



1RP-4564: Remediation plan approved as at-risk:
- Trench 5 has not been fully delineated vertically to 600 mg/kg chlorides + minimum of 5 ft. below.
- No excavation of impacted soil on the pad for areas around Bottom Hole 5 and 6 before placement of the liner at the surface.
- Request bottom and sidewall confirmation samples at 30" for the area excavated around Bottom Hole 2 and at 24" for the area excavated around Bottom Hole 3.

Electronic Correspondence

April 4, 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)	Threshold Levels
TPH	5000 mg/kg
Benzene	10 mg/kg
BTEX	50 mg/kg
Chlorides	1000 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 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

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 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.

Table 1 Summary of Delineation 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)
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

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.

Table 3 Summary of Depth and Method of Remediation				
Sample Location	Location Type	Depth	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	Plastic Liner	Pending
Bottom Hole 6	Pad	Surface	Plastic Liner	Pending

Scope of Work

The corrective action for this site will be excavation and disposal of impacted soils. The corrective action goals for this project will be 1,000 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 Annotated Aerial Imagery).
2. Collect confirmation soil samples from the remediated area to confirm that corrective action goals have been met.
3. 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.
4. Once corrective action goals have been met, the pasture 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.
5. The battery containment, berm, and well pad will be rebuilt with caliche. The battery containment will also have fill emplaced to allow the installation of a plastic liner. The plastic liner will then be emplaced at ground surface and covered with 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.
6. 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:

A handwritten signature in cursive script that reads "Geoff Leking".

Geoff Leking,
Project Manager,
Etech Environmental & Safety Solutions, Inc.

Attachment A
Initial C-141

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company	Enervest Operating	Contact	Penny Dawson
Address	1217 Hwy 128 West Jal, NM 88252	Telephone No.	325-387-7226
Facility Name	Jack B-30 #2	Facility Type	Tank Battery
Surface Owner	Randy Crawford	Mineral Owner	State of NM/Enervest
		API No.	3002525871

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
B	30	24 S	37 East	330'	North	1725'	East	Lea County

Latitude 32 11' 172 Longitude 103 7' 944 **32.1946487,-103.1989975**

NATURE OF RELEASE

Type of Release	Produced Water and Oil	Volume of Release	80 bbl PW/ 10 Oil	Volume Recovered	76 bbl PW/9 Oil
Source of Release	Tank - Lightning Strike	Date and Hour of Occurrence	1/15/17	Date and Hour of Discovery	9:15 am
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Olivia Yu, OCD Shelly Tucker, BLM		
By Whom?	Penny Dawson	Date and Hour	1/17/17 8:00 am		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

RECEIVED
By Olivia Yu at 3:16 pm, Jan 17, 2017

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

Lightening struck tanks. Truck picked up oil and water from inside berm and moved oil out of tanks to other oil tank. Picked up water from outside on ground also. Berm put in around 2000, no liner.

Describe Area Affected and Cleanup Action Taken.*

300 bbl fiberglass tank and two 300 bbl steel tanks affected. Liquids inside berm and a small amount outside. Area also burned. Move everything off of location, put in liner. Hauling off contained soil and bring in new.

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

Signature:	OIL CONSERVATION DIVISION	
Printed Name: Penny Dawson	Approved by Environmental Specialist:	
Title: HSE Associate	Approval Date: 01/17/2017	Expiration Date:
E-mail Address: pdawson@enervest.net	Conditions of Approval:	Attached <input checked="" type="checkbox"/>
Date: 01/17/2017 Phone: 325-387-7226	see attached directive	

* Attach Additional Sheets If Necessary

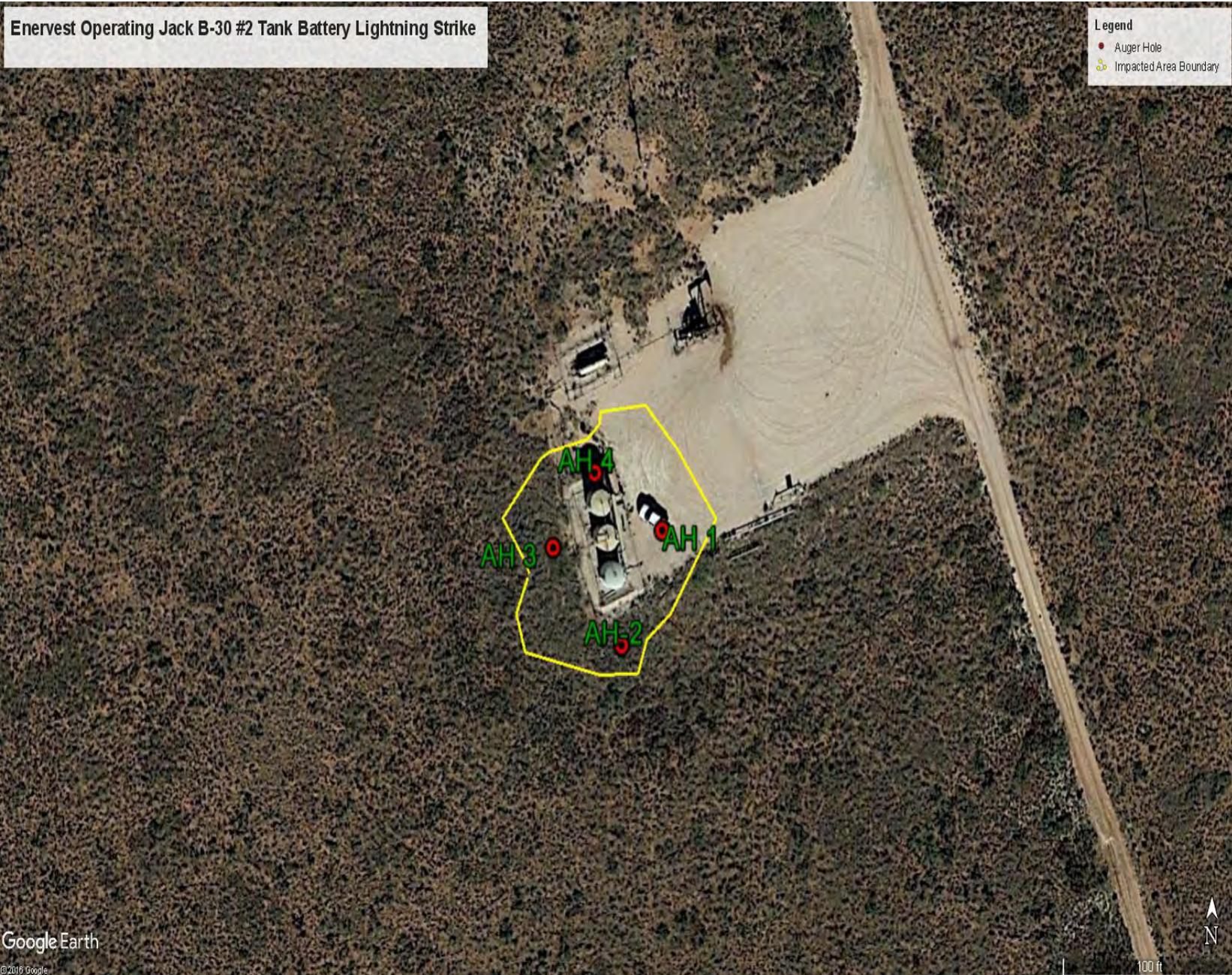
nOY1701753606

RP4564

pOY1701753884

Attachment B
Annotated Aerial Imagery

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



Legend

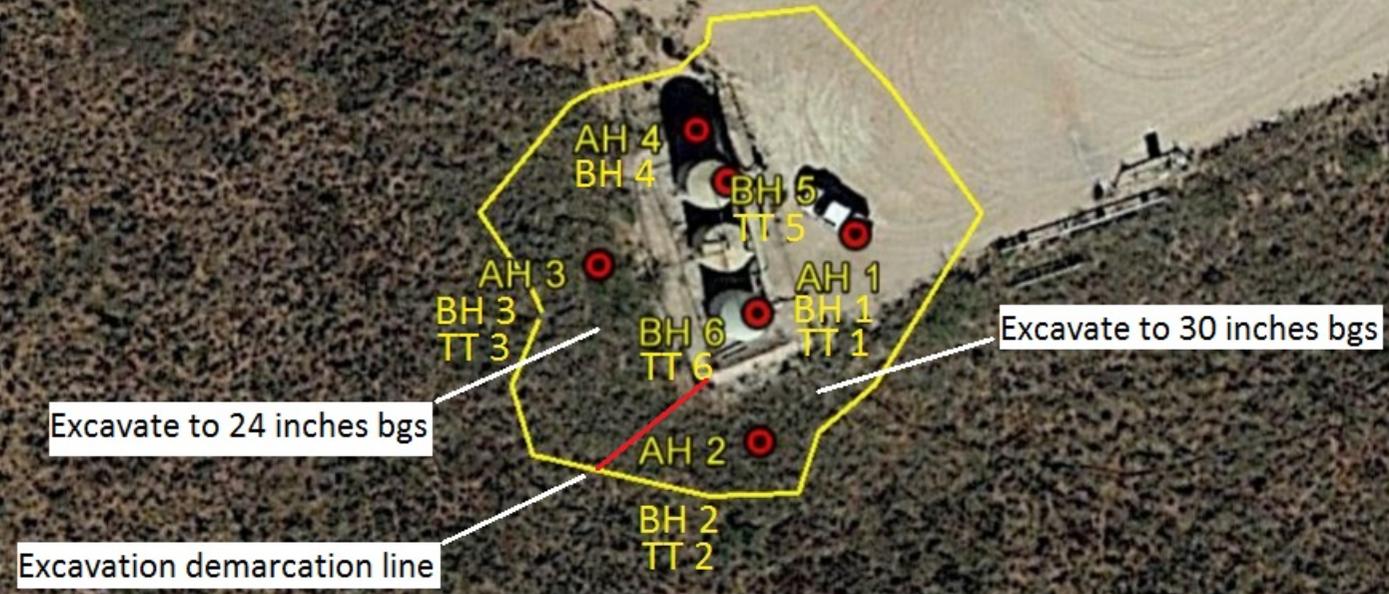
- Auger Hole
- ▭ Impacted Area Boundary

Assessment Results

Sample I.D.	Depth (ft.)	Chlorides (mg/kg)
AH 1	0-6"	320
AH 1	6-12"	<320
AH 1	12-18"	<320
AH 2	0-6"	910
AH 2	6-12"	1100
AH 2	12-18"	510
AH 2	18-24"	<320
AH 2	30-36"	<320
AH 3	0-6"	<320
AH 3	6-12"	<320
AH 4	0-6"	<320
AH 4	6-12"	<320

Above results based on field tests.

Jack B-30 #2 Tank Battery Lightning Strike



**Attachment C
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.

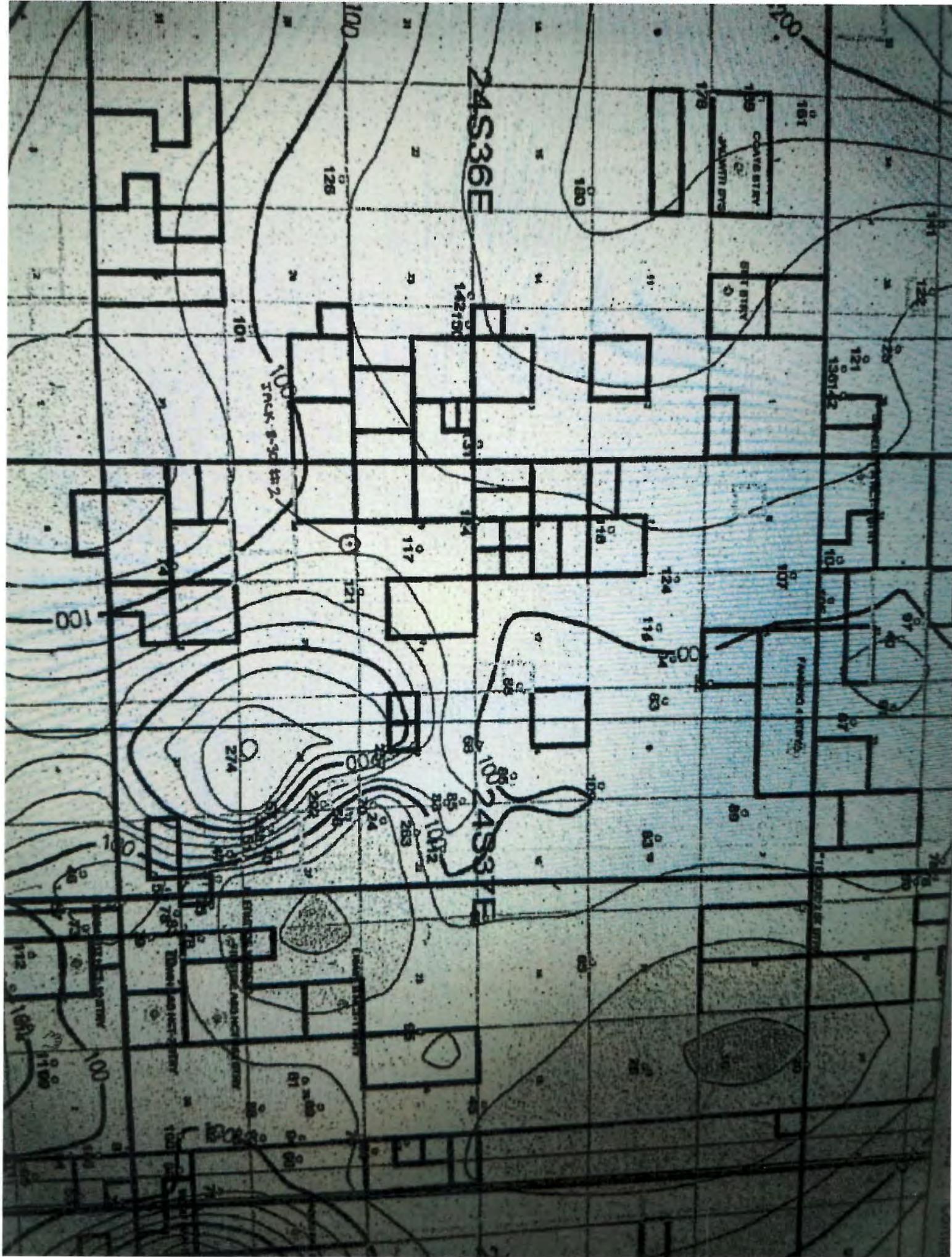


View of Test Trench 5 after backfill.



View of Test Trench 6 after backfill.

Attachment D
Depth to Groundwater Data



Jack B-30 #2 Tank Battery Lightning Strike

321204103093401 24S 37E 21

321131103115601 24S 37E 19

Jack B-30 #2

321127103112801 24S 37E 20

321131103093401 24S 37E 21
321125103093001 24S 37E 28

321107103094101 24S 37E 28
321110103093901 24S 37E 28
3211061303092801 24S 37E 28

321008103114001 24S 37E 31





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USGS Water Resources

Data Category: Geographic Area:

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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	Water-level accuracy	Status	Method of measurement	Measuring agency	Source of measurement
1953-03-02		D	69.64			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.

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Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 321152103115601

Minimum number of levels = 1

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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 measurement
1953-03-05		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?](#)

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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	Water-level accuracy	Status	Method of measurement	Measuring agency	Source of measurement
1953-03-02		D	69.64			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.

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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

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 measurement
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		D	120.54			2		S		

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	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.



National Water Information System: Web Interface

USGS Water Resources

Data Category: Geographic Area:

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Groundwater levels for New Mexico

Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 321008103114001

Minimum number of levels = 1

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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 (121OGLL) 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 measurement
1965-10-22		D	75.98				2		U	
1970-12-10		D	74.96				2		U	
1976-01-14		D	76.17				2		U	
1981-03-18		D	74.17				2		U	
1986-03-11		D	74.90				2		U	
1991-05-22		D	73.53				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.

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Agency code = usgs

site_no list =

- 321125103093001

Minimum number of levels = 1

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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	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurement
1981-03-17		D	255.43				2		U	
1986-03-05		D	263.20				2		U	
1991-05-21		D	277.06				2		U	
1996-02-28		D	291.80				2		S	
2001-03-07		D	303.74				2		S	

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.



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Agency code = usgs

site_no list =

- 321106103092801

Minimum number of levels = 1

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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.

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 measurment
1977-10-27		D	57.24			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.

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Agency code = usgs

site_no list =

- 321107103094101

Minimum number of levels = 1

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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	Water-level accuracy	Status	Method of measurement	Measuring agency	Source of measurement
1976-01-14		D	57.71			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.

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Groundwater levels for New Mexico

Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 321110103093901

Minimum number of levels = 1

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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

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 measurement
1965-10-14		D	64.46			2			U	
1968-02-26		D	64.42			2	R		U	
1970-12-10		D	64.66			2	P		U	
1976-01-14		D	64.42			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.

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Attachment E
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

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
Project Manager: Tim McMinn

Fax: (432) 563-2213

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, 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	
<i>Surrogate: 4-Bromofluorobenzene</i>		111 %	75-125		P7A3012	01/26/17	01/27/17	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		92.5 %	75-125		P7A3012	01/26/17	01/27/17	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

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 8015M

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	
<i>Surrogate: 1-Chlorooctane</i>		92.9 %	70-130		P7A3005	01/27/17	01/28/17	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		96.3 %	70-130		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	

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
 Project Manager: Tim McMinn

Fax: (432) 563-2213

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.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	
<i>Surrogate: 4-Bromofluorobenzene</i>		99.2 %	75-125		P7A3012	01/26/17	01/27/17	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		93.4 %	75-125		P7A3012	01/26/17	01/27/17	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

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 EPA Method 8015M

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	
<i>Surrogate: 1-Chlorooctane</i>		92.4 %	70-130		P7A3005	01/27/17	01/28/17	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		96.0 %	70-130		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	

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
 Project Manager: Tim McMinn

Fax: (432) 563-2213

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.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	
<i>Surrogate: 1,4-Difluorobenzene</i>		92.8 %	75-125		P7A3012	01/26/17	01/27/17	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		104 %	75-125		P7A3012	01/26/17	01/27/17	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

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 8015M

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	
<i>Surrogate: 1-Chlorooctane</i>		91.4 %	70-130		P7A3005	01/27/17	01/28/17	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		97.7 %	70-130		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	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.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	
<i>Surrogate: 1,4-Difluorobenzene</i>		91.1 %	75-125		P7A3012	01/26/17	01/27/17	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		103 %	75-125		P7A3012	01/26/17	01/27/17	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

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 EPA Method 8015M

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	
<i>Surrogate: 1-Chlorooctane</i>		92.0 %	70-130		P7A3005	01/27/17	01/28/17	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		96.1 %	70-130		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	

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
 Project Manager: Tim McMinn

Fax: (432) 563-2213

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, 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	
<i>Surrogate: 4-Bromofluorobenzene</i>		101 %		75-125	P7A3012	01/26/17	01/27/17	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		99.8 %		75-125	P7A3012	01/26/17	01/27/17	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

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-C35 by EPA Method 8015M

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	
<i>Surrogate: 1-Chlorooctane</i>		115 %		70-130	P7A3005	01/27/17	01/28/17	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		112 %		70-130	P7A3005	01/27/17	01/28/17	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	8150	263	mg/kg dry	10	[CALC]	01/27/17	01/28/17	calc	

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
 Project Manager: Tim McMinn

Fax: (432) 563-2213

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, 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	
<i>Surrogate: 4-Bromofluorobenzene</i>		97.2 %			<i>P7A3012</i>	<i>01/26/17</i>	<i>01/27/17</i>	<i>EPA 8021B</i>	
<i>Surrogate: 1,4-Difluorobenzene</i>		89.6 %			<i>P7A3012</i>	<i>01/26/17</i>	<i>01/27/17</i>	<i>EPA 8021B</i>	

General Chemistry Parameters by EPA / Standard Methods

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-C35 by EPA Method 8015M

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	
<i>Surrogate: 1-Chlorooctane</i>		93.9 %			<i>P7A3006</i>	<i>01/27/17</i>	<i>01/28/17</i>	<i>TPH 8015M</i>	
<i>Surrogate: o-Terphenyl</i>		98.9 %			<i>P7A3006</i>	<i>01/27/17</i>	<i>01/28/17</i>	<i>TPH 8015M</i>	
Total Petroleum Hydrocarbon C6-C35	105	26.0	mg/kg dry	1	[CALC]	01/27/17	01/28/17	calc	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, 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 %	75-125		P7A3012	01/26/17	01/27/17	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		87.0 %	75-125		P7A3012	01/26/17	01/27/17	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

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-C35 by EPA Method 8015M

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 %	70-130		P7A3006	01/27/17	01/28/17	TPH 8015M	
Surrogate: o-Terphenyl		95.9 %	70-130		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	

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 13000 West County Road 100
 Odessa TX, 79765

Project: Jack B-30 #2 Tank Battery Lightning Strike
 Project Number: 498-7876-000
 Project Manager: Tim McMinn

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

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	
<i>Surrogate: 4-Bromofluorobenzene</i>		109 %	75-125		P7A3012	01/26/17	01/27/17	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		91.5 %	75-125		P7A3012	01/26/17	01/27/17	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

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-C35 by EPA Method 8015M

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	
<i>Surrogate: 1-Chlorooctane</i>		91.7 %	70-130		P7A3006	01/27/17	01/28/17	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		94.5 %	70-130		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	

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P7A3012 - General Preparation (GC)

Blank (P7A3012-BLK1)										
					Prepared: 01/26/17 Analyzed: 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: 01/26/17 Analyzed: 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: 01/26/17 Analyzed: 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-GC
Surrogate: 1,4-Difluorobenzene	0.0578		"	0.0600		96.3	75-125			

Matrix Spike (P7A3012-MS1)										
			Source: 7A25001-01	Prepared: 01/26/17 Analyzed: 01/27/17						
Benzene	0.122	0.00104	mg/kg dry	0.104	ND	118	80-120			
Toluene	0.109	0.00208	"	0.104	ND	105	80-120			
Ethylbenzene	0.122	0.00104	"	0.104	ND	117	80-120			
Xylene (p/m)	0.220	0.00208	"	0.208	ND	105	80-120			
Xylene (o)	0.110	0.00104	"	0.104	ND	106	80-120			
Surrogate: 4-Bromofluorobenzene	0.0646		"	0.0625		103	75-125			
Surrogate: 1,4-Difluorobenzene	0.0613		"	0.0625		98.1	75-125			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P7A3012 - General Preparation (GC)

Matrix Spike Dup (P7A3012-MSD1)	Source: 7A25001-01			Prepared: 01/26/17 Analyzed: 01/27/17						
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			

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

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P7A3005 - TX 1005

Blank (P7A3005-BLK1)

Prepared: 01/27/17 Analyzed: 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 Analyzed: 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 Analyzed: 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)

Source: 7A25001-04

Prepared: 01/27/17 Analyzed: 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 Analyzed: 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			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7A3006 - TX 1005										
LCS (P7A3006-BS1)										
				Prepared: 01/27/17 Analyzed: 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 Analyzed: 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)										
		Source: 7A24008-03		Prepared: 01/27/17 Analyzed: 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)										
		Source: 7A24008-03		Prepared: 01/27/17 Analyzed: 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			

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
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

Report Approved By:



Date:

2/1/2017

Brent Barron, Laboratory Director/Technical Director

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

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
Project Manager: Tim McMinn

Fax: (432) 563-2213

**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

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, 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	
<i>Surrogate: 4-Bromofluorobenzene</i>		101 %	75-125		P7B2203	02/21/17	02/21/17	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		101 %	75-125		P7B2203	02/21/17	02/21/17	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

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 EPA Method 8015M

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	
<i>Surrogate: 1-Chlorooctane</i>		98.4 %	70-130		P7B2207	02/21/17	02/21/17	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		109 %	70-130		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	

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

Project: Enervest JackB-30 #2 Tank Battery Lightning St
Project Number: 498-7876-000
Project Manager: Tim McMinn

Fax: (432) 563-2213

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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	

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

Project: Enervest JackB-30 #2 Tank Battery Lightning St
Project Number: 498-7876-000
Project Manager: Tim McMinn

Fax: (432) 563-2213

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, 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 %	75-125		P7B2203	02/21/17	02/21/17	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		113 %	75-125		P7B2203	02/21/17	02/21/17	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

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 8015M

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 %	70-130		P7B2207	02/21/17	02/21/17	TPH 8015M	
Surrogate: o-Terphenyl		103 %	70-130		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	

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

Project: Enervest JackB-30 #2 Tank Battery Lightning St
Project Number: 498-7876-000
Project Manager: Tim McMinn

Fax: (432) 563-2213

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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	

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

Project: Enervest JackB-30 #2 Tank Battery Lightning St
Project Number: 498-7876-000
Project Manager: Tim McMinn

Fax: (432) 563-2213

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, 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 %	75-125		P7B2203	02/21/17	02/21/17	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		110 %	75-125		P7B2203	02/21/17	02/21/17	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

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-C35 by EPA Method 8015M

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 %	70-130		P7B2207	02/21/17	02/21/17	TPH 8015M	
Surrogate: o-Terphenyl		102 %	70-130		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	

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

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

Fax: (432) 563-2213

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

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	

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

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

Fax: (432) 563-2213

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

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	

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

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 Project Manager: Tim McMinn

Fax: (432) 563-2213

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, 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 %	75-125		P7B2203	02/21/17	02/21/17	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		93.2 %	75-125		P7B2203	02/21/17	02/21/17	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

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-C35 by EPA Method 8015M

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 %	70-130		P7B2207	02/21/17	02/21/17	TPH 8015M	
Surrogate: o-Terphenyl		101 %	70-130		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	

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Odessa TX, 79765

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Project Manager: Tim McMinn

Fax: (432) 563-2213

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

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	

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

Project: Enervest JackB-30 #2 Tank Battery Lightning St
Project Number: 498-7876-000
Project Manager: Tim McMinn

Fax: (432) 563-2213

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

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	

Bottom Hole 5 12"
7B20006-13 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

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	
<i>Surrogate: 1,4-Difluorobenzene</i>		102 %		75-125	P7B2203	02/21/17	02/21/17	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		92.1 %		75-125	P7B2203	02/21/17	02/21/17	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

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 by EPA Method 8015M

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	
<i>Surrogate: 1-Chlorooctane</i>		106 %		70-130	P7B2207	02/21/17	02/21/17	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		88.6 %		70-130	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	

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

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 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
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

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-C35 by EPA Method 8015M

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	
<i>Surrogate: 1-Chlorooctane</i>		103 %	70-130		P7C0205	02/28/17	03/01/17	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		113 %	70-130		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	

E Tech Environmental & Safety Solutions, Inc.
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Odessa TX, 79765

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Project Manager: Tim McMinn

Fax: (432) 563-2213

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

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	

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Fax: (432) 563-2213

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

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	

E Tech Environmental & Safety Solutions, Inc.
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Odessa TX, 79765

Project: Enervest JackB-30 #2 Tank Battery Lightning St
Project Number: 498-7876-000
Project Manager: Tim McMinn

Fax: (432) 563-2213

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

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	

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

Project: Enervest JackB-30 #2 Tank Battery Lightning St
Project Number: 498-7876-000
Project Manager: Tim McMinn

Fax: (432) 563-2213

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

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	

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

Project: Enervest JackB-30 #2 Tank Battery Lightning St
Project Number: 498-7876-000
Project Manager: Tim McMinn

Fax: (432) 563-2213

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

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	

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

Project: Enervest JackB-30 #2 Tank Battery Lightning St
Project Number: 498-7876-000
Project Manager: Tim McMinn

Fax: (432) 563-2213

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

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	

E Tech Environmental & Safety Solutions, Inc.
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Odessa TX, 79765

Project: Enervest JackB-30 #2 Tank Battery Lightning St
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Fax: (432) 563-2213

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

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	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, 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 %	75-125		P7B2203	02/21/17	02/21/17	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		113 %	75-125		P7B2203	02/21/17	02/21/17	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

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-C35 by EPA Method 8015M

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 %	70-130		P7B2207	02/21/17	02/21/17	TPH 8015M	
Surrogate: o-Terphenyl		104 %	70-130		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	

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

Project: Enervest JackB-30 #2 Tank Battery Lightning St
Project Number: 498-7876-000
Project Manager: Tim McMinn

Fax: (432) 563-2213

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

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	

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Fax: (432) 563-2213

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

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	

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Fax: (432) 563-2213

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

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	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

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	

E Tech Environmental & Safety Solutions, Inc.
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Odessa TX, 79765

Project: Enervest JackB-30 #2 Tank Battery Lightning St
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Test Trench 6 6'
7B20006-27 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

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	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

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	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

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	

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P7B2203 - General Preparation (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	
Toluene	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)

Source: 7B20006-01

Prepared & Analyzed: 02/21/17

Benzene	0.112	0.00103	mg/kg dry		ND		80-120			
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			

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Fax: (432) 563-2213

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P7B2203 - General Preparation (GC)

Matrix Spike Dup (P7B2203-MSD1)	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	
<i>Surrogate: 1,4-Difluorobenzene</i>	<i>0.0674</i>		<i>"</i>	<i>0.0619</i>		<i>109</i>	<i>75-125</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0709</i>		<i>"</i>	<i>0.0619</i>		<i>115</i>	<i>75-125</i>			

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

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

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

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

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 Project Manager: Tim McMinn

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

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7B2207 - TX 1005										
Blank (P7B2207-BLK1)										
Prepared & 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 & 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 & 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)										
Source: 7B20011-05 Prepared: 02/21/17 Analyzed: 02/22/17										
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)										
Source: 7B20011-05 Prepared: 02/21/17 Analyzed: 02/22/17										
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			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P7C0205 - TX 1005

Blank (P7C0205-BLK1)

Prepared: 02/28/17 Analyzed: 03/01/17

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: 02/28/17 Analyzed: 03/01/17

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: 02/28/17 Analyzed: 03/01/17

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)

Source: 7B20006-21

Prepared: 02/28/17 Analyzed: 03/02/17

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)

Source: 7B20006-21

Prepared: 02/28/17 Analyzed: 03/02/17

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			

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

Report Approved By:



Date:

3/8/2017

Brent Barron, Laboratory Director/Technical Director

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