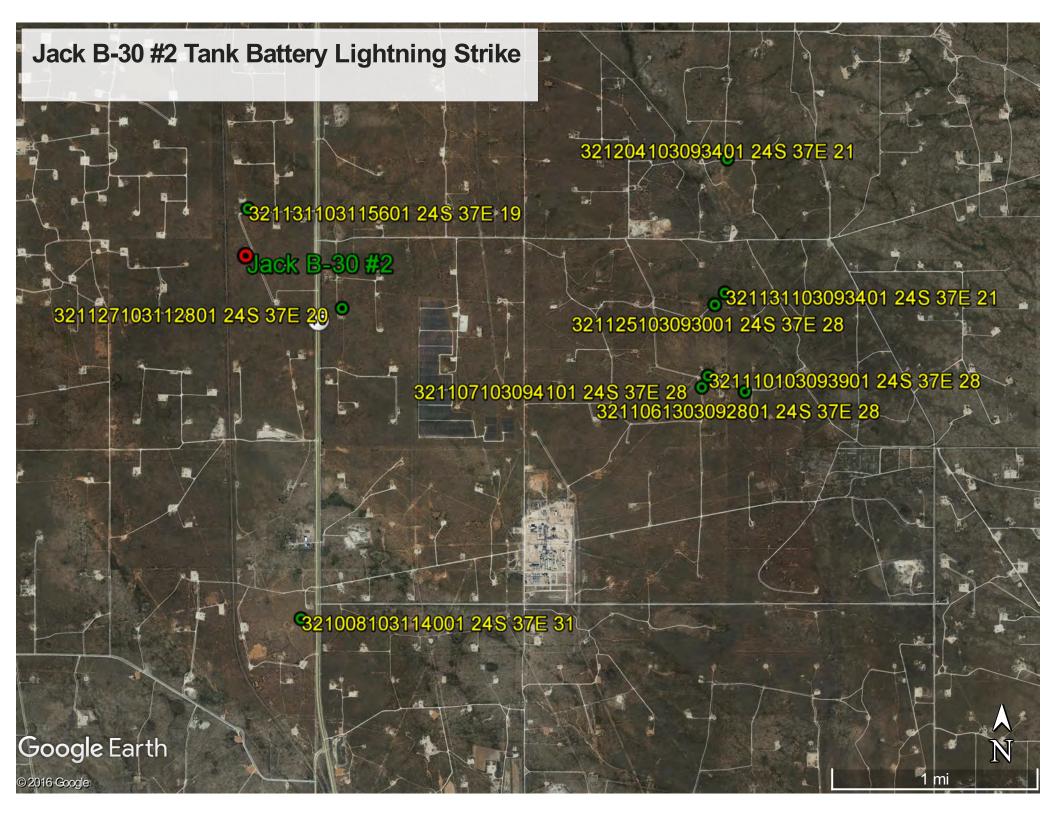
View of Boring 1 at completion.



View of Boring 1 after plugging and abandonment.

Attachment E Depth to Groundwater Data







National Water Information System: Web Interface

USGS Water Resources

Data Category:		Geographic Area:		
Groundwater	V	New Mexico	V	GO

Click to hideNews Bulletins

Please see news on new formats

Full News

Groundwater levels for New Mexico

Search Results -- 1 sites found

Agency code = usgs site_no list = • 321131103093401

San Francisco Contractor Anna Contractor

Minimum number of levels = 1 Save file of selected sites to local disk for future upload

USGS 321131103093401 24S.37E.21.444221

Lea County, New Mexico Latitude 32°11'31", Longitude 103°09'34" NAD27 Land-surface elevation 3,203 feet above NAVD88 The depth of the well is 74 feet below land surface.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

Table of data

Tab-separated data

Graph of data

Reselect period

Date	Time	Water- level date- time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	7 Water- level accuracy	? Status	? Method of measurement	? Measuring agency	7 Source of measurem
1953-03-0	2	1	D 69.64			-	2			

Exp	lana	tion

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Method of measurement	U	Unknown
Measuring agency		Not determined
Source of measurement	U	Source is unknown,
Water-level approval status	A	Approved for publication Processing and review completed.

Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News



USGS Water Resources

Data Category:		Geographic Area:		
Groundwater	~	New Mexico	~	GO
				_

Click to hideNews Bulletins

Please see news on new formats

Full News

Groundwater levels for New Mexico

Search Results -- 1 sites found

Agency code = usgs site_no list =

• 321152103115601

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 321152103115601 24S.37E.19.234442

Lea County, New Mexico Latitude 32°11'52", Longitude 103°11'56" NAD27 Land-surface elevation 3,280 feet above NAVD88 The depth of the well is 160 feet below land surface.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

Table of data

Tab-separated data

Graph of data

Reselect period

Date	Time	Water- level date- time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water- level accuracy	? Status	? Method of measurement	? Measuring agency	Source of measurem
1953-03-0	05		D 117.43				2		U	

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Method of measurement	U	Unknown
Measuring agency		Not determined
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication — Processing and review completed.

Questions about sites/data? Feedback on this web site Automated retrievals Help Data Tips Explanation of terms Subscribe for system changes News



USGS Water Resources

Data Category:		Geographic Area:		
Groundwater	V	New Mexico	V	GO

Click to hideNews Bulletins

Please see news on new formats

• Full News

...

Groundwater levels for New Mexico

Search Results -- 1 sites found

Agency code = usgs site_no list = • 321131103093401

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 321131103093401 24S.37E.21.444221

Lea County, New Mexico Latitude 32°11'31", Longitude 103°09'34" NAD27 Land-surface elevation 3,203 feet above NAVD88 The depth of the well is 74 feet below land surface.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

Table of data

Tab-separated data

Graph of data

Reselect period

Date	Time	Water- level date- time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	7 Water- level accuracy	? Status	7 Method of measurement	? Measuring agency	? Source of measurem
1953-03-0	02		D 69.64			ا	2			

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Method of measurement	U	Unknown
Measuring agency		Not determined
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication Processing and review completed.

Questions about sites/data? Feedback on this web site Automated retrievals Help Data Tips Explanation of terms Subscribe for system changes News



USGS Water Resources

Data Category:	Geographic Area:	_	
Groundwater ~	New Mexico	~	GO
			_

Click to hideNews Bulletins

Please see news on new formats
Full News

Groundwater levels for New Mexico

Search Results -- 1 sites found

Agency code = usgs site_no list =

• 321127103112801

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 321127103112801 24S.37E.20.333441

Lea County, New Mexico
Latitude 32°11'27", Longitude 103°11'28" NAD27
Land-surface elevation 3.268 feet above NAVD88

Land-surface elevation 3,268 feet above NAVD88
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

Table of data	
Tab-separated data	
Graph of data	
Reselect period	

Date	Time	Water- level date- time accuracy		Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	Water- level accuracy		7 Status		7 Method of measurement		? Measuring agency	Source of measurem
1968-02-27			D	122.07				2		R		U		
1970-12-02			D	121.60				2		R		U		
1976-01-15			D	121,55				2				U		
1981-03-18			D	121.12				2				U		
1986-03-05			D	120,69				2				U		
1991-05-21			D	120.78				2				U		
1996-02-28			EJ.	120.54				2				5		

Expla	nation
-------	--------

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Status	R	Site had been pumped recently.
Method of measurement	S	Steel-tape measurement.
Method of measurement	U	Unknown
Measuring agency		Not determined
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication Processing and review completed



USGS Water Resources

 Data Category:
 Geographic Area:

 Groundwater
 ✓

 New Mexico
 ✓

Click to hideNews Bulletins

Please see news on new formats
 Full News

Groundwater levels for New Mexico

Search Results -- 1 sites found

Agency code = usgs site_no list =

• 321008103114001

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 321008103114001 24S.37E.31.243442

Lea County, New Mexico
Latitude 32°10'08", Longitude 103°11'40" NAD27
Land-surface elevation 3,240 feet above NAVD88
The depth of the well is 100 feet below land surface.
This well is completed in the Ogallala Formation (1210GLL) local aquifer.

Output formats

Output formats					
Table of data		- 5			
Tab-separated data		1.			
Graph of data					
Reselect period					

Date	Time	Water- level date- time accuracy	Wate level, feet belov land surfa	v	Water level, feet above specific vertical datum	Referenced vertical datum	? Water- level accuracy	? Status	? Method of measurement	7 Measuring agency	? Source of measurem
1965-10-22			0	75.98			2			j	
1970-12-10		1	0	74.96			2			J	
1976-01-14			0	76.17			2		1	1	
1981-03-18		I	0	74.17			2		- 1	J	
1986-03-11		t	0	74.90			2		1	j	
1991-05-22		1	0	73.53			2		t	J	

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Method of measurement	υ	Unknown
Measuring agency		Not determined
Source of measurement	Ú	Source is unknown.
Water-level approval status	A	Approved for publication Processing and review completed.



USGS Water Resources

 Data Category:
 Geographic Area:

 Groundwater
 ✓

 New Mexico
 ✓

 GO

Click to hideNews Bulletins

Please see news on new formats
Full News

Groundwater levels for New Mexico

Search Results -- 1 sites found

Agency code = usgs site_no list = • 321125103093001

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 321125103093001 24S.37E.28.242233

Lea County, New Mexico
Latitude 32°11'28", Longitude 103°09'37" NAD27
Land-surface elevation 3,205.00 feet above NGVD29
The depth of the well is 770 feet below land surface.
This well is completed in the Santa Rosa Sandstone (231SNRS) local aquifer.

Output formats

Table of data

Tab-separated data

Graph of data

Reselect period

Date	Time	Water- level date- time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	7 Water- level accuracy	? Status	? Method of measurement	? Measuring agency	Source of measurement
1981-03-17		D	255.43				2		j.	
1986-03-05		D	263.20			. 2	2	- 1	J	
1991-05-21		D	277.06			100	2	1	J	
1996-02-28		D	291.80			10	2		3	
2001-03-07		D	303.74			- 1	2		5	

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Method of measurement	S	Steel-tape measurement.
Method of measurement	U	Unknown
Measuring agency		Not determined
Source of measurement	A	Reported by another government agency (do not use "A" if reported by owner, use "O"),
Source of measurement	u	Source is unknown.
Water-level approval status	A	Approved for publication Processing and review completed.



USGS Water Resources

Data Category:		Geographic Area:		
Groundwater	~	New Mexico	V	GO

Click to hideNews Bulletins

Please see news on new formats

• Full News

Groundwater levels for New Mexico

Search Results -- 1 sites found

Agency code = usgs site_no list =

• 321106103092801

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 321106103092801 24S.37E.28.424241

Lea County, New Mexico
Latitude 32°11'06", Longitude 103°09'28" NAD27
Land-surface elevation 3,199 feet above NAVD88
The depth of the well is 110 feet below land surface.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Table of data

Tab-separated data

Graph of data

Reselect period

Date	Time	Water- level date- time accuracy	fee bel lan	ater rel, et low ad rface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water- level accuracy	? Status	? Method of measurement	? Measuring agency	7 Source of measurement
1977-10-27			D	57.24				2			

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Method of measurement	U	Unknown
Measuring agency		Not determined
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication - Processing and review completed.

Questions about sites/data? Feedback on this web site Automated retrievals Help Data Tips Explanation of terms Subscribe for system changes News



USGS Water Resources

Data Category:		Geographic Area:		
Groundwater	V	New Mexico	~	GO
	_			_

Click to hideNews Bulletins

Please see news on new formats

Full News

Groundwater levels for New Mexico

Search Results -- 1 sites found

Agency code = usgs

site_no list =

• 321107103094101

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 321107103094101 24S.37E.28.241444

Lea County, New Mexico
Latitude 32°11'07", Longitude 103°09'41" NAD27
Land-surface elevation 3,203 feet above NAVD88
The depth of the well is 80 feet below land surface.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

Table of data

Tab-separated data

Graph of data

Reselect period

Date	Time	Water- level date- time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	7 Water- level accuracy	? Status	7 Method of measurement	? Measuring agency	Source of measurem
1976-01-14			57.71				2		J	

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Method of measurement	U	Unknown
Measuring agency		Not determined
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication Processing and review completed.

Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News



USGS Water Resources

 Data Category:
 Geographic Area:

 Groundwater
 ✓

 New Mexico
 ✓

Click to hideNews Bulletins

Please see news on new formats

• Full News

Groundwater levels for New Mexico

Search Results -- 1 sites found

Agency code = usgs site_no list =

• 321110103093901

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 321110103093901 24S.37E.28.24213

Lea County, New Mexico Latitude 32°11'10", Longitude 103°09'39" NAD27 Land-surface elevation 3,201 feet above NAVD88

Land-surface elevation 3,201 feet above NAVD88

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

Date	Time	? Water- level date- time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	Water- level accuracy	7 Status	7 Method of measurement	? Measuring agency	Source of measuren
1965-10-14		C	64.46							
1968-02-26						2	R			
1970-12-10		0				2	P	U		
1976-01-14						2				
		D				2		U		
1981-03-17		D	64.39			2		U		

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Status	P	Site was being pumped.
Status	R	Site had been pumped recently.
Method of measurement	U	Unknown
Measuring agency		Not determined
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication Processing and review completed.

Attachment F Analytical Results

PERMIAN BASIN ENVIRONMENTAL LAB, LP 1400 Rankin Hwy Midland, TX 79701



Analytical Report

Prepared for:

Tim McMinn
E Tech Environmental & Safety Solutions, Inc.
13000 West County Road 100
Odessa, TX 79765

Project: Jack B-30 #2 Tank Battery Lightening Strike

Project Number: 498-7876-000 Location: JAL NM

Lab Order Number: 7A25001



NELAP/TCEQ # T104704156-13-3

Report Date: 02/01/17

13000 West County Road 100Project Number:498-7876-000Odessa TX, 79765Project Manager:Tim McMinn

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Auger Hole 1 6-12"	7A25001-01	Soil	01/23/17 14:20	01-25-2017 09:16
Auger Hole 1 12-18"	7A25001-02	Soil	01/23/17 14:25	01-25-2017 09:16
Auger Hole 2 18-24"	7A25001-03	Soil	01/23/17 15:05	01-25-2017 09:16
Auger Hole 2 30-36"	7A25001-04	Soil	01/23/17 15:10	01-25-2017 09:16
Auger Hole 3 0-6"	7A25001-05	Soil	01/23/17 15:40	01-25-2017 09:16
Auger Hole 3 6-12"	7A25001-06	Soil	01/23/17 15:45	01-25-2017 09:16
Auger Hole 4 0-6"	7A25001-07	Soil	01/23/17 16:10	01-25-2017 09:16
Auger Hole 4 6-12"	7A25001-08	Soil	01/23/17 16:15	01-25-2017 09:16

Fax: (432) 563-2213

Project: Jack B-30 #2 Tank Battery Lightening Strike

13000 West County Road 100 Odessa TX, 79765 Project Number: 498-7876-000 Project Manager: Tim McMinn Fax: (432) 563-2213

Auger Hole 1 6-12" 7A25001-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin E	Environmer	ıtal Lab, l	L .P.				
Organics by GC									
Benzene	ND	0.00104	mg/kg dry	1	P7A3012	01/26/17	01/27/17	EPA 8021B	
Toluene	ND	0.00208	mg/kg dry	1	P7A3012	01/26/17	01/27/17	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P7A3012	01/26/17	01/27/17	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P7A3012	01/26/17	01/27/17	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P7A3012	01/26/17	01/27/17	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		111 %	75-1	25	P7A3012	01/26/17	01/27/17	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		92.5 %	75-1	25	P7A3012	01/26/17	01/27/17	EPA 8021B	
General Chemistry Parameters by EPA	/ Standard Method	ds							
Chloride	22.6	1.04	mg/kg dry	1	P7A2704	01/27/17	01/30/17	EPA 300.0	
% Moisture	4.0	0.1	%	1	P7A2601	01/26/17	01/26/17	% calculation	
Total Petroleum Hydrocarbons C6-C35	by EPA Method 80	015M							
C6-C12	ND	26.0	mg/kg dry	1	P7A3005	01/27/17	01/28/17	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P7A3005	01/27/17	01/28/17	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P7A3005	01/27/17	01/28/17	TPH 8015M	
Surrogate: 1-Chlorooctane		92.9 %	70-1	30	P7A3005	01/27/17	01/28/17	TPH 8015M	
Surrogate: o-Terphenyl		96.3 %	70-1	30	P7A3005	01/27/17	01/28/17	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	01/27/17	01/28/17	calc	

Project: Jack B-30 #2 Tank Battery Lightening Strike

13000 West County Road 100 Project Number: 498-7876-000 Odessa TX, 79765 Project Manager: Tim McMinn

Fax: (432) 563-2213

Project Number: 498-7876-000

Auger Hole 1 12-18" 7A25001-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Peri	mian Basin E	nvironmen	ıtal Lab, I	P.				
Organics by GC									
Benzene	ND	0.00105	mg/kg dry	1	P7A3012	01/26/17	01/27/17	EPA 8021B	
Toluene	ND	0.00211	mg/kg dry	1	P7A3012	01/26/17	01/27/17	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P7A3012	01/26/17	01/27/17	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P7A3012	01/26/17	01/27/17	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P7A3012	01/26/17	01/27/17	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		99.2 %	75-1	25	P7A3012	01/26/17	01/27/17	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		93.4 %	75-1	25	P7A3012	01/26/17	01/27/17	EPA 8021B	
General Chemistry Parameters by EPA / Star	ıdard Metho	ds							
Chloride	11.2	1.05	mg/kg dry	1	P7A2704	01/27/17	01/30/17	EPA 300.0	
% Moisture	5.0	0.1	%	1	P7A2601	01/26/17	01/26/17	% calculation	
Total Petroleum Hydrocarbons C6-C35 by El	PA Method 8	015M							
C6-C12	ND	26.3	mg/kg dry	1	P7A3005	01/27/17	01/28/17	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P7A3005	01/27/17	01/28/17	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P7A3005	01/27/17	01/28/17	TPH 8015M	
Surrogate: 1-Chlorooctane		92.4 %	70-1	30	P7A3005	01/27/17	01/28/17	TPH 8015M	
Surrogate: o-Terphenyl		96.0 %	70-1	30	P7A3005	01/27/17	01/28/17	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	01/27/17	01/28/17	calc	

Project: Jack B-30 #2 Tank Battery Lightening Strike

13000 West County Road 100 Odessa TX, 79765 Project Number: 498-7876-000 Project Manager: Tim McMinn Fax: (432) 563-2213

Auger Hole 2 18-24" 7A25001-03 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin E	nvironmen	ıtal Lab, I	P.				
Organics by GC									
Benzene	0.00137	0.00109	mg/kg dry	1	P7A3012	01/26/17	01/27/17	EPA 8021B	
Toluene	ND	0.00217	mg/kg dry	1	P7A3012	01/26/17	01/27/17	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P7A3012	01/26/17	01/27/17	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P7A3012	01/26/17	01/27/17	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P7A3012	01/26/17	01/27/17	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		92.8 %	75-1	25	P7A3012	01/26/17	01/27/17	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		104 %	75-1	25	P7A3012	01/26/17	01/27/17	EPA 8021B	
General Chemistry Parameters by EPA	/ Standard Method	ds							
Chloride	43.2	1.09	mg/kg dry	1	P7A2704	01/27/17	01/30/17	EPA 300.0	
% Moisture	8.0	0.1	%	1	P7A2601	01/26/17	01/26/17	% calculation	
Total Petroleum Hydrocarbons C6-C35	by EPA Method 80	015M							
C6-C12	ND	27.2	mg/kg dry	1	P7A3005	01/27/17	01/28/17	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P7A3005	01/27/17	01/28/17	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P7A3005	01/27/17	01/28/17	TPH 8015M	
Surrogate: 1-Chlorooctane		91.4 %	70-1	30	P7A3005	01/27/17	01/28/17	TPH 8015M	
Surrogate: o-Terphenyl		97.7 %	70-1	30	P7A3005	01/27/17	01/28/17	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	01/27/17	01/28/17	calc	

Project: Jack B-30 #2 Tank Battery Lightening Strike

Fax: (432) 563-2213

13000 West County Road 100 Odessa TX, 79765 Project Number: 498-7876-000 Project Manager: Tim McMinn

Auger Hole 2 30-36" 7A25001-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Peri	nian Basin E	nvironmen	ıtal Lab, I	P.				
Organics by GC									
Benzene	ND	0.00110	mg/kg dry	1	P7A3012	01/26/17	01/27/17	EPA 8021B	
Toluene	ND	0.00220	mg/kg dry	1	P7A3012	01/26/17	01/27/17	EPA 8021B	
Ethylbenzene	ND	0.00110	mg/kg dry	1	P7A3012	01/26/17	01/27/17	EPA 8021B	
Xylene (p/m)	ND	0.00220	mg/kg dry	1	P7A3012	01/26/17	01/27/17	EPA 8021B	
Xylene (o)	ND	0.00110	mg/kg dry	1	P7A3012	01/26/17	01/27/17	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		91.1 %	75-1	25	P7A3012	01/26/17	01/27/17	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		103 %	75-1	25	P7A3012	01/26/17	01/27/17	EPA 8021B	
General Chemistry Parameters by EPA / Sta	ndard Metho	ds							
Chloride	9.71	1.10	mg/kg dry	1	P7A2704	01/27/17	01/30/17	EPA 300.0	
% Moisture	9.0	0.1	%	1	P7A2601	01/26/17	01/26/17	% calculation	
Total Petroleum Hydrocarbons C6-C35 by E	PA Method 8	015M							
C6-C12	ND	27.5	mg/kg dry	1	P7A3005	01/27/17	01/28/17	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P7A3005	01/27/17	01/28/17	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P7A3005	01/27/17	01/28/17	TPH 8015M	
Surrogate: 1-Chlorooctane		92.0 %	70-1	30	P7A3005	01/27/17	01/28/17	TPH 8015M	
Surrogate: o-Terphenyl		96.1 %	70-1	30	P7A3005	01/27/17	01/28/17	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	01/27/17	01/28/17	calc	

Project: Jack B-30 #2 Tank Battery Lightening Strike

13000 West County Road 100 Odessa TX, 79765 Project Number: 498-7876-000 Project Manager: Tim McMinn Fax: (432) 563-2213

Auger Hole 3 0-6" 7A25001-05 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin E	Environme	ıtal Lab, l	L .P.				
Organics by GC									
Benzene	0.0581	0.0211	mg/kg dry	20	P7A3012	01/26/17	01/27/17	EPA 8021B	
Toluene	1.56	0.0421	mg/kg dry	20	P7A3012	01/26/17	01/27/17	EPA 8021B	
Ethylbenzene	5.76	0.0211	mg/kg dry	20	P7A3012	01/26/17	01/27/17	EPA 8021B	
Xylene (p/m)	13.4	0.0421	mg/kg dry	20	P7A3012	01/26/17	01/27/17	EPA 8021B	
Xylene (o)	5.54	0.0211	mg/kg dry	20	P7A3012	01/26/17	01/27/17	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		101 %	75-1	25	P7A3012	01/26/17	01/27/17	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.8 %	75-1	25	P7A3012	01/26/17	01/27/17	EPA 8021B	
General Chemistry Parameters by El	PA / Standard Method	ds							
Chloride	8.45	1.05	mg/kg dry	1	P7A2704	01/27/17	01/30/17	EPA 300.0	
% Moisture	5.0	0.1	%	1	P7A2601	01/26/17	01/26/17	% calculation	
Total Petroleum Hydrocarbons C6-C	235 by EPA Method 80	015M							
C6-C12	1200	263	mg/kg dry	10	P7A3005	01/27/17	01/28/17	TPH 8015M	
>C12-C28	5710	263	mg/kg dry	10	P7A3005	01/27/17	01/28/17	TPH 8015M	
>C28-C35	1230	263	mg/kg dry	10	P7A3005	01/27/17	01/28/17	TPH 8015M	
Surrogate: 1-Chlorooctane		115 %	70-1	30	P7A3005	01/27/17	01/28/17	TPH 8015M	
Surrogate: o-Terphenyl		112 %	70-1	30	P7A3005	01/27/17	01/28/17	TPH 8015M	
Total Petroleum Hydrocarbon	8150	263	mg/kg dry	10	[CALC]	01/27/17	01/28/17	calc	
C6-C35									

Project: Jack B-30 #2 Tank Battery Lightening Strike

13000 West County Road 100 Odessa TX, 79765 Project Manager: Tim McMinn

Project Number: 498-7876-000

Auger Hole 3 6-12" 7A25001-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
	Pern	nian Basin E	nvironme	ıtal Lab, l	L .P.				
Organics by GC									
Benzene	0.00171	0.00104	mg/kg dry	1	P7A3012	01/26/17	01/27/17	EPA 8021B	
Toluene	ND	0.00208	mg/kg dry	1	P7A3012	01/26/17	01/27/17	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P7A3012	01/26/17	01/27/17	EPA 8021B	
Xylene (p/m)	0.00309	0.00208	mg/kg dry	1	P7A3012	01/26/17	01/27/17	EPA 8021B	
Xylene (o)	0.00185	0.00104	mg/kg dry	1	P7A3012	01/26/17	01/27/17	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		97.2 %	75-1	25	P7A3012	01/26/17	01/27/17	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		89.6 %	75-1	25	P7A3012	01/26/17	01/27/17	EPA 8021B	
General Chemistry Parameters by E	CPA / Standard Method	ds							
Chloride	14.9	1.04	mg/kg dry	1	P7A2704	01/27/17	01/30/17	EPA 300.0	
% Moisture	4.0	0.1	%	1	P7A2601	01/26/17	01/26/17	% calculation	
Total Petroleum Hydrocarbons C6-0	C35 by EPA Method 8	015M							
C6-C12	ND	26.0	mg/kg dry	1	P7A3006	01/27/17	01/28/17	TPH 8015M	
>C12-C28	105	26.0	mg/kg dry	1	P7A3006	01/27/17	01/28/17	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P7A3006	01/27/17	01/28/17	TPH 8015M	
Surrogate: 1-Chlorooctane		93.9 %	70-1	30	P7A3006	01/27/17	01/28/17	TPH 8015M	
Surrogate: o-Terphenyl		98.9 %	70-1	30	P7A3006	01/27/17	01/28/17	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	105	26.0	mg/kg dry	1	[CALC]	01/27/17	01/28/17	calc	

Fax: (432) 563-2213

Project: Jack B-30 #2 Tank Battery Lightening Strike

13000 West County Road 100 Project Number: 498-7876-000 Odessa TX, 79765 Project Manager: Tim McMinn

Fax: (432) 563-2213

Auger Hole 4 0-6" 7A25001-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin E	nvironmen	tal Lab, l	L .P.				
Organics by GC									
Benzene	ND	0.0233	mg/kg dry	20	P7A3012	01/26/17	01/27/17	EPA 8021B	
Toluene	ND	0.0465	mg/kg dry	20	P7A3012	01/26/17	01/27/17	EPA 8021B	
Ethylbenzene	0.458	0.0233	mg/kg dry	20	P7A3012	01/26/17	01/27/17	EPA 8021B	
Xylene (p/m)	0.107	0.0465	mg/kg dry	20	P7A3012	01/26/17	01/27/17	EPA 8021B	
Xylene (o)	0.0612	0.0233	mg/kg dry	20	P7A3012	01/26/17	01/27/17	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		102 %	75-1.	25	P7A3012	01/26/17	01/27/17	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		87.0 %	75-1.	25	P7A3012	01/26/17	01/27/17	EPA 8021B	
General Chemistry Parameters by EI	PA / Standard Metho	ds							
Chloride	68.2	1.16	mg/kg dry	1	P7A2704	01/27/17	01/30/17	EPA 300.0	
% Moisture	14.0	0.1	%	1	P7A2601	01/26/17	01/26/17	% calculation	
Total Petroleum Hydrocarbons C6-C	35 by EPA Method 8	015M							
C6-C12	ND	29.1	mg/kg dry	1	P7A3006	01/27/17	01/28/17	TPH 8015M	
>C12-C28	390	29.1	mg/kg dry	1	P7A3006	01/27/17	01/28/17	TPH 8015M	
>C28-C35	65.3	29.1	mg/kg dry	1	P7A3006	01/27/17	01/28/17	TPH 8015M	
Surrogate: 1-Chlorooctane		91.8 %	70-1.	30	P7A3006	01/27/17	01/28/17	TPH 8015M	
Surrogate: o-Terphenyl		95.9 %	70-1.	30	P7A3006	01/27/17	01/28/17	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	456	29.1	mg/kg dry	1	[CALC]	01/27/17	01/28/17	calc	

Project: Jack B-30 #2 Tank Battery Lightening Strike

13000 West County Road 100 Odessa TX, 79765 Project Number: 498-7876-000 Project Manager: Tim McMinn Fax: (432) 563-2213

Auger Hole 4 6-12'	•
7A25001-08 (Soil)	

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin E	nvironmer	ıtal Lab, I					
Organics by GC									
Benzene	0.00144	0.00108	mg/kg dry	1	P7A3012	01/26/17	01/27/17	EPA 8021B	
Toluene	ND	0.00215	mg/kg dry	1	P7A3012	01/26/17	01/27/17	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P7A3012	01/26/17	01/27/17	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P7A3012	01/26/17	01/27/17	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P7A3012	01/26/17	01/27/17	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		109 %	75-1	25	P7A3012	01/26/17	01/27/17	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		91.5 %	75-1	25	P7A3012	01/26/17	01/27/17	EPA 8021B	
General Chemistry Parameters by E	PA / Standard Method	ls							
Chloride	19.0	1.08	mg/kg dry	1	P7A2704	01/27/17	01/30/17	EPA 300.0	
% Moisture	7.0	0.1	%	1	P7A2601	01/26/17	01/26/17	% calculation	
Total Petroleum Hydrocarbons C6-C	C35 by EPA Method 80)15M							
C6-C12	ND	26.9	mg/kg dry	1	P7A3006	01/27/17	01/28/17	TPH 8015M	
>C12-C28	71.5	26.9	mg/kg dry	1	P7A3006	01/27/17	01/28/17	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P7A3006	01/27/17	01/28/17	TPH 8015M	
Surrogate: 1-Chlorooctane		91.7 %	70-1	30	P7A3006	01/27/17	01/28/17	TPH 8015M	
Surrogate: o-Terphenyl		94.5 %	70-1	30	P7A3006	01/27/17	01/28/17	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	71.5	26.9	mg/kg dry	1	[CALC]	01/27/17	01/28/17	calc	

Project: Jack B-30 #2 Tank Battery Lightening Strike

Source

Spike

%REC

13000 West County Road 100

Odessa TX, 79765

Project Number: 498-7876-000 Project Manager: Tim McMinn Fax: (432) 563-2213

RPD

Organics by GC - Quality Control Permian Basin Environmental Lab, L.P.

Reporting

0.109

0.122

0.220

0.110

0.0646

0.0613

0.00208

0.00104

0.00208

0.00104

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P7A3012 - General Preparation	ı (GC)									
Blank (P7A3012-BLK1)				Prepared: 0	1/26/17 A	nalyzed: 01	/27/17			
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00200	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	0.0527		"	0.0600		87.9	75-125			
Surrogate: 4-Bromofluorobenzene	0.0668		"	0.0600		111	75-125			
LCS (P7A3012-BS1)				Prepared: 0	1/26/17 A	nalyzed: 01	/27/17			
Benzene	0.0910	0.00100	mg/kg wet	0.100		91.0	70-130			
Toluene	0.0967	0.00200	"	0.100		96.7	70-130			
Ethylbenzene	0.112	0.00100	"	0.100		112	70-130			
Xylene (p/m)	0.201	0.00200	"	0.200		101	70-130			
Xylene (o)	0.0970	0.00100	"	0.100		97.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.0713		"	0.0600		119	75-125			
Surrogate: 1,4-Difluorobenzene	0.0562		"	0.0600		93.6	75-125			
LCS Dup (P7A3012-BSD1)				Prepared: 0	1/26/17 A	nalyzed: 01	/27/17			
Benzene	0.0901	0.00100	mg/kg wet	0.100		90.1	70-130	0.950	20	
Toluene	0.0964	0.00200	"	0.100		96.4	70-130	0.311	20	
Ethylbenzene	0.114	0.00100	"	0.100		114	70-130	1.81	20	
Xylene (p/m)	0.200	0.00200	"	0.200		100	70-130	0.588	20	
Xylene (o)	0.0987	0.00100	"	0.100		98.7	70-130	1.70	20	
Surrogate: 4-Bromofluorobenzene	0.0762		"	0.0600		127	75-125			S-G0
Surrogate: 1,4-Difluorobenzene	0.0578		"	0.0600		96.3	75-125			
Matrix Spike (P7A3012-MS1)	Sour	rce: 7A25001	1-01	Prepared: 0	1/26/17 A	nalyzed: 01	/27/17			
Benzene	0.122	0.00104	mg/kg dry	0.104	ND	118	80-120			

0.104

0.104

0.208

0.104

0.0625

0.0625

ND

ND

ND

ND

105

117

105

106

103

98.1

80-120

80-120

80-120

80-120

75-125

75-125

Toluene

Ethylbenzene

Xylene (p/m)

Surrogate: 4-Bromofluorobenzene

Surrogate: 1,4-Difluorobenzene

Xylene (o)

Project: Jack B-30 #2 Tank Battery Lightening Strike

13000 West County Road 100

Odessa TX, 79765

Project Number: 498-7876-000

Fax: (432) 563-2213

Project Manager: Tim McMinn

Organics by GC - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Matrix Spike Dup (P7A3012-MSD1)	Sour	rce: 7A25001	1-01	Prepared: 0	1/26/17 A	nalyzed: 0	1/27/17			
Benzene	0.147	0.00104	mg/kg dry	0.104	ND	141	80-120	18.4	20	QM-07
Toluene	0.140	0.00208	"	0.104	ND	134	80-120	24.6	20	QM-07
Ethylbenzene	0.142	0.00104	"	0.104	ND	137	80-120	15.6	20	QM-07
Xylene (p/m)	0.229	0.00208	"	0.208	ND	110	80-120	4.10	20	
Xylene (o)	0.123	0.00104	"	0.104	ND	118	80-120	10.8	20	
Surrogate: 1,4-Difluorobenzene	0.0608		"	0.0625		97.4	75-125			
Surrogate: 4-Bromofluorobenzene	0.0681		"	0.0625		109	75-125			

13000 West County Road 100 Project Number: 498-7876-000 Odessa TX, 79765 Project Manager: Tim McMinn

Fax: (432) 563-2213

General Chemistry Parameters by EPA / Standard Methods - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC	•	RPD	•
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P7A2601 - *** DEFAULT PREP ***										
Blank (P7A2601-BLK1)				Prepared &	Analyzed:	01/26/17				
% Moisture	ND	0.1	%							
Duplicate (P7A2601-DUP1)	Sour	ce: 7A25002	-19	Prepared &	Analyzed:	01/26/17				
% Moisture	16.0	0.1	%		16.0			0.00	20	
Duplicate (P7A2601-DUP2)	Sour	ce: 7A25009	-02	Prepared &	Analyzed:	01/26/17				
% Moisture	3.0	0.1	%		3.0			0.00	20	
Batch P7A2704 - *** DEFAULT PREP ***										
Blank (P7A2704-BLK1)				Prepared: (01/27/17 A	nalyzed: 01	/30/17			
Chloride	ND	1.00	mg/kg wet							
LCS (P7A2704-BS1)				Prepared: (01/27/17 A	nalyzed: 01	/30/17			
Chloride	429	1.00	mg/kg wet	400		107	80-120			
LCS Dup (P7A2704-BSD1)				Prepared: (01/27/17 A	nalyzed: 01	/30/17			
Chloride	428	1.00	mg/kg wet	400		107	80-120	0.133	20	
Duplicate (P7A2704-DUP1)	Sour	ce: 7A24011	-01	Prepared: (01/27/17 A	nalyzed: 01	/30/17			
Chloride	15900	58.1	mg/kg dry	*	16900			6.19	20	
Duplicate (P7A2704-DUP2)	Sour	ce: 7A25001	-04	Prepared: (01/27/17 A	nalyzed: 01	/30/17			
Chloride	9.74	1.10	mg/kg dry		9.71			0.226	20	
Matrix Spike (P7A2704-MS1)	Sour	ce: 7A24011	-01	Prepared: (01/27/17 A	nalyzed: 01	/30/17			
Chloride	16200	58.1	mg/kg dry	2330	16900	NR	80-120			

Odessa TX, 79765

Project: Jack B-30 #2 Tank Battery Lightening Strike

13000 West County Road 100 Project Number: 498-7876-000

Fax: (432) 563-2213

Project Number: 498-7876-000 Project Manager: Tim McMinn

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P7A3005 - TX 1005										
Blank (P7A3005-BLK1)				Prepared: (01/27/17 A	nalyzed: 01	/28/17			
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	86.0		"	100		86.0	70-130			
Surrogate: o-Terphenyl	45.1		"	50.0		90.2	70-130			
LCS (P7A3005-BS1)				Prepared: (01/27/17 A	nalyzed: 01	/28/17			
C6-C12	921	25.0	mg/kg wet	1000		92.1	75-125			
>C12-C28	807	25.0	"	1000		80.7	75-125			
Surrogate: 1-Chlorooctane	97.0		"	100		97.0	70-130			
Surrogate: o-Terphenyl	47.1		"	50.0		94.3	70-130			
LCS Dup (P7A3005-BSD1)				Prepared: (01/27/17 A	nalyzed: 01	/28/17			
C6-C12	902	25.0	mg/kg wet	1000		90.2	75-125	2.17	20	
>C12-C28	834	25.0	"	1000		83.4	75-125	3.24	20	
Surrogate: 1-Chlorooctane	113		"	100		113	70-130			
Surrogate: o-Terphenyl	50.6		"	50.0		101	70-130			
Matrix Spike (P7A3005-MS1)	Sour	rce: 7A25001	1-04	Prepared: (01/27/17 A	nalyzed: 01	/28/17			
C6-C12	913	27.5	mg/kg dry	1100	ND	83.1	75-125			
>C12-C28	912	27.5	"	1100	ND	83.0	75-125			
Surrogate: 1-Chlorooctane	122		"	110		111	70-130			
Surrogate: o-Terphenyl	52.7		"	54.9		95.9	70-130			
Batch P7A3006 - TX 1005										
Blank (P7A3006-BLK1)				Prepared: (01/27/17 A	nalyzed: 01	/28/17			
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	102		"	100		102	70-130			
Surrogate: o-Terphenyl	54.0		"	50.0		108	70-130			

Project: Jack B-30 #2 Tank Battery Lightening Strike

Fax: (432) 563-2213

13000 West County Road 100 Odessa TX, 79765 Project Number: 498-7876-000 Project Manager: Tim McMinn

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P7A3006 - TX 1005										
LCS (P7A3006-BS1)				Prepared: (01/27/17 A	nalyzed: 01	/28/17			
C6-C12	828	25.0	mg/kg wet	1000		82.8	75-125			
>C12-C28	816	25.0	"	1000		81.6	75-125			
Surrogate: 1-Chlorooctane	107		"	100		107	70-130			
Surrogate: o-Terphenyl	56.3		"	50.0		113	70-130			
LCS Dup (P7A3006-BSD1)				Prepared: (01/27/17 A	nalyzed: 01	/28/17			
C6-C12	815	25.0	mg/kg wet	1000		81.5	75-125	1.62	20	
>C12-C28	820	25.0	"	1000		82.0	75-125	0.514	20	
Surrogate: 1-Chlorooctane	120		"	100		120	70-130			
Surrogate: o-Terphenyl	54.2		"	50.0		108	70-130			
Matrix Spike (P7A3006-MS1)	Sou	rce: 7A24008	3-03	Prepared: (01/27/17 A	nalyzed: 01	/29/17			
C6-C12	966	27.8	mg/kg dry	1110	29.3	84.3	75-125			
>C12-C28	1010	27.8	"	1110	188	74.1	75-125			QM-05
Surrogate: 1-Chlorooctane	136		"	111		122	70-130			
Surrogate: o-Terphenyl	71.9		"	55.6		129	70-130			
Matrix Spike Dup (P7A3006-MSD1)	Sou	rce: 7A24008	3-03	Prepared: (01/27/17 A	nalyzed: 01	/29/17			
C6-C12	894	27.8	mg/kg dry	1110	29.3	77.8	75-125	7.95	20	
>C12-C28	1000	27.8	"	1110	188	73.4	75-125	0.957	20	QM-05
Surrogate: 1-Chlorooctane	134		"	111		120	70-130			
Surrogate: o-Terphenyl	70.8		"	55.6		128	70-130			

E Tech Environmental & Safety Solutions, Inc.

Project: Jack B-30 #2 Tank Battery Lightening Strike

Fax: (432) 563-2213

13000 West County Road 100 Project Number: 498-7876-000 Odessa TX, 79765 Project Manager: Tim McMinn

Notes and Definitions

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate. QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery. QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable. BULK Samples received in Bulk soil containers Analyte DETECTED DET ND Analyte NOT DETECTED at or above the reporting limit NR Not Reported dry Sample results reported on a dry weight basis Relative Percent Difference RPD

	Burnon Burnon			
Report Approved By:	Juit	Date:	2/1/2017	

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

Permian Basin Environmental Lab, L.P.

LCS

MS

Dup

Laboratory Control Spike

Matrix Spike

Duplicate

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

E Tech Environmental & Safety Solutions, Inc. Project: Jack B-30 #2 Tank Battery Lightening Strike Fax: (432) 563-2213

13000 West County Road 100 Project Number: 498-7876-000 Odessa TX, 79765 Project Manager: Tim McMinn

Relinquished	Relinquis	Relinquished by		Special Instructions:			ß	سر	6	þ	ع	دل	1	1	LAB # (lab use only)	ORDER #:	(lab use of lly)	(Table)							
shed by	hed by	The D		nstru			7	P	P	P	P	7	Pu	Aw]#			San	i e	City	Cor	Cor	Pro	
		N. S.		ction		٠	AUDES	AUGES	AWES	Auges	Auges?	Auges	Auges	Amaes			ン		Sampler Signature: Though Tellenny	Telephone No:	City/State/Zip:	Company Address:	Company Name	Project Manager:	
)	c)		S.			8	7	3	1	' '						ア	>	Sign	ne N	ie/Zij	y Ad	Ŋ Na	Van	
			ļ.,.				I	HOTE	Hele	Hole	HULE	4016	HO/E	Hote	 <u> </u>	1) 	•	natur	0		dres	me	iger:	ant at.
							Hole	6	e	10	0	6	P	16	FIELD CODE		'n		 K.	4.	Ιz		lm	l <u>-</u> i	
							2	工	IJ	اررا	h	h	_			1	分		8	432-563-2200	Midland, Texas 79708	PO Box 8469	tech	Tim McMinn	
											ľ					1	_		F	3-220	d, Te	× 846	Envir	Minr	
_							6	3	6	Ģ	30	Ø.	12-	6~12					1	ĕ	xas 7	l [©]	onme		
Date Time	Date	22. pa					-1211	0-611	-1211	0-61	30-36"	118-2411	12-1811	12"				_	3	•	9708		Etech Environmental &		
		3									=	_							5				Safe		
<u>`</u> "	=	=																					yy Sc		
` ™	Time	Time		ſ												1							Safety Solutions,		
R	₽ 0	<u> </u>		-										-		1							s, Inc.		• • • • •
Received by ELOT:	Received by:	$\gtrsim_{\mathbb{S}}^{2}$		İ			\							73	Date Sampled								'		
by E	by	$N_{ ilde{p}}$					`											 12							
T01:	1	2		-	\dashv													ı							
d	-	36					1615	1610	1545	1540	1510	150	1425	1420	Time Sampled				n n	77					
1		1)					Ŋ	O	51	ਹ	0	জ	25	0					-mai	X					
				ŀ			∀						_	_	No. of Containers	1	2	Geogra Wetecher	 H	Fax No: 432-563-2213					
				F			X	X	X	X	M	X	X	Ø	Ice	h	, G	7		2-563					0 12
															HNO ₃	Preservation	3	99	t och	2213					12800 W. Hwy 80 E Odessa, Texas 79765
			1.	-	믬		\vdash][\parallel	ᆜ				님	HCI H₂SO₄	vation	į	\$ 7	emv.						V. Hv
				f											NaOH	& # of		5.5	\$ \$						vy 80
															Na ₂ S ₂ O ₃	& # of Containers		Webnicow Webnicow							E 9765
•		1/25		-	뷔	밁	\dashv								None Other (Specify)	ners	(ٳڎڎۣ							
Date	Date	Date 1/25//7		-			<u> </u>		ليبا						DW=Drinking Water SL=Sludge	廿		>		ı	. I	. 1		l :	
?							←						— .	S	GW = Groundwater S≃Soil/Solid	Vatrix				Repo				-	
Timpe	=	, S.		-			IX)		EZ I	\boxtimes	1 21	X	X	図	NP=Non-Potable Specify Other TPH: 418.1 8015M 1005 10	Ц	1	T		Report Format:		Po		Project Name:	
3		ime `` <i>j(</i> o													Cations (Ca, Mg, Na, K)			П		rmat	Ţ	Project Loc:	Project #:	ct Na	
	(d)		Sam	Lab											Anions (CI, SO4, CO3, HCO3)		TCLP:				PO #	, ,	#	Be:	
	by Sai	Custody seals on contain Custody seals on cooler Custody seals on cooler Sample Hand Delivered	ple C	Laboratory Comments:	붜		붜	ᆜ	붜	片	님	님	\exists	H	SAR / ESP / CEC Metals: As Ag Ba Cd Cr Pb Hg		TCLP:	┪┃		X		0	HOG	100	
	mpler.	seals seals	ontai e of t	<u>ર</u>	ㅐ				H						Volatiles	 		1 ⊿		Standard		(N)	00 %	广	Pho
	/Clien	30 E0 S	iners Head	mm _c											Semivolatiles			nalyz		ard		73	13	B	ax:
	by Sampler/Client Rep. ? by Courier? UPS	Custody seals on container(s) Custody seals on cooler(s) Sample Hand Delivered	Sample Containers Intact? VOCs Free of Headspace?	str.	丩	Щ	X								BTEX 8021B)5030 or BTEX 826	30 [ze For:					200	30	432-(432-6
\	DHL '2	s) ser(s)	*5 ⁻ 53	-	뷝		\exists		片	\exists	긤				N.O.R.M.	<u> </u>				TRRP			2 X	#2	Phone: 432-563-2200 Fax: 432-563-2213
>				t			図	N N	X	X	X	<u>M</u>	X	凶	Chlorides			1		_			1 3	A	200
=/		M	X	₹.												<u> </u>		Į І		⊒ ≅			0 %	Tennik	
がユ	1	IJ,	ى م	4	뷔	믬	뮈	님	믬	片	믬	님	\dashv	片			· ·	$\ \ $		NPDES			0		
\geq	N Lone Star	zzz	zz												RUSH TAT (Pre-Schedule) 24,	48, 7	72 hrs					.		Barre	Phone: 432-563-2200 Fax: 432-563-2213
	벽						X	×	凶	囟	X	図	X	凶	Standard TAT	<u> </u>							ـــا	2	18 of

PERMIAN BASIN ENVIRONMENTAL LAB, LP 1400 Rankin Hwy Midland, TX 79701



Analytical Report

Prepared for:

Tim McMinn
E Tech Environmental & Safety Solutions, Inc.
13000 West County Road 100
Odessa, TX 79765

Project: Enervest JackB-30 #2 Tank Battery Lightning Strike

Project Number: 498-7876-000 Location: Jal, NM

Lab Order Number: 7B20006



NELAP/TCEQ # T104704156-13-3

Report Date: 03/08/17

13000 West County Road 100Project Number: 498-7876-000Odessa TX, 79765Project Manager: Tim McMinn

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Bottom Hole 1 6"	7B20006-01	Soil	02/17/17 13:15	02-20-2017 09:35
Test Trench 1 6.5'	7B20006-02	Soil	02/17/17 17:35	02-20-2017 09:35
Test Trench 1 8'	7B20006-03	Soil	02/17/17 17:50	02-20-2017 09:35
Bottom Hole 2 24"	7B20006-04	Soil	02/17/17 13:20	02-20-2017 09:35
Test Trench 2 8'	7B20006-05	Soil	02/17/17 16:55	02-20-2017 09:35
Test Trench 2 9'	7B20006-06	Soil	02/17/17 17:00	02-20-2017 09:35
Bottom Hole 3 18"	7B20006-07	Soil	02/17/17 13:25	02-20-2017 09:35
Test Trench 3 6'	7B20006-08	Soil	02/17/17 17:10	02-20-2017 09:35
Test Trench 3 8.5'	7B20006-09	Soil	02/17/17 17:20	02-20-2017 09:35
Bottom Hole 4 6"	7B20006-10	Soil	02/17/17 13:30	02-20-2017 09:35
Test Trench 4 5.5'	7B20006-11	Soil	02/17/17 17:25	02-20-2017 09:35
Test Trench 4 7.5'	7B20006-12	Soil	02/17/17 17:30	02-20-2017 09:35
Bottom Hole 5 12"	7B20006-13	Soil	02/17/17 10:55	02-20-2017 09:35
Test Trench 5 2'	7B20006-14	Soil	02/17/17 11:00	02-20-2017 09:35
Test Trench 5 3'	7B20006-15	Soil	02/17/17 11:05	02-20-2017 09:35
Test Trench 5 4'	7B20006-16	Soil	02/17/17 16:05	02-20-2017 09:35
Test Trench 5 5'	7B20006-17	Soil	02/17/17 16:10	02-20-2017 09:35
Test Trench 5 6'	7B20006-18	Soil	02/17/17 16:15	02-20-2017 09:35
Test Trench 5 7'	7B20006-19	Soil	02/17/17 16:20	02-20-2017 09:35
Test Trench 5 8'	7B20006-20	Soil	02/17/17 16:25	02-20-2017 09:35
Test Trench 5 9'	7B20006-21	Soil	02/17/17 16:30	02-20-2017 09:35
Bottom Hole 6 12"	7B20006-22	Soil	02/17/17 10:40	02-20-2017 09:35
Test Trench 6 2'	7B20006-23	Soil	02/17/17 10:45	02-20-2017 09:35
Test Trench 6 3'	7B20006-24	Soil	02/17/17 10:50	02-20-2017 09:35
Test Trench 6 4'	7B20006-25	Soil	02/17/17 15:30	02-20-2017 09:35
Test Trench 6 5'	7B20006-26	Soil	02/17/17 15:35	02-20-2017 09:35
Test Trench 6 6'	7B20006-27	Soil	02/17/17 15:40	02-20-2017 09:35
Test Trench 6 7'	7B20006-28	Soil	02/17/17 15:50	02-20-2017 09:35
Test Trench 6 8'	7B20006-29	Soil	02/17/17 16:00	02-20-2017 09:35

Fax: (432) 563-2213

13000 West County Road 100 Project Number: 498-7876-000 Odessa TX, 79765 Project Manager: Tim McMinn

Fax: (432) 563-2213

Bottom Hole 1 6" 7B20006-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Peri	nian Basin E	nvironmen	tal Lab, I	L.P.				
Organics by GC									
Benzene	ND	0.00103	mg/kg dry	1	P7B2203	02/21/17	02/21/17	EPA 8021B	
Toluene	ND	0.00206	mg/kg dry	1	P7B2203	02/21/17	02/21/17	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P7B2203	02/21/17	02/21/17	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P7B2203	02/21/17	02/21/17	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P7B2203	02/21/17	02/21/17	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		101 %	75-1.	25	P7B2203	02/21/17	02/21/17	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %	75-1.	25	P7B2203	02/21/17	02/21/17	EPA 8021B	
General Chemistry Parameters by EPA / Sta	andard Metho	ds							
Chloride	48.8	1.03	mg/kg dry	1	P7B2318	02/23/17	02/24/17	EPA 300.0	
% Moisture	3.0	0.1	%	1	P7B2102	02/21/17	02/21/17	% calculation	
Total Petroleum Hydrocarbons C6-C35 by I	EPA Method 8	015M							
C6-C12	ND	25.8	mg/kg dry	1	P7B2207	02/21/17	02/21/17	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P7B2207	02/21/17	02/21/17	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P7B2207	02/21/17	02/21/17	TPH 8015M	
Surrogate: 1-Chlorooctane		98.4 %	70-1.	30	P7B2207	02/21/17	02/21/17	TPH 8015M	
Surrogate: o-Terphenyl		109 %	70-1.	30	P7B2207	02/21/17	02/21/17	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	02/21/17	02/21/17	calc	

13000 West County Road 100 Project Number: 498-7876-000 Odessa TX, 79765 Project Manager: Tim McMinn

Fax: (432) 563-2213

Test Trench 1 6.5' 7B20006-02 (Soil)

								1
	Reporting							
Analyte Resu	lt Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	67.6	1.04 mg/kg dry	1	P7B2318	02/23/17	02/24/17	EPA 300.0
% Moisture	4.0	0.1 %	1	P7B2102	02/21/17	02/21/17	% calculation

13000 West County Road 100 Project Number: 498-7876-000 Odessa TX, 79765 Project Manager: Tim McMinn

Fax: (432) 563-2213

Test Trench 1 8' 7B20006-03 (Soil)

	Reporting							
Analyte Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	155	1.08 mg/kg dry	1	P7B2403	02/24/17	02/27/17	EPA 300.0
% Moisture	7.0	0.1 %	1	P7B2102	02/21/17	02/21/17	% calculation

13000 West County Road 100 Project Number: 498-7876-000 Odessa TX, 79765 Project Manager: Tim McMinn

Fax: (432) 563-2213

Bottom Hole 2 24" 7B20006-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin E	Environme	ıtal Lab, l	L .P.				
Organics by GC									
Benzene	ND	0.00106	mg/kg dry	1	P7B2203	02/21/17	02/21/17	EPA 8021B	
Toluene	ND	0.00213	mg/kg dry	1	P7B2203	02/21/17	02/21/17	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P7B2203	02/21/17	02/21/17	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P7B2203	02/21/17	02/21/17	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P7B2203	02/21/17	02/21/17	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		105 %	75-1	25	P7B2203	02/21/17	02/21/17	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		113 %	75-1	25	P7B2203	02/21/17	02/21/17	EPA 8021B	
General Chemistry Parameters by EPA	/ Standard Method	ds							
Chloride	1130	1.06	mg/kg dry	1	P7B2403	02/24/17	02/27/17	EPA 300.0	
% Moisture	6.0	0.1	%	1	P7B2102	02/21/17	02/21/17	% calculation	
Total Petroleum Hydrocarbons C6-C35	by EPA Method 80	015M							
C6-C12	ND	26.6	mg/kg dry	1	P7B2207	02/21/17	02/21/17	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P7B2207	02/21/17	02/21/17	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P7B2207	02/21/17	02/21/17	TPH 8015M	
Surrogate: 1-Chlorooctane		92.1 %	70-1	30	P7B2207	02/21/17	02/21/17	TPH 8015M	
Surrogate: o-Terphenyl		103 %	70-1	30	P7B2207	02/21/17	02/21/17	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	02/21/17	02/21/17	calc	

13000 West County Road 100 Project Number: 498-7876-000 Odessa TX, 79765 Project Manager: Tim McMinn

Fax: (432) 563-2213

Test Trench 2 8' 7B20006-05 (Soil)

	Reporting							
Analyte Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	32.2	1.10 mg/kg dry	1	P7B2403	02/24/17	02/27/17	EPA 300.0
% Moisture	9.0	0.1 %	1	P7B2102	02/21/17	02/21/17	% calculation

13000 West County Road 100 Project Number: 498-7876-000 Odessa TX, 79765 Project Manager: Tim McMinn

Fax: (432) 563-2213

Test Trench 2 9' 7B20006-06 (Soil)

	Reporting							
Analyte Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	169	1.12 mg/kg dry	1	P7B2403	02/24/17	02/27/17	EPA 300.0
% Moisture	11.0	0.1 %	1	P7B2102	02/21/17	02/21/17	% calculation

13000 West County Road 100 Project Number: 498-7876-000 Odessa TX, 79765 Project Manager: Tim McMinn

Fax: (432) 563-2213

Bottom Hole 3 18" 7B20006-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
	Pern	nian Basin E	Environme	ıtal Lab, l	L .P.				
Organics by GC									
Benzene	ND	0.00104	mg/kg dry	1	P7B2203	02/21/17	02/21/17	EPA 8021B	
Toluene	ND	0.00208	mg/kg dry	1	P7B2203	02/21/17	02/21/17	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P7B2203	02/21/17	02/21/17	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P7B2203	02/21/17	02/21/17	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P7B2203	02/21/17	02/21/17	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		105 %	75-1	25	P7B2203	02/21/17	02/21/17	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		110 %	75-1	25	P7B2203	02/21/17	02/21/17	EPA 8021B	
General Chemistry Parameters by EF	PA / Standard Method	ds							
Chloride	1180	1.04	mg/kg dry	1	P7B2403	02/24/17	02/27/17	EPA 300.0	
% Moisture	4.0	0.1	%	1	P7B2102	02/21/17	02/21/17	% calculation	
Total Petroleum Hydrocarbons C6-C	35 by EPA Method 80	015M							
C6-C12	ND	26.0	mg/kg dry	1	P7B2207	02/21/17	02/21/17	TPH 8015M	
>C12-C28	42.4	26.0	mg/kg dry	1	P7B2207	02/21/17	02/21/17	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P7B2207	02/21/17	02/21/17	TPH 8015M	
Surrogate: 1-Chlorooctane		91.2 %	70-1	30	P7B2207	02/21/17	02/21/17	TPH 8015M	
Surrogate: o-Terphenyl		102 %	70-1	30	P7B2207	02/21/17	02/21/17	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	42.4	26.0	mg/kg dry	1	[CALC]	02/21/17	02/21/17	calc	

13000 West County Road 100 Project Number: 498-7876-000 Odessa TX, 79765 Project Manager: Tim McMinn

Fax: (432) 563-2213

Test Trench 3 6' 7B20006-08 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Permian Basin Environmental Lab, L.P.

Chloride	14.1	1.09 mg/kg dry	1	P7B2403	02/24/17	02/27/17	EPA 300.0
% Moisture	8.0	0.1 %	1	P7B2102	02/21/17	02/21/17	% calculation

13000 West County Road 100 Project Number: 498-7876-000 Odessa TX, 79765 Project Manager: Tim McMinn

Fax: (432) 563-2213

Test Trench 3 8.5' 7B20006-09 (Soil)

	Reporting							
Analyte Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Permian Basin Environmental Lab, L.P.

Chloride	66.0	1.09 mg/kg dry	1	P7B2403	02/24/17	02/27/17	EPA 300.0
% Moisture	8.0	0.1 %	1	P7B2102	02/21/17	02/21/17	% calculation

13000 West County Road 100 Project Number: 498-7876-000 Odessa TX, 79765 Project Manager: Tim McMinn

Fax: (432) 563-2213

Bottom Hole 4 6" 7B20006-10 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin E	Environme	ıtal Lab, l	L .P.				
Organics by GC									
Benzene	ND	0.0220	mg/kg dry	20	P7B2203	02/21/17	02/21/17	EPA 8021B	
Toluene	ND	0.0440	mg/kg dry	20	P7B2203	02/21/17	02/21/17	EPA 8021B	
Ethylbenzene	ND	0.0220	mg/kg dry	20	P7B2203	02/21/17	02/21/17	EPA 8021B	
Xylene (p/m)	ND	0.0440	mg/kg dry	20	P7B2203	02/21/17	02/21/17	EPA 8021B	
Xylene (o)	ND	0.0220	mg/kg dry	20	P7B2203	02/21/17	02/21/17	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		84.6 %	75-1	25	P7B2203	02/21/17	02/21/17	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		93.2 %	75-1	25	P7B2203	02/21/17	02/21/17	EPA 8021B	
General Chemistry Parameters by EF	PA / Standard Method	ds							
Chloride	609	1.10	mg/kg dry	1	P7B2403	02/24/17	02/27/17	EPA 300.0	
% Moisture	9.0	0.1	%	1	P7B2102	02/21/17	02/21/17	% calculation	
Total Petroleum Hydrocarbons C6-C	35 by EPA Method 80	015M							
C6-C12	31.4	27.5	mg/kg dry	1	P7B2207	02/21/17	02/21/17	TPH 8015M	
>C12-C28	179	27.5	mg/kg dry	1	P7B2207	02/21/17	02/21/17	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P7B2207	02/21/17	02/21/17	TPH 8015M	
Surrogate: 1-Chlorooctane		90.7 %	70-1	30	P7B2207	02/21/17	02/21/17	TPH 8015M	
Surrogate: o-Terphenyl		101 %	70-1	30	P7B2207	02/21/17	02/21/17	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	210	27.5	mg/kg dry	1	[CALC]	02/21/17	02/21/17	calc	

13000 West County Road 100 Project Number: 498-7876-000 Odessa TX, 79765 Project Manager: Tim McMinn

Fax: (432) 563-2213

Test Trench 4 5.5' 7B20006-11 (Soil)

	Reporting							
Analyte Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Permian Basin Environmental Lab, L.P.

Chloride	215	1.06 mg/kg dry	1	P7B2403	02/24/17	02/27/17	EPA 300.0
% Moisture	6.0	0.1 %	1	P7B2102	02/21/17	02/21/17	% calculation

13000 West County Road 100 Project Number: 498-7876-000 Odessa TX, 79765 Project Manager: Tim McMinn

Fax: (432) 563-2213

Test Trench 4 7.5' 7B20006-12 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Permian Basin Environmental Lab, L.P.

Chloride	34.2	1.12 mg/kg dry	1	P7B2403	02/24/17	02/27/17	EPA 300.0
% Moisture	11.0	0.1 %	1	P7B2102	02/21/17	02/21/17	% calculation

13000 West County Road 100 Project Number: 498-7876-000 Odessa TX, 79765 Project Manager: Tim McMinn

Bottom Hole 5 12"

		Danartina		_					_
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Дони	nian Basin E	nvironmer	tal Lab 1	D				
	rem	man Dasili E	arvironinei	itai Lad, I	J.1 .				
Organics by GC									
Benzene	0.509	0.0230	mg/kg dry	20	P7B2203	02/21/17	02/21/17	EPA 8021B	
Toluene	6.81	0.0460	mg/kg dry	20	P7B2203	02/21/17	02/21/17	EPA 8021B	
Ethylbenzene	7.41	0.0230	mg/kg dry	20	P7B2203	02/21/17	02/21/17	EPA 8021B	
Xylene (p/m)	17.7	0.0460	mg/kg dry	20	P7B2203	02/21/17	02/21/17	EPA 8021B	
Xylene (o)	6.92	0.0230	mg/kg dry	20	P7B2203	02/21/17	02/21/17	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		102 %	75-1	25	P7B2203	02/21/17	02/21/17	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		92.1 %	75-125		P7B2203	02/21/17	02/21/17	EPA 8021B	
General Chemistry Parameters by EPA /	Standard Method	ds							
Chloride	391	1.15	mg/kg dry	1	P7B2403	02/24/17	02/27/17	EPA 300.0	
% Moisture	13.0	0.1	%	1	P7B2102	02/21/17	02/21/17	% calculation	
Total Petroleum Hydrocarbons C6-C35 b	y EPA Method 80	015M							
C6-C12	4330	144	mg/kg dry	5	P7B2207	02/21/17	02/21/17	TPH 8015M	
>C12-C28	5520	144	mg/kg dry	5	P7B2207	02/21/17	02/21/17	TPH 8015M	
>C28-C35	847	144	mg/kg dry	5	P7B2207	02/21/17	02/21/17	TPH 8015M	
Surrogate: 1-Chlorooctane		106 %	70-1	30	P7B2207	02/21/17	02/21/17	TPH 8015M	
Surrogate: o-Terphenyl		88.6 %	70-1	30	P7B2207	02/21/17	02/21/17	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	10700	144	mg/kg dry	5	[CALC]	02/21/17	02/21/17	calc	

7B20006-13 (Soil)

Fax: (432) 563-2213

13000 West County Road 100 Project Number: 498-7876-000 Odessa TX, 79765 Project Manager: Tim McMinn

Fax: (432) 563-2213

Test Trench 5 2' 7B20006-14 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	ian Basin E	Environmer	ntal Lab, l	L.P.				
General Chemistry Parameters by EP	A / Standard Method	s							
Chloride	395	1.08	mg/kg dry	1	P7B2403	02/24/17	02/27/17	EPA 300.0	
% Moisture	7.0	0.1	%	1	P7B2102	02/21/17	02/21/17	% calculation	
Total Petroleum Hydrocarbons C6-C3	5 by EPA Method 80	15M							
C6-C12	ND	26.9	mg/kg dry	1	P7C0205	02/28/17	03/01/17	TPH 8015M	
>C12-C28	201	26.9	mg/kg dry	1	P7C0205	02/28/17	03/01/17	TPH 8015M	
>C28-C35	53.8	26.9	mg/kg dry	1	P7C0205	02/28/17	03/01/17	TPH 8015M	
Surrogate: 1-Chlorooctane		103 %	70-1	30	P7C0205	02/28/17	03/01/17	TPH 8015M	
Surrogate: o-Terphenyl		113 %	70-1	30	P7C0205	02/28/17	03/01/17	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	255	26.9	mg/kg dry	1	[CALC]	02/28/17	03/01/17	calc	

13000 West County Road 100 Project Number: 498-7876-000 Odessa TX, 79765 Project Manager: Tim McMinn

Fax: (432) 563-2213

Test Trench 5 3' 7B20006-15 (Soil)

									I .
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Permian Basin Environmental Lab, L.P.

Chloride	315	1.08 mg/kg dry	1	P7B2403	02/24/17	02/27/17	EPA 300.0
% Moisture	7.0	0.1 %	1	P7B2102	02/21/17	02/21/17	% calculation

13000 West County Road 100 Project Number: 498-7876-000 Odessa TX, 79765 Project Manager: Tim McMinn

Fax: (432) 563-2213

Test Trench 5 4' 7B20006-16 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Permian Basin Environmental Lab, L.P.

Chloride	412	1.08 mg/kg dry	1	P7B2403	02/24/17	02/27/17	EPA 300.0
% Moisture	7.0	0.1 %	1	P7B2102	02/21/17	02/21/17	% calculation

13000 West County Road 100 Project Number: 498-7876-000 Odessa TX, 79765 Project Manager: Tim McMinn

Fax: (432) 563-2213

Test Trench 5 5' 7B20006-17 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Permian Basin Environmental Lab, L.P.

Chloride	257	1.14 mg/kg dry	1	P7B2403	02/24/17	02/27/17	EPA 300.0
% Moisture	12.0	0.1 %	1	P7B2102	02/21/17	02/21/17	% calculation

13000 West County Road 100 Project Number: 498-7876-000 Odessa TX, 79765 Project Manager: Tim McMinn

Fax: (432) 563-2213

Test Trench 5 6' 7B20006-18 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Permian Basin Environmental Lab, L.P.

Chloride	192	1.16 mg/kg dry	1	P7B2403	02/24/17	02/27/17	EPA 300.0
% Moisture	14.0	0.1 %	1	P7B2102	02/21/17	02/21/17	% calculation

13000 West County Road 100 Project Number: 498-7876-000 Odessa TX, 79765 Project Manager: Tim McMinn

Fax: (432) 563-2213

Test Trench 5 7' 7B20006-19 (Soil)

	Reporting							
Analyte Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Permian Basin Environmental Lab, L.P.

Chloride	308	1.14 mg/kg dry	1	P7B2403	02/24/17	02/27/17	EPA 300.0
% Moisture	12.0	0.1 %	1	P7B2102	02/21/17	02/21/17	% calculation

13000 West County Road 100 Project Number: 498-7876-000 Odessa TX, 79765 Project Manager: Tim McMinn

Fax: (432) 563-2213

Test Trench 5 8' 7B20006-20 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Permian Basin Environmental Lab, L.P.

Chloride	418	1.09 mg/kg dry	1	P7B2403	02/24/17	02/27/17	EPA 300.0
% Moisture	8.0	0.1 %	1	P7B2102	02/21/17	02/21/17	% calculation

13000 West County Road 100 Project Number: 498-7876-000 Odessa TX, 79765 Project Manager: Tim McMinn

Fax: (432) 563-2213

Test Trench 5 9' 7B20006-21 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Permian Basin Environmental Lab, L.P.

Chloride	988	5.38 mg/kg dry	5	P7B2403	02/24/17	02/27/17	EPA 300.0
% Moisture	7.0	0.1 %	1	P7B2102	02/21/17	02/21/17	% calculation

13000 West County Road 100 Project Number: 498-7876-000 Odessa TX, 79765 Project Manager: Tim McMinn

Bottom Hole 6 12" 7B20006-22 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	nian Basin E	nvironmen	ital Lab, I	L.P.				
Organics by GC									
Benzene	ND	0.0222	mg/kg dry	20	P7B2203	02/21/17	02/21/17	EPA 8021B	
Toluene	ND	0.0444	mg/kg dry	20	P7B2203	02/21/17	02/21/17	EPA 8021B	
Ethylbenzene	0.120	0.0222	mg/kg dry	20	P7B2203	02/21/17	02/21/17	EPA 8021B	
Xylene (p/m)	0.214	0.0444	mg/kg dry	20	P7B2203	02/21/17	02/21/17	EPA 8021B	
Xylene (o)	0.0960	0.0222	mg/kg dry	20	P7B2203	02/21/17	02/21/17	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.1 %	75-1.	75-125		02/21/17	02/21/17	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		113 %	75-1.	25	P7B2203	02/21/17	02/21/17	EPA 8021B	
General Chemistry Parameters by El	PA / Standard Method	ls							
Chloride	1330	5.56	mg/kg dry	5	P7B2403	02/24/17	02/27/17	EPA 300.0	
% Moisture	10.0	0.1	%	1	P7B2102	02/21/17	02/21/17	% calculation	
Total Petroleum Hydrocarbons C6-C	35 by EPA Method 80)15M							
C6-C12	102	27.8	mg/kg dry	1	P7B2207	02/21/17	02/21/17	TPH 8015M	
>C12-C28	375	27.8	mg/kg dry	1	P7B2207	02/21/17	02/21/17	TPH 8015M	
>C28-C35	51.9	27.8	mg/kg dry	1	P7B2207	02/21/17	02/21/17	TPH 8015M	
Surrogate: 1-Chlorooctane		91.1 %	70-1.	30	P7B2207	02/21/17	02/21/17	TPH 8015M	
Surrogate: o-Terphenyl		104 %	70-1.	30	P7B2207	02/21/17	02/21/17	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	529	27.8	mg/kg dry	1	[CALC]	02/21/17	02/21/17	calc	

Fax: (432) 563-2213

13000 West County Road 100 Project Number: 498-7876-000 Odessa TX, 79765 Project Manager: Tim McMinn

Fax: (432) 563-2213

Test Trench 6 2' 7B20006-23 (Soil)

- 1										
			Reporting							
	Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Permian Basin Environmental Lab, L.P.

Chloride	1900	5.26 mg/kg dry	5	P7B2404	02/24/17	02/27/17	EPA 300.0
% Moisture	5.0	0.1 %	1	P7B2102	02/21/17	02/21/17	% calculation

13000 West County Road 100 Project Number: 498-7876-000 Odessa TX, 79765 Project Manager: Tim McMinn

Fax: (432) 563-2213

Test Trench 6 3' 7B20006-24 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Permian Basin Environmental Lab, L.P.

Chloride	123	1.05 mg/kg dry	1	P7B2404	02/24/17	02/27/17	EPA 300.0
% Moisture	5.0	0.1 %	1	P7B2102	02/21/17	02/21/17	% calculation

13000 West County Road 100 Project Number: 498-7876-000 Odessa TX, 79765 Project Manager: Tim McMinn

Fax: (432) 563-2213

Test Trench 6 4' 7B20006-25 (Soil)

									- 1
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Permian Basin Environmental Lab, L.P.

Chloride	261	1.08 mg/kg dry	1	P7B2404	02/24/17	02/27/17	EPA 300.0
% Moisture	7.0	0.1 %	1	P7B2102	02/21/17	02/21/17	% calculation

13000 West County Road 100 Project Number: 498-7876-000 Odessa TX, 79765 Project Manager: Tim McMinn

Fax: (432) 563-2213

Test Trench 6 5' 7B20006-26 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Permian Basin Environmental Lab, L.P.

Chloride	209	1.06 mg/kg dry	1	P7B2404	02/24/17	02/27/17	EPA 300.0
% Moisture	6.0	0.1 %	1	P7B2102	02/21/17	02/21/17	% calculation

13000 West County Road 100 Project Number: 498-7876-000 Odessa TX, 79765 Project Manager: Tim McMinn

Fax: (432) 563-2213

Test Trench 6 6' 7B20006-27 (Soil)

									I .
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Permian Basin Environmental Lab, L.P.

Chloride	326	1.06 mg/kg dry	1	P7B2404	02/24/17	02/27/17	EPA 300.0
% Moisture	6.0	0.1 %	1	P7B2102	02/21/17	02/21/17	% calculation

13000 West County Road 100 Project Number: 498-7876-000 Odessa TX, 79765 Project Manager: Tim McMinn

Fax: (432) 563-2213

Test Trench 6 7' 7B20006-28 (Soil)

- 1										
			Reporting							
	Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Permian Basin Environmental Lab, L.P.

Chloride	387	1.12 mg/kg dry	1	P7B2404	02/24/17	02/27/17	EPA 300.0
% Moisture	11.0	0.1 %	1	P7B2102	02/21/17	02/21/17	% calculation

13000 West County Road 100 Project Number: 498-7876-000 Odessa TX, 79765 Project Manager: Tim McMinn

Fax: (432) 563-2213

Test Trench 6 8' 7B20006-29 (Soil)

	Reporting							
Analyte Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Permian Basin Environmental Lab, L.P.

Chloride	410	1.10 mg/kg dry	1	P7B2404	02/24/17	02/27/17	EPA 300.0
% Moisture	9.0	0.1 %	1	P7B2102	02/21/17	02/21/17	% calculation

E Tech Environmental & Safety Solutions, Inc.

Project: Enervest JackB-30 #2 Tank Battery Lightning St

Source

%REC

Fax: (432) 563-2213

RPD

13000 West County Road 100 Odessa TX, 79765 Project Number: 498-7876-000 Project Manager: Tim McMinn

Organics by GC - Quality Control Permian Basin Environmental Lab, L.P.

Spike

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P7B2203 - General Preparation	ı (GC)									
Blank (P7B2203-BLK1)				Prepared &	Analyzed:	02/21/17				
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00200	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	0.0644		"	0.0600		107	75-125			
Surrogate: 4-Bromofluorobenzene	0.0646		"	0.0600		108	75-125			
LCS (P7B2203-BS1)				Prepared &	Analyzed:	02/21/17				
Benzene	0.0938	0.00100	mg/kg wet				70-130			
Toluene	0.0981	0.00200	"				70-130			
Ethylbenzene	0.114	0.00100	"				70-130			
Xylene (p/m)	0.210	0.00200	"				70-130			
Xylene (o)	0.104	0.00100	"				70-130			
Surrogate: 1,4-Difluorobenzene	0.0652		"	0.0600		109	75-125			
Surrogate: 4-Bromofluorobenzene	0.0690		"	0.0600		115	75-125			
LCS Dup (P7B2203-BSD1)				Prepared &	Analyzed:	02/21/17				
Benzene	0.0918	0.00100	mg/kg wet				70-130		20	
Γoluene	0.0969	0.00200	"				70-130		20	
Ethylbenzene	0.116	0.00100	"				70-130		20	
Xylene (p/m)	0.208	0.00200	"				70-130		20	
Xylene (o)	0.105	0.00100	"				70-130		20	
Surrogate: 4-Bromofluorobenzene	0.0693		"	0.0600		116	75-125			
Surrogate: 1,4-Difluorobenzene	0.0655		"	0.0600		109	75-125			
Matrix Spike (P7B2203-MS1)	Sour	ce: 7B20006	-01	Prepared &	Analyzed:	02/21/17				
Benzene	0.112	0.00103	mg/kg dry	<u> </u>	ND	<u> </u>	80-120	<u> </u>	<u> </u>	<u></u>
Toluene	0.118	0.00206	"		ND		80-120			
Ethylbenzene	0.124	0.00103	"		ND		80-120			
Xylene (p/m)	0.221	0.00206	"		ND		80-120			
Xylene (o)	0.112	0.00103	"		ND		80-120			
Surrogate: 1,4-Difluorobenzene	0.0678		"	0.0619		110	75-125			
Surrogate: 4-Bromofluorobenzene	0.0670		"	0.0619		108	75-125			

E Tech Environmental & Safety Solutions, Inc.

Project: Enervest JackB-30 #2 Tank Battery Lightning St

Fax: (432) 563-2213

13000 West County Road 100 Odessa TX, 79765 Project Number: 498-7876-000 Project Manager: Tim McMinn

Organics by GC - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Matrix Spike Dup (P7B2203-MSD1)	Sour	Source: 7B20006-01			Prepared & Analyzed: 02/21/17				
Benzene	0.111	0.00103	mg/kg dry		ND		80-120	20	
Toluene	0.115	0.00206	"		ND		80-120	20	
Ethylbenzene	0.122	0.00103	"		ND		80-120	20	
Xylene (p/m)	0.213	0.00206	"		ND		80-120	20	
Xylene (o)	0.106	0.00103	"		ND		80-120	20	
Surrogate: 1,4-Difluorobenzene	0.0674		"	0.0619		109	75-125		
Surrogate: 4-Bromofluorobenzene	0.0709		"	0.0619		115	75-125		

13000 West County Road 100Project Number:498-7876-000Odessa TX, 79765Project Manager:Tim McMinn

Fax: (432) 563-2213

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P7B2102 - *** DEFAULT PREP ***										
Blank (P7B2102-BLK1)				Prepared &	Analyzed	d: 02/21/17				
% Moisture	ND	0.1	%							
Blank (P7B2102-BLK2)				Prepared &	Analyzed	d: 02/21/17				
% Moisture	ND	0.1	%							
Duplicate (P7B2102-DUP1)	Sou	rce: 7B20003-	-08	Prepared &	Analyzed	d: 02/21/17				
% Moisture	10.0	0.1	%		11.0			9.52	20	
Duplicate (P7B2102-DUP2)	Sou	rce: 7B20004-	-11	Prepared &	Analyzed	d: 02/21/17				
% Moisture	7.0	0.1	%		8.0			13.3	20	
Duplicate (P7B2102-DUP3)	Sou	rce: 7B20006-	25	Prepared &	Analyzed	d: 02/21/17				
% Moisture	6.0	0.1	%		7.0			15.4	20	
Batch P7B2318 - *** DEFAULT PREP ***										
Blank (P7B2318-BLK1)				Prepared: (02/23/17	Analyzed: 02	2/24/17			
Chloride	ND	1.00	mg/kg wet							
LCS (P7B2318-BS1)				Prepared: (02/23/17	Analyzed: 02	2/24/17			
Chloride	433	1.00	mg/kg wet	400		108	80-120			
LCS Dup (P7B2318-BSD1)				Prepared: (02/23/17	Analyzed: 02	2/24/17			
Chloride	434	1.00	mg/kg wet	400		108	80-120	0.178	20	
Duplicate (P7B2318-DUP1)	Sou	rce: 7B20003-	16	Prepared: (02/23/17	Analyzed: 02	2/24/17			
Chloride	56.4	1.08	mg/kg dry		52.8			6.60	20	

13000 West County Road 100 Project Number: 498-7876-000
Odessa TX, 79765 Project Manager: Tim McMinn

Fax: (432) 563-2213

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Analyte	Result	Lillit	Onits	Level	Result	/0KEC	Lillits	KFD	Lillit	Notes
Batch P7B2318 - *** DEFAULT PREP ***										
Duplicate (P7B2318-DUP2)	Sou	ce: 7B20004	-05	Prepared: (02/23/17 A	nalyzed: 02	2/24/17			
Chloride	4250	27.2	mg/kg dry		4240			0.410	20	
Matrix Spike (P7B2318-MS1)	Sou	ce: 7B20003	-16	Prepared: ()2/23/17 A	nalyzed: 02	2/24/17			
Chloride	1090	1.08	mg/kg dry	1080	52.8	96.9	80-120			
Batch P7B2403 - *** DEFAULT PREP ***										
Blank (P7B2403-BLK1)				Prepared: (02/24/17 A	nalyzed: 02	2/27/17			
Chloride	ND	1.00	mg/kg wet	*						
LCS (P7B2403-BS1)				Prepared: ()2/24/17 A	nalyzed: 02	2/27/17			
Chloride	431	1.00	mg/kg wet	400		108	80-120			
LCS Dup (P7B2403-BSD1)				Prepared: (02/24/17 A	nalyzed: 02	2/27/17			
Chloride	439	1.00	mg/kg wet	400		110	80-120	1.81	20	
Duplicate (P7B2403-DUP1)	Sou	ce: 7B20006	-03	Prepared: ()2/24/17 A	nalyzed: 02	2/27/17			
Chloride	156	1.08	mg/kg dry		155			0.581	20	
Duplicate (P7B2403-DUP2)	Sou	ce: 7B20006	-13	Prepared: ()2/24/17 A	nalyzed: 02	2/27/17			
Chloride	392	1.15	mg/kg dry		391			0.176	20	
Matrix Spike (P7B2403-MS1)	Sour	ce: 7B20006	-03	Prepared: (02/24/17 A	nalyzed: 02	2/27/17			
Chloride	1430	1.08	mg/kg dry	1080	155	118	80-120			
Batch P7B2404 - *** DEFAULT PREP ***										
Blank (P7B2404-BLK1)				Prepared: ()2/24/17 A	nalyzed: 02	2/27/17			
Chloride	ND	1.00	mg/kg wet	-		-				

13000 West County Road 100 Project Number: 498-7876-000 Odessa TX, 79765 Project Manager: Tim McMinn

Fax: (432) 563-2213

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7B2404 - *** DEFAULT PREP ***					3.42.					
LCS (P7B2404-BS1)				Prepared: ()2/24/17 A	nalyzed: 02	2/27/17			
Chloride	431	1.00	mg/kg wet	400		108	80-120			
LCS Dup (P7B2404-BSD1)				Prepared: (02/24/17 A	nalyzed: 02	2/27/17			
Chloride	420	1.00	mg/kg wet	400		105	80-120	2.52	20	
Duplicate (P7B2404-DUP1)	Sour	rce: 7B20006	5-23	Prepared: (02/24/17 A	nalyzed: 02	2/27/17			
Chloride	1940	5.26	mg/kg dry		1900			2.14	20	
Duplicate (P7B2404-DUP2)	Sou	rce: 7B21001	-02	Prepared: (02/24/17 A	nalyzed: 02	2/27/17			
Chloride	2290	10.8	mg/kg dry		2830			21.1	20	
Matrix Spike (P7B2404-MS1)	Sou	rce: 7B20006	5-23	Prepared: (02/24/17 A	nalyzed: 02	2/27/17			
Chloride	3060	5.26	mg/kg dry	1050	1900	110	80-120			

E Tech Environmental & Safety Solutions, Inc.

Project: Enervest JackB-30 #2 Tank Battery Lightning St

Fax: (432) 563-2213

13000 West County Road 100 Odessa TX, 79765 Project Number: 498-7876-000

Project Manager: Tim McMinn

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control Permian Basin Environmental Lab, L.P.

	D 1:	Reporting	TT :	Spike	Source	0/DEC	%REC	DDD	RPD	NI 4
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P7B2207 - TX 1005										
Blank (P7B2207-BLK1)				Prepared &	k Analyzed:	02/21/17				
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	130		"	100		130	70-130			
Surrogate: o-Terphenyl	74.7		"	50.0		149	70-130			S-GC
LCS (P7B2207-BS1)				Prepared &	k Analyzed:	02/21/17				
C6-C12	1190	25.0	mg/kg wet	1000		119	75-125			
>C12-C28	1110	25.0	"	1000		111	75-125			
Surrogate: 1-Chlorooctane	124		"	100		124	70-130			
Surrogate: o-Terphenyl	68.3		"	50.0		137	70-130			S-GC
LCS Dup (P7B2207-BSD1)				Prepared &	k Analyzed:	02/21/17				
C6-C12	1180	25.0	mg/kg wet	1000		118	75-125	1.26	20	
>C12-C28	1080	25.0	"	1000		108	75-125	3.02	20	
Surrogate: 1-Chlorooctane	120		"	100		120	70-130			
Surrogate: o-Terphenyl	65.9		"	50.0		132	70-130			S-GC
Matrix Spike (P7B2207-MS1)	Sour	rce: 7B20011	1-05	Prepared: (02/21/17 A	nalyzed: 02	2/22/17			
C6-C12	1620	29.1	mg/kg dry	1160	19.2	138	75-125			QM-05
>C12-C28	2370	29.1	"	1160	308	177	75-125			QM-05
Surrogate: 1-Chlorooctane	132		"	116		114	70-130			
Surrogate: o-Terphenyl	50.1		"	58.1		86.2	70-130			
Matrix Spike Dup (P7B2207-MSD1)	Sou	rce: 7B20011	-05	Prepared: (02/21/17 A	nalyzed: 02	2/22/17			
C6-C12	1660	29.1	mg/kg dry	1160	19.2	141	75-125	2.42	20	QM-05
>C12-C28	2380	29.1	"	1160	308	178	75-125	0.454	20	QM-05
Surrogate: 1-Chlorooctane	133		"	116		114	70-130			
Surrogate: o-Terphenyl	62.7		"	58.1		108	70-130			

E Tech Environmental & Safety Solutions, Inc.

Project: Enervest JackB-30 #2 Tank Battery Lightning St

Fax: (432) 563-2213

13000 West County Road 100 Odessa TX, 79765 Project Number: 498-7876-000 Project Manager: Tim McMinn

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P7C0205 - TX 1005										
Blank (P7C0205-BLK1)				Prepared: 0)2/28/17 A	nalyzed: 03	5/01/17			
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	89.1		"	100		89.1	70-130			
Surrogate: o-Terphenyl	50.7		"	50.0		101	70-130			
LCS (P7C0205-BS1)				Prepared: 0	02/28/17 A	nalyzed: 03	5/01/17			
C6-C12	797	25.0	mg/kg wet	1000		79.7	75-125			
>C12-C28	1120	25.0	"	1000		112	75-125			
Surrogate: 1-Chlorooctane	115		"	100		115	70-130			
Surrogate: o-Terphenyl	52.0		"	50.0		104	70-130			
LCS Dup (P7C0205-BSD1)				Prepared: 0)2/28/17 A	nalyzed: 03	5/01/17			
C6-C12	792	25.0	mg/kg wet	1000		79.2	75-125	0.624	20	
>C12-C28	1130	25.0	"	1000		113	75-125	0.862	20	
Surrogate: 1-Chlorooctane	115		"	100		115	70-130			
Surrogate: o-Terphenyl	48.1		"	50.0		96.3	70-130			
Matrix Spike (P7C0205-MS1)	Sour	ce: 7B20006	5-21	Prepared: 0)2/28/17 A	nalyzed: 03	5/02/17			
C6-C12	907	26.9	mg/kg dry	1080	ND	84.4	75-125			
>C12-C28	1200	26.9	"	1080	ND	111	75-125			
Surrogate: 1-Chlorooctane	127		"	108		119	70-130			
Surrogate: o-Terphenyl	61.5		"	53.8		114	70-130			
Matrix Spike Dup (P7C0205-MSD1)	Sour	ce: 7B20006	5-21	Prepared: 0)2/28/17 A	nalyzed: 03	5/02/17			
C6-C12	928	26.9	mg/kg dry	1080	ND	86.3	75-125	2.21	20	
>C12-C28	1280	26.9	"	1080	ND	119	75-125	6.59	20	
Surrogate: 1-Chlorooctane	126		"	108		117	70-130			
Surrogate: o-Terphenyl	69.0		"	53.8		128	70-130			

13000 West County Road 100 Project Number: 498-7876-000 Odessa TX, 79765 Project Manager: Tim McMinn

Notes and Definitions

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were

within acceptance limits showing that the laboratory is in control and the data is acceptable.

BULK Samples received in Bulk soil containers

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

	Bren	Darron			
Report Approved By:			Date:	3/8/2017	

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

Fax: (432) 563-2213

M EST	Delination by Delination Delinati	Elem /	ctions:	1 1 Boxtom HOK 4 6"	1 Test Trench 3 8.5	300	Bottom Hole 3 18"	Trench 7	12	1 U Rottom Hole 2 24"	1 5 Test Trenth 1 8'	Test Trench 1 6.5	Rattom Hole 1 6"	LAB # (lab use only)	CABER#	(lab use only)	Sampler Signature: Shorth Laterny	Telephone No: 432-563-2200	City/State/Zip: Midland, Texas 79708	Company Address: PO Box 8469	Company Name Etech Environmental & Safety Solutions, Inc.	Project Manager: Tim McMinn		Etech Environmental
17 4.5%	i ime																o'		8		& Safety Solution			& Safet
Received by ELOT:	Received by: /	M Sty		4									2,17,17	Date Sampled							s, Inc.			& Safety Solutions, Inc.
		D		1330 4	1720	1710	1325	1700	(655	1320	1750	1735	1315	Time Sampled		Q	e-mail: <u>C</u>	Fax No: 43						ons, in
R														No. of Containers Ice HNO ₃ HCI	Preservation	Description of the property of	Gentfacter	Fax No: 432-563-2213					12800 W. Hwy 80 E Odessa, Texas 79765	
7-6	Г	aku												H ₂ SO ₄ NaOH Na ₂ S ₂ O ₃ None Other (Specify)	& # of Containers	7186W. Coor	Meny, com						wy 80 E xas 79765	
(M) 9 1.5%	Date Time	2		 			N N						\V	DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other TPH: 418.1 8015M 1005 10	Matrix 66)]	_ Report Format:		Proj		Projec		CHAIN OF
														Cations (Ca, Mg, Na, K) Anions (Cl, SO4, CO3, HCO3) SAR / ESP / CEC Metals: As Ag Ba Cd Cr Pb Hg	Se	TCLP:		X	PO #:	Project Loc:) ex_	Project#: 448	Project Name: Jack	C so T	CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST
Temperature Upon Receipt:	by Sampler/Client Rep. ? by Courier? UPS [Custody seals on container(s) Custody seals on cooler(s) Sample Hand Delivered	Laboratory Comments: Sample Containers Intact? VOCs Free of Headspace?											Volatiles Semivolatiles BTEX 8021B 5030 or BTEX 82 RCI	260		Analyze For:	Standard TRRP		1, 2 m	498-7876-00	B-30 #2	Phone: 432-563-2200 Fax: 432-563-2213	CORD AND 1
3.0m	DHL Fe L		3											N.O.R.M. Chlorides				₹P			000	Tauk Batte	-2200 -2213	WALYSIS RE
(e, 1	one Star	ZZZ	ZZ											RUSH TAT (Pre-Schedule) 24 Standard TAT	, 48,	72 hrs	1					2	<u> 40 o</u>	•

MM 65/mp 9/2017/8-53	C	Cloud blown Date	institucțions.	Special Internation I Trench 5 8'	19 Test Treach 5 7	Trench !	1 1 Test Trench 5 5	Test Trench 5 4	16 Test irench 5 3	Trench 1	Bottom Hole 5 12"	Littlest Treach 4 7.5'	Test Tranch 4 5.5	LAB# (lab use only)	CRUTR#: <\C\C\C\C\C\C\C\C\C\C\C\C\C\C\C\C\C\C\C	(lab use only)	Sampler Signature: Sport Helpung	Telephone No: 432-563-2200	City/State/Zip: Midland, Texas 79708	Company Address: PO Box 8469	Company Name Etech Environmental & Safety Solutions, Inc.	Project Manager: Try McMinn		Etech Environmental & Safety Solutions,
É	Time	Time					_														Solution			afet
received by ELOI.	Received by:	Received by:		<									71,77	Date Sampled							ıs, Inc.			y Solu
-	North Control	A distribution		1625	1620	5121	1610	1605	1001	1100	1055	1730	1725	Time Sampled			e-mail: Gerfforthenvicom	Fax No: 432-563-2213						tions, I
				V M	X	M	M	図	図	図	Ø	区区	一 図	No. of Containers		Į,	Rech	432-56					o .:	Inc.
C														HNO ₃	Preserva	7		3-2213					12800 W. Hwy 80 E Odessa, Texas 797	
1				昌				直					圁	H ₂ SO ₄	reservation & #	4	to CV						. Hwy Texas	
				崮								片	님	NaOH Na ₂ S ₂ O ₃	of Containers	A S	Nenv						80 E 79765	
17								밁					믬	None Other (Specify)	ainers	, . CG	CO							
2	Date	Date			J	L	Lamped		<u> </u>	البيبا	<u></u>	لسسا	۱۸	DW=Drinking Water SL=Sludge	~	177	3	'_	l	1	l i			Ω
6		\ \ \ \ \		<							-		W	GW = Groundwater S=Soit/Solid NP=Non-Potable Specify Other	Matrix			Report Format:			, j	P		CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST
35.30	Time	200									X			TPH: 418.1 (8015M) 1005 100	06	П	1	t For		Project Loc: Jel 1 16/10	.	Project Name:		P
			Tigota e	回										Cations (Ca, Mg, Na, K)				mat:	PO	čť –	Project #:	l Nan		cus
Tem	Sample Hand Delivered by Sampler/Client Re by Courier? UPS	Cust	Laboratory Comments: Sample Containers Intact? VOCs Free of Headspace?	囗				믜					-	Anions (CI, SO4, CO3, HCO3)	_	TCLP:			PO #:	۲ 50	1		Πa	<i>TO</i> ,
perat	y Sa Y Co	ody s	ple C s Fre	片	님	님	뷤	뷔	닏	뉘	님	닉		SAR / ESP / CEC		<u> </u>		X		e l	854 146517	Jack	- (- ()	DY
ure -	mple urier	seals seals	8 5 3 9 5 9 5 9 5 9 6	H	님	퓜		붜	믬	믬	片	님		Metals: As Ag Ba Cd Cr Pb Hg S Volatiles	Se [#		Standard			115	大家	7 P	REC
L L L	, Delli	99	omin Hea	片	뒴	뒴	뒴	計		뒴	님	H		Semivolatiles	+	##	nalyze	dard		3	498-78-	OI S	Phone: Fax: Fax:	Ö R
Rec	tple Hand Delivered by Sampler/Client Rep. ? by Courier? UPS	conta	tents S Inta dspa								X			BTEX 8021B 5030 or BTEX 826	30 E		Ze F			_	├ ~	5-30	432	DA
Temperature Upon Receipt () M ((°C(> ∾#	Custody seals on container(s) Custody seals on cooler(s)	ଜୁ ଘୁ "		旦			口					=	RCI			P P	TRRP			13	#2	Phone: 432-563-2200 Fax: 432-563-2213	S.
7	불	S		빌	닏	ᆜ	닠	닠	빌	빏	닠	닠	=	N.O.R.M	:			중	.:		000 140		3-22I 3-227	ANA
	, 0			Ä	X V		× A	National Park	M	X	X	A		Chlorides	-	\dashv					(7 (°)	Tawk	ಪ 8	LY.
5	15	XX.	(A)	믬	붜	붜	뮈	뮈	붜	붜	믬	퓜	븲			-		N N P				R		SIS
	. ē	ン	\smile	間		비	베	히	히	히	히	ቨ	히			\dashv		NPDES				Bart		REQ
ुँ	V N N N	zz	zz											RUSH TAT (Pre-Schedule) 24,	48, 7	2 hṛs						#		UE
<u> </u>	, "			Ш										Standard TAT								age	e 41 of	

(lab use only) Special Instructions: Relinquished by: Joseph Mon. ORDER #: Etech Environmental & Safety Solutions, Inc. AB # (lab use only) किं भ Test Bottom Hoje Test Trench 1654 Test Trench Sampler Signature: Telephone No: City/State/Zip: Project Manager: lest Trenun Company Address: PO Box 8469 Company Name rench treach ICENC! 1seach 6 Kench 6 FIELD CODE 432-563-2200 Midland, Texas 79708 Etech Environmental & Safety Solutions, Inc. O 5 6 5 0 6 二 2 Date ڡ Date Time Time m Cothy Received by ELOT: Received by: Date Sampled 05 01 545 1640 0,80 1630 1535 0091 9559 0451 Fax No: 432-563-2213 Time Sampled e-mail: No. of Containers 龱 X 区 X ice Odessa, Texas 79765 12800 W. Hwy 80 E HNO₃ HCI H₂SO₄ NaOH Na₂S₂O₃ alak! None Other (Specify) CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST Report Format: 8.2 Project Name: 9756 Temperature Upon Receipt: 5,0) N. W. ex **Project Loc:** Time (8015M) 1005 1006 Project #: PO#: Sample Hand Delivered Custody seals on cooler(s) Custody seals on container(s) Sample Containers Intact? VOCs Free of Headspace? TCLP: boratory Comments: Metals: As Ag Ba Cd Cr Pb Hg Se Standard Phone: 432-563-2200 Analyze For Fax: 432-563-2213 BTEX 8021B 8030 or BTEX 8260 TRRP N.O.R.M. Chlorides NPDES zzzzz RUSH TAT (Pre-Schedule) 24, Standard TAT Page 42 of 42

PERMIAN BASIN ENVIRONMENTAL LAB, LP 1400 Rankin Hwy Midland, TX 79701



Analytical Report

Prepared for:

Tim McMinn
E Tech Environmental & Safety Solutions, Inc.
13000 West County Road 100
Odessa, TX 79765

Project: Jack B-30 #2 Tank Battery Lightning Strike

Project Number: 498-7876-000

Location: Jal NM

Lab Order Number: 7D12006



NELAP/TCEQ # T104704156-13-3

Report Date: 04/18/17

13000 West County Road 100 Project Number: 498-7876-000 Odessa TX, 79765 Project Manager: Tim McMinn

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Boring 1 10'	7D12006-01	Soil	04/11/17 10:30	04-12-2017 09:12
Boring 1 15'	7D12006-02	Soil	04/11/17 10:40	04-12-2017 09:12
Boring 1 20'	7D12006-03	Soil	04/11/17 10:50	04-12-2017 09:12

Fax: (432) 563-2213

E Tech Environmental & Safety Solutions, Inc. Project: Jack B-30 #2 Tank Battery Lightning Strike Fax: (432) 563-2213

13000 West County Road 100 Project Number: 498-7876-000 Odessa TX, 79765 Project Manager: Tim McMinn

Boring 1 10' 7D12006-01 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Permian Basin Environmental Lab, L.P.

Chloride	10.7	1.06 mg/kg dry	1	P7D1302	04/13/17	04/17/17	EPA 300.0
% Moisture	6.0	0.1 %	1	P7D1701	04/17/17	04/17/17	% calculation

E Tech Environmental & Safety Solutions, Inc. Project: Jack B-30 #2 Tank Battery Lightning Strike Fax: (432) 563-2213

13000 West County Road 100 Project Number: 498-7876-000 Odessa TX, 79765 Project Manager: Tim McMinn

Boring 1 15' 7D12006-02 (Soil)

									1
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Permian Basin Environmental Lab, L.P.

Chloride	6.73	1.09 mg/kg dry	1	P7D1302	04/13/17	04/17/17	EPA 300.0
% Moisture	8.0	0.1 %	1	P7D1701	04/17/17	04/17/17	% calculation

E Tech Environmental & Safety Solutions, Inc. Project: Jack B-30 #2 Tank Battery Lightning Strike Fax: (432) 563-2213

13000 West County Road 100Project Number:498-7876-000Odessa TX, 79765Project Manager:Tim McMinn

Boring 1 20' 7D12006-03 (Soil)

									I .
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Permian Basin Environmental Lab, L.P.

Chloride	8.37	1.08 mg/kg dry	1	P7D1303	04/13/17	04/17/17	EPA 300.0
% Moisture	7.0	0.1 %	1	P7D1701	04/17/17	04/17/17	% calculation

E Tech Environmental & Safety Solutions, Inc.

Project: Jack B-30 #2 Tank Battery Lightning Strike

13000 West County Road 100 Odessa TX, 79765

Fax: (432) 563-2213

Project Number: 498-7876-000 Project Manager: Tim McMinn

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P7D1302 - *** DEFAULT PREP ***										
Blank (P7D1302-BLK1)				Prepared: (04/13/17 A	nalyzed: 04	1/17/17			
Chloride	ND	1.00	mg/kg wet							
LCS (P7D1302-BS1)				Prepared: (04/13/17 A	nalyzed: 04	1/17/17			
Chloride	392	1.00	mg/kg wet	400		98.1	80-120			
LCS Dup (P7D1302-BSD1)				Prepared: (04/13/17 A	nalyzed: 04	1/17/17			
Chloride	392	1.00	mg/kg wet	400		98.1	80-120	0.0229	20	
Duplicate (P7D1302-DUP1)	Sour	ce: 7D10008	3-58	Prepared: (04/13/17 A	nalyzed: 04	1/17/17			
Chloride	305	1.05	mg/kg dry		305			0.114	20	
Duplicate (P7D1302-DUP2)	Sour	ce: 7D10008	3-76	Prepared: (04/13/17 A	nalyzed: 04	1/17/17			
Chloride	985	5.05	mg/kg dry		985			0.00512	20	
Matrix Spike (P7D1302-MS1)	Sour	ce: 7D10008	3-58	Prepared: (04/13/17 A	nalyzed: 04	1/17/17			
Chloride	1310	1.05	mg/kg dry	1050	305	95.8	80-120			
Batch P7D1303 - *** DEFAULT PREP ***										
Blank (P7D1303-BLK1)				Prepared: (04/13/17 A	nalyzed: 04	1/17/17			
Chloride	ND	1.00	mg/kg wet							
LCS (P7D1303-BS1)				Prepared: (04/13/17 A	nalyzed: 04	1/17/17			
Chloride	391	1.00	mg/kg wet	400		97.8	80-120		·	·
LCS Dup (P7D1303-BSD1)				Prepared: (04/13/17 A	nalyzed: 04	1/17/17			
Chloride	404	1.00	mg/kg wet	400		101	80-120	3.28	20	

13000 West County Road 100 Project Number: 498-7876-000 Odessa TX, 79765 Project Manager: Tim McMinn

Fax: (432) 563-2213

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P7D1303 - *** DEFAULT PREP ***										
Duplicate (P7D1303-DUP1)	Sou	rce: 7D12007	-01	Prepared: (04/13/17 A	nalyzed: 04	/17/17			
Chloride	2130	5.21	mg/kg dry		2360			10.6	20	
Duplicate (P7D1303-DUP2)	Sou	rce: 7D12011	-01	Prepared: (04/13/17 A	nalyzed: 04	/17/17			
Chloride	88.2	1.02	mg/kg dry		89.8			1.82	20	
Matrix Spike (P7D1303-MS1)	Sou	rce: 7D12007	-01	Prepared: (04/13/17 A	nalyzed: 04	/17/17			
Chloride	3170	5.21	mg/kg dry	1040	2360	77.8	80-120			QM-0
Batch P7D1701 - *** DEFAULT PREP ***										
Blank (P7D1701-BLK1)				Prepared &	k Analyzed	04/17/17				
% Moisture	ND	0.1	%							
Duplicate (P7D1701-DUP1)	Sou	rce: 7D10008	-26	Prepared &	k Analyzed:	: 04/17/17				
% Moisture	4.0	0.1	%		5.0			22.2	20	
Duplicate (P7D1701-DUP2)	Sou	rce: 7D10008	-53	Prepared &	Analyzed:	: 04/17/17				
% Moisture	7.0	0.1	%	-	7.0			0.00	20	
Duplicate (P7D1701-DUP3)	Sou	rce: 7D10008	-82	Prepared &	k Analyzed:	: 04/17/17				
% Moisture	14.0	0.1	%	•	15.0			6.90	20	
Duplicate (P7D1701-DUP4)	Sou	rce: 7D11003	-03	Prepared &	λ Analyzed:	: 04/17/17				
% Moisture	9.0	0.1	%		8.0			11.8	20	
Duplicate (P7D1701-DUP5)	Sou	rce: 7D12006	-01	Prepared &	λ Analyzed:	: 04/17/17				
% Moisture	6.0	0.1	%		6.0			0.00	20	

13000 West County Road 100Project Number: 498-7876-000Odessa TX, 79765Project Manager: Tim McMinn

General Chemistry Parameters by EPA / Standard Methods - Quality Control Permian Basin Environmental Lab, L.P.

											ı
		Reporting		Spike	Source		%REC		RPD		l
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes	ı

Batch P7D1701 - *** DEFAULT PREP ***

Duplicate (P7D1701-DUP6)	Source: 71	D12011-1		Prepared & Analyzed: 04/17/17		
% Moisture	3.0	0.1	%	3.0	0.00	20

Fax: (432) 563-2213

E Tech Environmental & Safety Solutions, Inc.

Project: Jack B-30 #2 Tank Battery Lightning Strike

Fax: (432) 563-2213

13000 West County Road 100 Project Number: 498-7876-000 Odessa TX, 79765 Project Manager: Tim McMinn

Notes and Definitions

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were

within acceptance limits showing that the laboratory is in control and the data is acceptable.

BULK Samples received in Bulk soil containers

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

	Dien	Davor C		
Report Approved By:			Date:	4/18/2017

RARMA

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

Effech Environmental & Safety Solutions, Inc. Company Name Company Nam	1	0	ol <i>(1</i>	<u>ы</u>	1	т-	т-	,	T	Т		$\overline{}$			10			, · · .		: '				· <u>· · ·</u> ·
Environmental & Safety Solutions, Inc. Change Change		ellinquis	pecial								1	-	1	LAB # (lab use only))RDE	lab use								Ete
Environmental & Safety Solutions, Inc. Change Change			Instru			1			1		50	80	135		#	only)	San	Tele	City	Cor	Cor	Pro		Ch
No. Continues No. Cont	3/1		Iction								5	4	6			ク	npler	s phor	/Stat	npan	npan	ject N		П
Fax No. 422-632-2200 Fax No. 422-632-2213 Report Format: Analysis for Info	10		%							١,	100	0	هَا		6	2	Sign	ne No	e/Zip	y Ado	y Nar	Manag		V
CHAIN OF CUSTODY RECORD AND ANALYSIS REPOURS Phone: 82.582.2200 Ph											-				6	2	ature	ŭ.		dress	ne e	ger:		7
12800 W Hwy 80 E												_	_	LD C	18	2	ke	43	M.		臣			ĭ
12800 W Hwy 80 E				1.1							C	5	0_	ÖDM	E	>	toy.	2-563	lland,	Box	C) EI	18		Ħ H
12800 W Hwy 80 E			1														75	2200	Теха	8469	viron			Ä
12800 W Hwy 80 E	150		,														5		s 797	.	ment	C		<u>a</u>
12800 W Hwy 80 E	National Parties	alte de															3	1	08		<u>a</u>	1		Qo
12800 W Hwy 80 E	72			H	-	 			-			-	<u> </u>		1		Q				afety	Š		Ś
12800 W Hwy 80 E	12	III III		-	-	1		-	_		-	_									Solut			afe
12800 W Hwy 80 E	J									L											ions,			Ť
12800 W Hwy 80 E	Recei	Recei S											니니								nc.			S
12800 W Hwy 80 E	ved b	ved by	<u>.</u>								4	<u> </u>	1	Date Sampled								1.		<u></u>
12800 W Hwy 80 E	/ELO	"W"							_															Lti
12800 W Hwy 80 E] =	1									_	_	3								.			0
12800 W Hwy 80 E	6	$\mathcal{D} \mid \mathcal{J}$									5	240	Ñ	Time Sampled			9	Fax						ŢS,
12800 W Hwy 80 E	X				<u> </u>	_					O		0			_	رار ت <u>ج</u>	о 2						=
Howas 79765			1							-	\leftarrow		15-200		_	0/6) (S	32-5					~ ~	੍ਹ ਨ
Howas 79765				ዙ	片	H			븜	片			K		Pre	ر ج	THE REPORT OF THE PARTY OF THE	53-22					2800 Ddes	
### Project Name: ### ### ### ########################				冒		ō				冒			Ī		servati	35	6	3					Sa, T	
### Project Name: ### ### ### ########################														H₂SO₄	9 & #	d	70						Hwy :	
NP=Non-Potable Specify Other Project Name: 432-563-2200 Fax: 432-563-2200				H		믐	H	뷰	片	븜	ዙ	H	H		လူ	()	120							
NP=Non-Potable Specify Other Project Name: Specify Other NP=Non-Potable NP=Non-Potab	4	4		崮											tainer		5 5						ĕi	
NP=Non-Potable Specify Other Project Name: Specify Other NP=Non-Potable NP=Non-Potab	12														Щ	ر ر	10							
NP=Non-Potable Specify Other Project Name: Specify Other NP=Non-Potable NP=Non-Potab															Mat	Ç	5 2	₽ Re						CH/
Sample Courier? Ups Standard TAT Pre-Schedule) 24, 48, 72 hrs Standard TAT	-2	<u> </u>													큣		<u>-</u>	port I		<u> 7</u> 0		Proj		N
Sample Courier? Ups Standard TAT	罗	Time Comme							무	무					06			-orm		rojeci	Proj	ect N)FC
	1 . 1			片	믬	븲	믬	븲	뷔	님		님	믬		- ;			24	PO#	Loc:	ect#	lame		UST
	mper	istod) istod) imple by s by c	boran Imple				固									CLP:		X		[المَّ الْحُالِينَ الْحُالِينَ الْحُلِينَ الْحُلِينَ الْحُلِينَ الْحُلِينَ الْحُلِينَ الْحُلِينَ الْحُلِينَ الْ	φ.		Удо
	ature	/ seal / seal Hand lample courier	Cont						밁						Se [目				2	28 the	1	ā	REC
	Upor	ls on a ls on a d Deliver/Clic	Comn ainers f Hea	片	붜	뷤	믬	븲	븲	믬	믬		님		╬	H	Analy	ndard			NIN	252	tone: Fax:	COR
	Rec	contai cooler vered int Re	nents s intag dspace											BTEX 8021B/5030 or BTEX 826	30		7 4 67			1	800	D F	432 432	D AA
	Pipt.	iner(s r(s) p.?	¥ € "			믜	밁	믜	믜				-		-	_					16-	12	-563 -563	ID A
	75	Ŧ		믬	믬	∦	믬	믬	뮈	∦	닏	N N				\dashv		Ρ.			OF	5	.2200 .2213	NAL
			M													亅					00	K	~ ·	YSY
	12	アググサ	22				믜	믺	믜	믜	믜		믜			_		NPDE				30		S RE
	8	oneszzz	ZZ	님		님	믭	믬	믥	믬		ᆜ	님	RUSH TAT (Pre-Schedule) 24,	48, 72	hrs	1	S				70		QUE
		<u></u>					司				図	X	X	Standard TAT) 2	10.0	