ETECH
Environmental & Safety Solutions, Inc.

APPROVED
By Olivia Yu at 1:09 pm, Apr 20, 2017

Electronic Correspondence

April 12, 2017

NMOCD approves 1RP-4437 for excavation and liner with the specified parameters.

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

Re: Corrective Action Plan- 4437
SOGO III, SFPRR A
Legal: Unit K, Sec 27, T9S R37E, Lea County, NM
Latitude/Longitude: 33.501784/ -103.145577
Etech Proj. Number: 584-7504-000
Depth to Groundwater: 150-165 feet - Chevron/Texaco Lea County Depth to Groundwater Map
Release Type: Produced Water

Contaminants of Concern (COC's)	Threshold Levels
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 September 7, 2016, lightning struck tanks located at the SFPRR lease causing a release of fluids inside the location's soil containment. Approximately 630 barrels (bbl.) of produced water and oil were released into the containment. Approximately 460 bbl. of fluid were recovered and disposed. Tank bottoms and solids were jetted using a hot oiler and taken to disposal.

An initial sampling was conducted of the impacted area on September 13, 2016 by SOGO employees. Samples were collected from five (5) locations of the impacted area utilizing a backhoe. The samples were analyzed for TPH, BTEX and Chlorides. The results of analyses determined that TPH and BTEX values were below reporting limits. Chloride levels ranged from 48 mg/kg to 5,680 mg/kg.

An assessment of the site was conducted on September 22, 2016 by Etech. It was determined that the release was contained inside the soil containment and impacted an area of approximately 8,000 square feet with the exception of less than one bbl. of fluid that was released onto the location. SOGO had excavated approximately 400 cubic yards of impacted material and staged the material on plastic for disposal.

Due to the site not being delineated to below 250 mg/kg on initial assessment, the site was further delineated on September 22, 2016. A backhoe was utilized to dig test trenches in three separate locations inside the containment. Chloride levels ranged from 900 ppm to 11,160 ppm. Additional delineation was performed on December 15, 2016. An air rotary drilling rig was utilized to perform soil

borings at five separate locations. Chloride levels ranged from 41 to 3,890 ppm. Please find copies of the assessment sheets, well records and logs, and the analytical results attached.

Scope of Work

The corrective action for this site will be to excavate inside the containment to a depth of four feet. Following this, a plastic liner (>20 mil) will be placed inside the excavated area to prevent further vertical migration of chlorides. Oil tanks are still in production inside the battery, therefore excavation of soils inside the containment will be conducted only in areas where it is practicably possible to do so without disturbing the soil integrity around the tanks. SOGO initially excavated impacted areas inside the containment to a depth of 2-3 feet below ground surface (bgs). Therefore, Etech will excavate approximately 1-2 feet bgs. A trench was present inside of the containment on the north side that ran from east to west prior to the lightning strike. Delineation data from sample points on the south side of the containment show soils are below threshold levels, therefore further excavation will not be conducted on the southern half of the containment. Excavation will be conducted on the northern half where the trench was located and elevated levels of chlorides remain (See Figure 1).

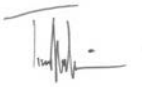
Once soils are excavated, samples will be collected from the excavated area. Excavated soil will be disposed of to a permitted disposal facility. The lined excavated area will then be backfilled with clean material. We believe this to be the most practicable way to approach this site. The corrective action goals for this project will be 1,000 mg/kg of chlorides. The levels of TPH and BTEX found from the assessment are below action levels for this project, therefore they will not be tested for going forward.

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 me at (432) 563-2200 (office) or via email at tim@etechenv.com.

Respectfully:



Tim McMinn
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 SOGO III LLC	Contact Billy M. Priebe
Address P.O. Box 210, Midland, TX 79702	Telephone No. 432-640-0040
Facility Name SFPRR	Facility Type Tank Battery/Injection Station

Surface Owner Michael Harton	Mineral Owner Santa Fe, et al	API No. NA

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
K	27	09S	37E	1310	South	1330	West	Lea

Latitude 33.501784 **Longitude** -103.145577

NATURE OF RELEASE

Type of Release Oil & Water	Volume of Release 630	Volume Recovered 460
Source of Release Tank Battery	Date and Hour of Occurrence 9/7/16, hour unknown	Date and Hour of Discovery 9/07/16, 8 AM
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Mark Whitaker @ 9:46 AM	
By Whom? Jackie Washburn, SOGO Production Foreman	Date and Hour 9/07/16 9:45 AM	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
Tank battery/injection station on the SFPRR lease (est. 20 miles NE of Tatum, NM) burned. The fire is believed to have been caused by lightening since thunderstorms were in the area.

Describe Area Affected and Cleanup Action Taken.*
The majority of fluid from the tanks was contained by a firewall with the exception of a small amount that ran onto the location. The free liquid was picked up by a vacuum truck and taken to disposal. Tank bottoms and solids were jetted using a hot oiler and taken to disposal. Contaminated soil will be removed.

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: Billy M. Priebe	OIL CONSERVATION DIVISION	
Printed Name: Billy M. Priebe	Approved by Environmental Specialist:	
Title: Executive VP - Operations	Approval Date:	Expiration Date:
E-mail Address: bpriebe@stanolind.com	Conditions of Approval:	Attached ☐
Date: 9/09/2016 Phone:432-640-0040		

* Attach Additional Sheets If Necessary

Attachment B
Annotated Aerial Imagery

Figure 1
General Site Location
Excavation Plan

Stanolind Oil & Gas III, LLC
SFPRR Lease

Project Number
584-7504-000

Note:
Red shaded area denotes area to be further excavated and lined with a poly liner.

Prepared For:

Stanolind Oil & Gas
PO Box 210
Midland, Texas 79702

Prepared By:

Etech Environmental and Safety Solutions, Inc.
P.O. Box 62228
Midland ,TX 79711

ETECH
Environmental & Safety Solutions, Inc.

ETECH Environmental & Safety Solutions, Inc.

Delineation & Assessment Report ©	Lease Name:	SOGO SFPRR #26	Case No.:	Event 4437
	Date Assessed:	9/22/16		

Assessment Results

Sample I.D.	Depth (ft.)	Chlorides (mg/kg)
NE*	1	1,760
NE*	2	3,120
NE*	3	5,680
NE**	6	900
NE**	7	3,100
SE*	1	112
SE*	2	48
SE*	3	128
Middle*	1	624
Middle*	2	640
Middle*	3	736
Middle**	5	990
Middle**	8	11,160
SW*	1	240
SW*	2	240
SW*	3	352
NW*	1	2,040
NW*	2	2,360
NW*	3	2,880
NW**	4	1,090
NW**	5	1,800
NW**	7	1,620
NW**	8	990

* Denotes soil sample collected on 9/13/2016. Chloride concentration based on laboratory analysis. Chloride,TPH, and BTEX analytical attached.

** Denotes soil sample collected on 9/22/2016. Chloride concentration based on field test.

Delineation & Assessment Report ©	Lease Name:	SOGO SFPRR #26	Case No.:	Event 4437
	Date Assessed:	12/15/16		

Assessment Results

Sample I.D.	Depth (ft.)	Chlorides (mg/kg)
NE a*	9	490
NE a*	11	350
NE a*	13	350
NE a**	15	83.7
NE a**	17	41
N1*	2	910
N1*	4	510
N1*	6	380
N1**	8	223
N2*	2	900
N2*	4	1,690
N2*	6	560
N2**	8	521
N2**	10	969
N2**	12	249
NW a**	10	83.3
NW a**	12	228
Middle a*	10	3,360
Middle a*	12	3,620
Middle a*	14	3,620
Middle a*	16	2,510
Middle a*	18	820
Middle a*	20	3,360
Middle a*	22	3,890
Middle a*	24	2,510
Middle a*	26	320
Middle a**	28	296
Middle a**	30	198

* Denotes chloride concentration based on field test.

** Denotes chloride concentration based on laboratory analysis. Chloride, TPH, and BTEX analytical attached.

Attachment C
Well Records and Logs

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NUMBER (WELL NUMBER): (POD 1) SFPRR #26 UNIT K SB-1	OSE FILE NUMBER(S): L-14231
WELL OWNER NAME(S): ETECH ENVIRONMENTAL & SAFETY SOULUTIONS, INC	PHONE (OPTIONAL):
WELL OWNER MAILING ADDRESS: P.O. Box 62228	CITY: Midland STATE: Tx ZIP: 79711

WELL LOCATION (FROM GPS)	DEGREES	MINUTES	SECONDS	
LATITUDE	33	30	7	N
LONGITUDE	103	8	43	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

TURN WEST ONTO WHITE RANCH ROAD. GO WEST FOR 1.2 MI TO UNNAMED LEASE ROAD. TURN N & GO 0.6 MI TO SITE.

2. DRILLING & CASING INFORMATION

LICENSE NUMBER	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD1711	EDWARD BRYAN	STRAUB CORPORATION

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
12-15-16	12-15-16	18'	18'	N/A

COMPLETED WELL IS: ( ) ARTESIAN (•) DRY HOLE ( ) SHALLOW (UNCONFINED) — STATIC WATER LEVEL IN COMPLETED WELL (FT): N/A

DRILLING FLUID: (•) AIR ( ) MUD ADDITIVES – SPECIFY:

DRILLING METHOD: (•) ROTARY ( ) HAMMER ( ) CABLE TOOL ( ) OTHER – SPECIFY:

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
0	18'	6"	N/A	N/A	N/A	N/A	N/A

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	2	6"	.5 CEMENT		TOPLOAD
2	18	6"	6 BAGS OF 3/8 HOLEPLUG		TOPLOAD

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

FILE NUMBER	POD NUMBER	TRN NUMBER
LOCATION		PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	2'	2'	TAN FINE SAND - CALICHE - SANDSTONE	○ Y ◉ N	N/A
2'	5'	3'	BROWN FINE SAND WITH CLAY	○ Y ◉ N	N/A
5'	11'	6'	TAN FINE SAND WITH CEMENT SANDSTONE	○ Y ◉ N	N/A
11'	14'	3'	TAN FINE SAND SILICEOUS SANDSTONE	○ Y ◉ N	N/A
14'	18'	4'	TAN FINE SAND - CEMENT SANDSTONE	○ Y ◉ N	N/A
TD	18'			○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
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				○ Y ○ N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: ○ PUMP ○ AIR LIFT ○ BAILER ○ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm):

5. TEST; RIG SUPERVISION

WELL TEST — TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:

SOIL BORING ONLY - SOIL BORING WAS PLUGGED AND ABANDONED UPON COMPLETION OF SAMPLING.
LEA COUNTY, NM
UNIT L, SECTION 27, TOWNSHIP 9 SOUTH, RANGE 37 EAST

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

6. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:

Edward Bryan Edward Bryan — SIGNATURE OF DRILLER / PRINT SIGNEE NAME

12-19-16 — 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

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NUMBER (WELL NUMBER): (POD 2) SFPRR #26 UNIT K SB-2	OSE FILE NUMBER(S): L-14231
WELL OWNER NAME(S): ETECH ENVIRONMENTAL & SAFETY SOULUTIONS, INC	PHONE (OPTIONAL):
WELL OWNER MAILING ADDRESS: P.O. Box 62228	CITY: Midland STATE: Tx ZIP: 79711

WELL LOCATION (FROM GPS)	DEGREES	MINUTES	SECONDS	
LATITUDE	33	30	7	N
LONGITUDE	103	8	44	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND

* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

TURN WEST ONTO WHITE RANCH ROAD. GO WEST FOR 1.2 MI TO UNNAMED LEASE ROAD. TURN N & GO 0.6 MI TO SITE.

2. DRILLING & CASING INFORMATION

LICENSE NUMBER	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD1711	EDWARD BRYAN	STRAUB CORPORATION

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
12-15-16	12-15-16	26'	26'	N/A

COMPLETED WELL IS: ( ) ARTESIAN (•) DRY HOLE ( ) SHALLOW (UNCONFINED) — STATIC WATER LEVEL IN COMPLETED WELL (FT): N/A

DRILLING FLUID: (•) AIR ( ) MUD ADDITIVES – SPECIFY:

DRILLING METHOD: (•) ROTARY ( ) HAMMER ( ) CABLE TOOL ( ) OTHER – SPECIFY

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
0	26'	6"	N/A	N/A	N/A	N/A	N/A

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	2'	6"	.5 CEMENT		TOPLOAD
2'	26'	6"	7 BAGS OF 3/8 HOLEPLUG		TOPLOAD

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/08/2012)

FILE NUMBER	POD NUMBER	TRN NUMBER
LOCATION		PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	5'	5'	BROWN FINE SAND WITH CLAY	○ Y ◉ N	N/A
5'	14	9'	TAN FINE SAND - CEMENT SANDSTONE CALICHE	○ Y ◉ N	N/A
14'	17'	3'	TAN FINE SAND - SILICEOUS SANDSTONE	○ Y ◉ N	N/A
17'	22'	5'	TAN FINE SAND - CEMENT SANDSTONE	○ Y ◉ N	N/A
22'	26'	4'	TAN FINE SAND	○ Y ◉ N	N/A
TD	26'			○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
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				○ Y ○ N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: ○ PUMP ○ AIR LIFT ○ BAILER ○ OTHER – SPECIFY

TOTAL ESTIMATED WELL YIELD (gpm):

5. TEST; RIG SUPERVISION

WELL TEST — TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:

SOIL BORING ONLY - SOIL BORING WAS PLUGGED AND ABANDONED UPON COMPLETION OF SAMPLING.
LEA COUNTY, NM
UNIT L, SECTION 27, TOWNSHIP 9 SOUTH, RANGE 37 EAST

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

6. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:

Edwin O. Bryan — Edwin O. Bryan
SIGNATURE OF DRILLER / PRINT SIGNEE NAME

12-19-16
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

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

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1. GENERAL AND WELL LOCATION

OSE POD NUMBER (WELL NUMBER)	OSE FILE NUMBER(S)
(POD 3) SFPRR #26 UNIT K SB-3	L-14231
WELL OWNER NAME(S)	**PHONE (OPTIONAL)**
ETECH ENVIRONMENTAL & SAFETY SOULUTIONS, INC	
WELL OWNER MAILING ADDRESS	**CITY / STATE / ZIP**
P.O. Box 62228	Midland / Tx / 79711

WELL LOCATION (FROM GPS)	DEGREES	MINUTES	SECONDS	
LATITUDE	33	30	7	N
LONGITUDE	103	8	44	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND

* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

TURN WEST ONTO WHITE RANCH ROAD. GO WEST FOR 1.2 MI TO UNNAMED LEASE ROAD. TURN N & GO 0.6 MI TO SITE.

2. DRILLING & CASING INFORMATION

LICENSE NUMBER	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD1711	EDWARD BRYAN	STRAUB CORPORATION

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
12-15-16	12-15-16	30'	30'	N/A

COMPLETED WELL IS: ( ) ARTESIAN (•) DRY HOLE ( ) SHALLOW (UNCONFINED) — STATIC WATER LEVEL IN COMPLETED WELL (FT): N/A

DRILLING FLUID: (•) AIR ( ) MUD ADDITIVES – SPECIFY:

DRILLING METHOD: (•) ROTARY ( ) HAMMER ( ) CABLE TOOL ( ) OTHER – SPECIFY

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
0	30'	6"	N/A	N/A	N/A	N/A	N/A

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	2'	6"	.5 CEMENT		TOPLOAD
2'	30'	6"	8 BAGS OF 3/8 HOLEPLUG		TOPLOAD

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

FILE NUMBER	POD NUMBER	TRN NUMBER
LOCATION		PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	22'	22'	TAN FINE SAND - SANDSTONE CALICHE	○ Y ◉ N	N/A
22'	26'	4'	TAN FINE SAND - SANDSTONE	○ Y ◉ N	N/A
26'	30'	4'	TAN FINE SAND	○ Y ◉ N	N/A
TD	30'			○ Y ◉ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
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				○ Y ○ N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: ○ PUMP ○ AIR LIFT ○ BAILER ○ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm):

5. TEST; RIG SUPERVISION

WELL TEST — TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD

MISCELLANEOUS INFORMATION:

SOIL BORING ONLY - SOIL BORING WAS PLUGGED AND ABANDONED UPON COMPLETION OF SAMPLING.
LEA COUNTY, NM
UNIT L, SECTION 27, TOWNSHIP 9 SOUTH, RANGE 37 EAST

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

6. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING

Edwin Ruiz

SIGNATURE OF DRILLER / PRINT SIGNEE NAME

DATE

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/08/2012)

FILE NUMBER	POD NUMBER	TRN NUMBER
LOCATION		

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NUMBER (WELL NUMBER): (POD 4) SFPRR #26 UNIT K SB-4	OSE FILE NUMBER(S): L-14231
WELL OWNER NAME(S): ETECH ENVIRONMENTAL & SAFETY SOULUTIONS, INC	PHONE (OPTIONAL):
WELL OWNER MAILING ADDRESS: P.O. Box 62228	CITY: Midland STATE: Tx ZIP: 79711

WELL LOCATION (FROM GPS)	DEGREES	MINUTES	SECONDS	
LATITUDE	33	30	7	N
LONGITUDE	103	8	43	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

TURN WEST ONTO WHITE RANCH ROAD. GO WEST FOR 1.2 MI TO UNNAMED LEASE ROAD. TURN N & GO 0.6 MI TO SITE.

2. DRILLING & CASING INFORMATION

LICENSE NUMBER	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD1711	EDWARD BRYAN	STRAUB CORPORATION

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
12-15-16	12-15-16	18'	18'	N/A

COMPLETED WELL IS: ( ) ARTESIAN (•) DRY HOLE ( ) SHALLOW (UNCONFINED) — STATIC WATER LEVEL IN COMPLETED WELL (FT): N/A

DRILLING FLUID: (•) AIR ( ) MUD ADDITIVES – SPECIFY:

DRILLING METHOD: (•) ROTARY ( ) HAMMER ( ) CABLE TOOL ( ) OTHER – SPECIFY:

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
0	18'	6"	N/A	N/A	N/A	N/A	N/A

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	2'	6"	.5 CEMENT		TOPLOAD
2'	18'	6"	5 BAGS OF 3/8 HOLEPLUG		TOPLOAD

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/08/2012)

FILE NUMBER	POD NUMBER	TRN NUMBER
LOCATION		PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	4'	4'	BROWN FINE SAND WITH CLAY	○ Y ◉ N	N/A
4'	10'	6'	TAN FINE SAND - CALICHE - SANDSTONE	○ Y ◉ N	N/A
10'	18'	8'	TAN FINE SAND - CEMENT SANDSTONE	○ Y ◉ N	N/A
TD	18'			○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
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				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: ○ PUMP ○ AIR LIFT ○ BAILER ○ OTHER – SPECIFY

TOTAL ESTIMATED WELL YIELD (gpm):

5. TEST; RIG SUPERVISION

WELL TEST — TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:

SOIL BORING ONLY - SOIL BORING WAS PLUGGED AND ABANDONED UPON COMPLETION OF SAMPLING.
LEA COUNTY, NM
UNIT L, SECTION 27, TOWNSHIP 9 SOUTH, RANGE 37 EAST

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

6. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING.

SIGNATURE OF DRILLER / 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

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NUMBER (WELL NUMBER): (POD 5) SFPRR #26 UNIT K SB-5	OSE FILE NUMBER(S): L-14231
WELL OWNER NAME(S): ETECH ENVIRONMENTAL & SAFETY SOULUTIONS, INC	PHONE (OPTIONAL):
WELL OWNER MAILING ADDRESS: P.O. Box 62228	CITY: Midland STATE: Tx ZIP: 79711

WELL LOCATION (FROM GPS)	DEGREES	MINUTES	SECONDS	
LATITUDE	33	30	7	N
LONGITUDE	103	8	44	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

TURN WEST ONTO WHITE RANCH ROAD. GO WEST FOR 1.2 MI TO UNNAMED LEASE ROAD. TURN N & GO 0.6 MI TO SITE.

2. DRILLING & CASING INFORMATION

LICENSE NUMBER	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD1711	EDWARD BRYAN	STRAUB CORPORATION

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
12-15-16	12-15-16	30'	30'	N/A

COMPLETED WELL IS: ( ) ARTESIAN (•) DRY HOLE ( ) SHALLOW (UNCONFINED) — STATIC WATER LEVEL IN COMPLETED WELL (FT): N/A

DRILLING FLUID: (•) AIR ( ) MUD ADDITIVES – SPECIFY:

DRILLING METHOD: (•) ROTARY ( ) HAMMER ( ) CABLE TOOL ( ) OTHER – SPECIFY:

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
0	30'	6"	N/A	N/A	N/A	N/A	N/A

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	2'	6"	.5 CEMENT		TOPLOAD
2'	30'	6"	9 BAGS OF 3/8 HOLEPLUG		TOPLOAD

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/08/2012)

FILE NUMBER	POD NUMBER	TRN NUMBER
LOCATION		PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	3'	3'	BROWN FINE SAND WITH CLAY	○ Y ◉ N	N/A
3'	14'	11'	TAN FINE SAND - CALICHE - SANDSTONE	○ Y ◉ N	N/A
14'	18'	4'	TAN FINE SAND - CEMENT SANDSTONE	○ Y ◉ N	N/A
18'	26'	8'	TAN FINE SAND - SANDSTONE	○ Y ◉ N	N/A
26'	30'	4'	TAN FINE SAND	○ Y ◉ N	N/A
TD	30'			○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
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				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: ○ PUMP ○ AIR LIFT ○ BAILER ○ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm):

5. TEST; RIG SUPERVISION

WELL TEST — TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD

MISCELLANEOUS INFORMATION

SOIL BORING ONLY - SOIL BORING WAS PLUGGED AND ABANDONED UPON COMPLETION OF SAMPLING.
LEA COUNTY, NM
UNIT L, SECTION 27, TOWNSHIP 9 SOUTH, RANGE 37 EAST

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

6. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING

SIGNATURE OF DRILLER / 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 tank battery looking to the northwest.

View of front of tank battery looking to the east.

View of the northwest corner of the tank battery.

View of tank pad where previous tanks were located looking east; stockpile of excavated material in background.

View of Middle test trench.

View of NW test trench.

View of NE test trench.

View of stockpile of excavated impacted material.

View of stockpile of excavated impacted material.

View of boring NE a after plugging and abandonment.

View of of boring N1 after plugging and abandonment.

View of drilling operations at the boring N2 location.

View of boring N2 after plugging and abandonment.

View of boring NW a after plugging and abandonment.

View of emplacement of bentonite plug in boring Middle a during plugging and abandonment.

View of boring Middle a after plugging and abandonment.

Close up view of boring Middle a after plugging and abandonment.

Attachment E
Analytical Results

CARDINAL Laboratories

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

September 14, 2016

JACKIE WASHBURN

STANOLIND OIL & GAS LLC

310 W. WALL STREET, STE. 1000

MIDLAND, TX 79701

RE: S F P R R #26

Enclosed are the results of analyses for samples received by the laboratory on 09/13/16 11:25.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

STANOLIND OIL & GAS LLC
JACKIE WASHBURN
310 W. WALL STREET, STE. 1000
MIDLAND TX, 79701
Fax To: (432) 640-0099

Received:	09/13/2016	Sampling Date:	09/13/2016
Reported:	09/14/2016	Sampling Type:	Soil
Project Name:	S F P R R #26	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: NORTH EAST @ 1' (H602043-01)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2016	ND	2.06	103	2.00	4.53	
Toluene*	<0.050	0.050	09/13/2016	ND	2.02	101	2.00	3.31	
Ethylbenzene*	<0.050	0.050	09/13/2016	ND	1.96	98.2	2.00	3.25	
Total Xylenes*	<0.150	0.150	09/13/2016	ND	5.97	99.5	6.00	3.05	
Total BTEX	<0.300	0.300	09/13/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID *98.8 %* *73.6-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1760**	16.0	09/14/2016	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/13/2016	ND	193	96.7	200	0.0781	
DRO >C10-C28	<10.0	10.0	09/13/2016	ND	196	97.8	200	1.72	

Surrogate: 1-Chlorooctane *86.0 %* *35-147*

Surrogate: 1-Chlorooctadecane *94.3 %* *28-171*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

STANOLIND OIL & GAS LLC
JACKIE WASHBURN
310 W. WALL STREET, STE. 1000
MIDLAND TX, 79701
Fax To: (432) 640-0099

Received:	09/13/2016	Sampling Date:	09/13/2016
Reported:	09/14/2016	Sampling Type:	Soil
Project Name:	S F P R R #26	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: NORTH EAST @ 2' (H602043-02)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2016	ND	2.06	103	2.00	4.53	
Toluene*	<0.050	0.050	09/13/2016	ND	2.02	101	2.00	3.31	
Ethylbenzene*	<0.050	0.050	09/13/2016	ND	1.96	98.2	2.00	3.25	
Total Xylenes*	<0.150	0.150	09/13/2016	ND	5.97	99.5	6.00	3.05	
Total BTEX	<0.300	0.300	09/13/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID *97.9 %* *73.6-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**3120**	16.0	09/14/2016	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/13/2016	ND	193	96.7	200	0.0781	
DRO >C10-C28	<10.0	10.0	09/13/2016	ND	196	97.8	200	1.72	

Surrogate: 1-Chlorooctane *83.5 %* *35-147*

Surrogate: 1-Chlorooctadecane *92.4 %* *28-171*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

STANOLIND OIL & GAS LLC
JACKIE WASHBURN
310 W. WALL STREET, STE. 1000
MIDLAND TX, 79701
Fax To: (432) 640-0099

Received:	09/13/2016	Sampling Date:	09/13/2016
Reported:	09/14/2016	Sampling Type:	Soil
Project Name:	S F P R R #26	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: NORTH EAST @ 3' (H602043-03)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2016	ND	2.06	103	2.00	4.53	
Toluene*	<0.050	0.050	09/13/2016	ND	2.02	101	2.00	3.31	
Ethylbenzene*	<0.050	0.050	09/13/2016	ND	1.96	98.2	2.00	3.25	
Total Xylenes*	<0.150	0.150	09/13/2016	ND	5.97	99.5	6.00	3.05	
Total BTEX	<0.300	0.300	09/13/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID *98.1 %* *73.6-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**5680**	16.0	09/14/2016	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/13/2016	ND	193	96.7	200	0.0781	
DRO >C10-C28	<10.0	10.0	09/13/2016	ND	196	97.8	200	1.72	

Surrogate: 1-Chlorooctane *81.0 %* *35-147*

Surrogate: 1-Chlorooctadecane *89.4 %* *28-171*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

STANOLIND OIL & GAS LLC
JACKIE WASHBURN
310 W. WALL STREET, STE. 1000
MIDLAND TX, 79701
Fax To: (432) 640-0099

Received:	09/13/2016	Sampling Date:	09/13/2016
Reported:	09/14/2016	Sampling Type:	Soil
Project Name:	S F P R R #26	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: NORTH WEST @ 1' (H602043-04)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2016	ND	2.06	103	2.00	4.53	
Toluene*	<0.050	0.050	09/13/2016	ND	2.02	101	2.00	3.31	
Ethylbenzene*	<0.050	0.050	09/13/2016	ND	1.96	98.2	2.00	3.25	
Total Xylenes*	<0.150	0.150	09/13/2016	ND	5.97	99.5	6.00	3.05	
Total BTEX	<0.300	0.300	09/13/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.4 %* *73.6-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**2040**	16.0	09/14/2016	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/13/2016	ND	193	96.7	200	0.0781	
DRO >C10-C28	<10.0	10.0	09/13/2016	ND	196	97.8	200	1.72	

Surrogate: 1-Chlorooctane *88.0 %* *35-147*

Surrogate: 1-Chlorooctadecane *84.8 %* *28-171*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

STANOLIND OIL & GAS LLC
JACKIE WASHBURN
310 W. WALL STREET, STE. 1000
MIDLAND TX, 79701
Fax To: (432) 640-0099

Received:	09/13/2016	Sampling Date:	09/13/2016
Reported:	09/14/2016	Sampling Type:	Soil
Project Name:	S F P R R #26	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: NORTH WEST @ 2' (H602043-05)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2016	ND	2.06	103	2.00	4.53	
Toluene*	<0.050	0.050	09/13/2016	ND	2.02	101	2.00	3.31	
Ethylbenzene*	<0.050	0.050	09/13/2016	ND	1.96	98.2	2.00	3.25	
Total Xylenes*	<0.150	0.150	09/13/2016	ND	5.97	99.5	6.00	3.05	
Total BTEX	<0.300	0.300	09/13/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.6 %* *73.6-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**2360**	16.0	09/14/2016	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/13/2016	ND	193	96.7	200	0.0781	
DRO >C10-C28	<10.0	10.0	09/13/2016	ND	196	97.8	200	1.72	

Surrogate: 1-Chlorooctane *87.6 %* *35-147*

Surrogate: 1-Chlorooctadecane *77.8 %* *28-171*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

STANOLIND OIL & GAS LLC
JACKIE WASHBURN
310 W. WALL STREET, STE. 1000
MIDLAND TX, 79701
Fax To: (432) 640-0099

Received:	09/13/2016	Sampling Date:	09/13/2016
Reported:	09/14/2016	Sampling Type:	Soil
Project Name:	S F P R R #26	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: NORTH WEST @ 3' (H602043-06)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2016	ND	2.06	103	2.00	4.53	
Toluene*	<0.050	0.050	09/13/2016	ND	2.02	101	2.00	3.31	
Ethylbenzene*	<0.050	0.050	09/13/2016	ND	1.96	98.2	2.00	3.25	
Total Xylenes*	<0.150	0.150	09/13/2016	ND	5.97	99.5	6.00	3.05	
Total BTEX	<0.300	0.300	09/13/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID *97.3 %* *73.6-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**2880**	16.0	09/14/2016	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/13/2016	ND	193	96.7	200	0.0781	
DRO >C10-C28	<10.0	10.0	09/13/2016	ND	196	97.8	200	1.72	

Surrogate: 1-Chlorooctane *85.0 %* *35-147*

Surrogate: 1-Chlorooctadecane *93.7 %* *28-171*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

STANOLIND OIL & GAS LLC
JACKIE WASHBURN
310 W. WALL STREET, STE. 1000
MIDLAND TX, 79701
Fax To: (432) 640-0099

Received:	09/13/2016	Sampling Date:	09/13/2016
Reported:	09/14/2016	Sampling Type:	Soil
Project Name:	S F P R R #26	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SOUTH EAST @ 1' (H602043-07)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2016	ND	2.06	103	2.00	4.53	
Toluene*	<0.050	0.050	09/13/2016	ND	2.02	101	2.00	3.31	
Ethylbenzene*	<0.050	0.050	09/13/2016	ND	1.96	98.2	2.00	3.25	
Total Xylenes*	<0.150	0.150	09/13/2016	ND	5.97	99.5	6.00	3.05	
Total BTEX	<0.300	0.300	09/13/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.9 %* *73.6-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**112**	16.0	09/14/2016	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/13/2016	ND	193	96.7	200	0.0781	
DRO >C10-C28	<10.0	10.0	09/13/2016	ND	196	97.8	200	1.72	

Surrogate: 1-Chlorooctane *86.4 %* *35-147*

Surrogate: 1-Chlorooctadecane *88.6 %* *28-171*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

STANOLIND OIL & GAS LLC
JACKIE WASHBURN
310 W. WALL STREET, STE. 1000
MIDLAND TX, 79701
Fax To: (432) 640-0099

Received:	09/13/2016	Sampling Date:	09/13/2016
Reported:	09/14/2016	Sampling Type:	Soil
Project Name:	S F P R R #26	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SOUTH EAST @ 2' (H602043-08)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/14/2016	ND	2.06	103	2.00	4.53	
Toluene*	<0.050	0.050	09/14/2016	ND	2.02	101	2.00	3.31	
Ethylbenzene*	<0.050	0.050	09/14/2016	ND	1.96	98.2	2.00	3.25	
Total Xylenes*	<0.150	0.150	09/14/2016	ND	5.97	99.5	6.00	3.05	
Total BTEX	<0.300	0.300	09/14/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID *98.4 %* *73.6-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	09/14/2016	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/13/2016	ND	193	96.7	200	0.0781	
DRO >C10-C28	<10.0	10.0	09/13/2016	ND	196	97.8	200	1.72	

Surrogate: 1-Chlorooctane *76.5 %* *35-147*

Surrogate: 1-Chlorooctadecane *89.0 %* *28-171*

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Analytical Results For:

STANOLIND OIL & GAS LLC
JACKIE WASHBURN
310 W. WALL STREET, STE. 1000
MIDLAND TX, 79701
Fax To: (432) 640-0099

Received:	09/13/2016	Sampling Date:	09/13/2016
Reported:	09/14/2016	Sampling Type:	Soil
Project Name:	S F P R R #26	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SOUTH EAST @ 3' (H602043-09)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/14/2016	ND	2.06	103	2.00	4.53	
Toluene*	<0.050	0.050	09/14/2016	ND	2.02	101	2.00	3.31	
Ethylbenzene*	<0.050	0.050	09/14/2016	ND	1.96	98.2	2.00	3.25	
Total Xylenes*	<0.150	0.150	09/14/2016	ND	5.97	99.5	6.00	3.05	
Total BTEX	<0.300	0.300	09/14/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID *97.3 %* *73.6-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**128**	16.0	09/14/2016	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/13/2016	ND	193	96.7	200	0.0781	
DRO >C10-C28	<10.0	10.0	09/13/2016	ND	196	97.8	200	1.72	

Surrogate: 1-Chlorooctane *73.8 %* *35-147*

Surrogate: 1-Chlorooctadecane *84.3 %* *28-171*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

STANOLIND OIL & GAS LLC
JACKIE WASHBURN
310 W. WALL STREET, STE. 1000
MIDLAND TX, 79701
Fax To: (432) 640-0099

Received:	09/13/2016	Sampling Date:	09/13/2016
Reported:	09/14/2016	Sampling Type:	Soil
Project Name:	S F P R R #26	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SOUTH WEST @ 1' (H602043-10)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/14/2016	ND	2.06	103	2.00	4.53	
Toluene*	<0.050	0.050	09/14/2016	ND	2.02	101	2.00	3.31	
Ethylbenzene*	<0.050	0.050	09/14/2016	ND	1.96	98.2	2.00	3.25	
Total Xylenes*	<0.150	0.150	09/14/2016	ND	5.97	99.5	6.00	3.05	
Total BTEX	<0.300	0.300	09/14/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID *98.3 %* *73.6-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**240**	16.0	09/14/2016	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/13/2016	ND	193	96.7	200	0.0781	
DRO >C10-C28	<10.0	10.0	09/13/2016	ND	196	97.8	200	1.72	

Surrogate: 1-Chlorooctane *76.5 %* *35-147*

Surrogate: 1-Chlorooctadecane *90.3 %* *28-171*

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Analytical Results For:

STANOLIND OIL & GAS LLC
JACKIE WASHBURN
310 W. WALL STREET, STE. 1000
MIDLAND TX, 79701
Fax To: (432) 640-0099

Received:	09/13/2016	Sampling Date:	09/13/2016
Reported:	09/14/2016	Sampling Type:	Soil
Project Name:	S F P R R #26	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SOUTH WEST @ 2' (H602043-11)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/14/2016	ND	2.06	103	2.00	4.53	
Toluene*	<0.050	0.050	09/14/2016	ND	2.02	101	2.00	3.31	
Ethylbenzene*	<0.050	0.050	09/14/2016	ND	1.96	98.2	2.00	3.25	
Total Xylenes*	<0.150	0.150	09/14/2016	ND	5.97	99.5	6.00	3.05	
Total BTEX	<0.300	0.300	09/14/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID *98.7 %* *73.6-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**240**	16.0	09/14/2016	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/13/2016	ND	193	96.7	200	0.0781	
DRO >C10-C28	<10.0	10.0	09/13/2016	ND	196	97.8	200	1.72	

Surrogate: 1-Chlorooctane *62.9 %* *35-147*

Surrogate: 1-Chlorooctadecane *75.7 %* *28-171*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

STANOLIND OIL & GAS LLC
JACKIE WASHBURN
310 W. WALL STREET, STE. 1000
MIDLAND TX, 79701
Fax To: (432) 640-0099

Received:	09/13/2016	Sampling Date:	09/13/2016
Reported:	09/14/2016	Sampling Type:	Soil
Project Name:	S F P R R #26	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SOUTH WEST @ 3' (H602043-12)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/14/2016	ND	2.06	103	2.00	4.53	
Toluene*	<0.050	0.050	09/14/2016	ND	2.02	101	2.00	3.31	
Ethylbenzene*	<0.050	0.050	09/14/2016	ND	1.96	98.2	2.00	3.25	
Total Xylenes*	<0.150	0.150	09/14/2016	ND	5.97	99.5	6.00	3.05	
Total BTEX	<0.300	0.300	09/14/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID *98.4 %* *73.6-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**352**	16.0	09/14/2016	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/13/2016	ND	193	96.7	200	0.0781	
DRO >C10-C28	<10.0	10.0	09/13/2016	ND	196	97.8	200	1.72	

Surrogate: 1-Chlorooctane *72.2 %* *35-147*

Surrogate: 1-Chlorooctadecane *84.1 %* *28-171*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

STANOLIND OIL & GAS LLC
JACKIE WASHBURN
310 W. WALL STREET, STE. 1000
MIDLAND TX, 79701
Fax To: (432) 640-0099

Received:	09/13/2016	Sampling Date:	09/13/2016
Reported:	09/14/2016	Sampling Type:	Soil
Project Name:	S F P R R #26	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: MIDDLE @ 1' (H602043-13)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/14/2016	ND	2.06	103	2.00	4.53	
Toluene*	<0.050	0.050	09/14/2016	ND	2.02	101	2.00	3.31	
Ethylbenzene*	<0.050	0.050	09/14/2016	ND	1.96	98.2	2.00	3.25	
Total Xylenes*	<0.150	0.150	09/14/2016	ND	5.97	99.5	6.00	3.05	
Total BTEX	<0.300	0.300	09/14/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID *97.8 %* *73.6-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**624**	16.0	09/14/2016	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/13/2016	ND	193	96.7	200	0.0781	
DRO >C10-C28	<10.0	10.0	09/13/2016	ND	196	97.8	200	1.72	

Surrogate: 1-Chlorooctane *82.6 %* *35-147*

Surrogate: 1-Chlorooctadecane *94.7 %* *28-171*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

STANOLIND OIL & GAS LLC
JACKIE WASHBURN
310 W. WALL STREET, STE. 1000
MIDLAND TX, 79701
Fax To: (432) 640-0099

Received:	09/13/2016	Sampling Date:	09/13/2016
Reported:	09/14/2016	Sampling Type:	Soil
Project Name:	S F P R R #26	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: MIDDLE @ 2' (H602043-14)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/14/2016	ND	2.06	103	2.00	4.53	
Toluene*	<0.050	0.050	09/14/2016	ND	2.02	101	2.00	3.31	
Ethylbenzene*	<0.050	0.050	09/14/2016	ND	1.96	98.2	2.00	3.25	
Total Xylenes*	<0.150	0.150	09/14/2016	ND	5.97	99.5	6.00	3.05	
Total BTEX	<0.300	0.300	09/14/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.2 %* *73.6-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**640**	16.0	09/14/2016	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/13/2016	ND	193	96.7	200	0.0781	
DRO >C10-C28	<10.0	10.0	09/13/2016	ND	196	97.8	200	1.72	

Surrogate: 1-Chlorooctane *84.6 %* *35-147*

Surrogate: 1-Chlorooctadecane *96.4 %* *28-171*

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CARDINAL Laboratories

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Analytical Results For:

STANOLIND OIL & GAS LLC
JACKIE WASHBURN
310 W. WALL STREET, STE. 1000
MIDLAND TX, 79701
Fax To: (432) 640-0099

Received:	09/13/2016	Sampling Date:	09/13/2016
Reported:	09/14/2016	Sampling Type:	Soil
Project Name:	S F P R R #26	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: MIDDLE @ 3' (H602043-15)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/14/2016	ND	2.06	103	2.00	4.53	
Toluene*	<0.050	0.050	09/14/2016	ND	2.02	101	2.00	3.31	
Ethylbenzene*	<0.050	0.050	09/14/2016	ND	1.96	98.2	2.00	3.25	
Total Xylenes*	<0.150	0.150	09/14/2016	ND	5.97	99.5	6.00	3.05	
Total BTEX	<0.300	0.300	09/14/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.8 %* *73.6-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**736**	16.0	09/14/2016	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/13/2016	ND	193	96.7	200	0.0781	
DRO >C10-C28	<10.0	10.0	09/13/2016	ND	196	97.8	200	1.72	

Surrogate: 1-Chlorooctane *83.6 %* *35-147*

Surrogate: 1-Chlorooctadecane *89.9 %* *28-171*

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	Stanolind Oil & Gas	**BILL TO**	
Project Manager:	Jackie Washburn	P.O. #:	
Address:	310 W. Wall St Suite 1000	Company:	
City:	Midland State: TX Zip: 79702	Attn:	
Phone #:	Fax #:	Address:	
Project #:	Project Owner:	City:	
Project Name:	SFPRR #26	State: Zip:	
Project Location:	Lea County, NM	Phone #:	
Sampler Name:	Jackie Washburn	Fax #:	

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING DATE	TIME	CL	TPH	BTEX
H602043																	
1	NE 1'	G	1			✓							9/13/16	9:00	✓	✓	✓
2	NE 2'		1											9:00			
3	NE 3'		1											9:05			
4	NW 1'		1											9:15			
5	NW 2'		1											9:15			
6	NW 3'		1											9:15			
7	SE 1'		1											9:05			
8	SE 2'		1											9:10			
9	SE 3'		1											9:10			
10	SW 1'		1											9:20			

Relinquished By: Jackie Washburn	Date: 9/13/16 Time: 1:25	Received By: Jodi Henson	Phone Result: ☐ Yes ☐ No Add'l Phone #:
Relinquished By:	Date: Time:	Received By:	Fax Result: ☐ Yes ☐ No Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other: 4.2°C	Sample Condition Cool: ☐ Yes ☐ No Intact: ☐ Yes ☐ No	CHECKED BY: (Initials)	REMARKS: RUSH!!

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

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:		**BILL TO**	
Project Manager:		P.O. #:	
Address:		Company:	
City:	State: Zip:	Attn:	
Phone #:	Fax #:	Address:	
Project #:	Project Owner:	City:	
Project Name:		State: Zip:	
Project Location:		Phone #:	
Sampler Name:		Fax #:	

FOR LAB USE ONLY				MATRIX						PRESERV.			SAMPLING		ANALYSIS REQUEST		
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	Cl	TPH	BTEX
11	SW 2'	G	1			✓							9/13/16	9:20	✓	✓	✓
12	SW 3'		1											9:20			
13	M 1'		1											9:25			
14	M 2'		1											9:25			
15	M 3'		1											9:25			

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: Jackie Washburn	Date: 9/13/16 Time: 11:25	Received By: Jodi Henson	Phone Result: ☐ Yes ☐ No Add'l Phone #:
Relinquished By:	Date: Time:	Received By:	Fax Result: ☐ Yes ☐ No Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other: 4.2°C	Sample Condition Cool: ☑ Yes ☐ No Intact: ☑ Yes ☐ No	CHECKED BY: (Initials)	REMARKS: RUSH!!

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

#75

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

PBELAB

Analytical Report

Prepared for:

Tim McMinn

E Tech Environmental & Safety Solutions, Inc.

13000 West County Road 100

Odessa, TX 79765

Project: SFPRR LEASE FIRE

Project Number: 584-7504-000

Location: Tatum , NM

Lab Order Number: 6L19002

NELAP ACCREDITED TNI LABORATORY

NELAP/TCEQ # T104704156-13-3

Report Date: 12/22/16

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

Project: SFPRR LEASE FIRE
Project Number: 584-7504-000
Project Manager: Tim McMinn

Fax: (432) 563-2213

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
NE a 15'	6L19002-01	Soil	12/15/16 09:35	12-19-2016 10:00
NE a 17'	6L19002-02	Soil	12/15/16 09:40	12-19-2016 10:00
NW a 10'	6L19002-03	Soil	12/15/16 10:30	12-19-2016 10:00
NW a 12'	6L19002-04	Soil	12/15/16 10:35	12-19-2016 10:00
N2 8'	6L19002-05	Soil	12/15/16 12:25	12-19-2016 10:00
N2 10'	6L19002-06	Soil	12/15/16 12:30	12-19-2016 10:00
N2 12'	6L19002-07	Soil	12/15/16 12:35	12-19-2016 10:00
Middle a 28'	6L19002-08	Soil	12/15/16 14:35	12-19-2016 10:00
Middle a 30'	6L19002-09	Soil	12/15/16 14:40	12-19-2016 10:00

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

Project: SFPRR LEASE FIRE
Project Number: 584-7504-000
Project Manager: Tim McMinn

Fax: (432) 563-2213

NE a 15'

6L19002-01 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**83.7**	1.04	mg/kg dry	1	P6L1903	12/19/16	12/20/16	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P6L2001	12/20/16	12/20/16	% calculation	

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

Project: SFPRR LEASE FIRE
Project Number: 584-7504-000
Project Manager: Tim McMinn

Fax: (432) 563-2213

NE a 17'

6L19002-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**41.0**	1.14	mg/kg dry	1	P6L1903	12/19/16	12/20/16	EPA 300.0	
% Moisture	**12.0**	0.1	%	1	P6L2001	12/20/16	12/20/16	% calculation	

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

Project: SFPRR LEASE FIRE
Project Number: 584-7504-000
Project Manager: Tim McMinn

Fax: (432) 563-2213

NW a 10'

6L19002-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**83.3**	1.16	mg/kg dry	1	P6L1903	12/19/16	12/20/16	EPA 300.0	
% Moisture	**14.0**	0.1	%	1	P6L2001	12/20/16	12/20/16	% calculation	

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

Project: SFPRR LEASE FIRE
Project Number: 584-7504-000
Project Manager: Tim McMinn

Fax: (432) 563-2213

NW a 12'

6L19002-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**228**	1.16	mg/kg dry	1	P6L1903	12/19/16	12/20/16	EPA 300.0	
% Moisture	**14.0**	0.1	%	1	P6L2001	12/20/16	12/20/16	% calculation	

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

Project: SFPRR LEASE FIRE
Project Number: 584-7504-000
Project Manager: Tim McMinn

Fax: (432) 563-2213

N2 8'

6L19002-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	**521**	1.06	mg/kg dry	1	P6L1903	12/19/16	12/20/16	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P6L2001	12/20/16	12/20/16	% calculation	

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

Project: SFPRR LEASE FIRE
Project Number: 584-7504-000
Project Manager: Tim McMinn

Fax: (432) 563-2213

N2 10'

6L19002-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**969**	1.09	mg/kg dry	1	P6L1903	12/19/16	12/20/16	EPA 300.0	
% Moisture	**8.0**	0.1	%	1	P6L2001	12/20/16	12/20/16	% calculation	

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

Project: SFPRR LEASE FIRE
Project Number: 584-7504-000
Project Manager: Tim McMinn

Fax: (432) 563-2213

N2 12'

6L19002-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**249**	1.15	mg/kg dry	1	P6L1903	12/19/16	12/20/16	EPA 300.0	
% Moisture	**13.0**	0.1	%	1	P6L2001	12/20/16	12/20/16	% calculation	

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

Project: SFPRR LEASE FIRE
Project Number: 584-7504-000
Project Manager: Tim McMinn

Fax: (432) 563-2213

Middle a 28'

6L19002-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**296**	1.06	mg/kg dry	1	P6L1904	12/19/16	12/20/16	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P6L2001	12/20/16	12/20/16	% calculation	

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

Project: SFPRR LEASE FIRE
Project Number: 584-7504-000
Project Manager: Tim McMinn

Fax: (432) 563-2213

Middle a 30'

6L19002-09 (Soil)

Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chloride	**198**	1.09	mg/kg dry	1	P6L1904	12/19/16	12/20/16	EPA 300.0	
% Moisture	**8.0**	0.1	%	1	P6L2001	12/20/16	12/20/16	% calculation	

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

Project: SFPRR LEASE FIRE
Project Number: 584-7504-000
Project Manager: Tim McMinn

Fax: (432) 563-2213

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 P6L1903 - * DEFAULT PREP *** **										
Blank (P6L1903-BLK1)				Prepared: 12/19/16 Analyzed: 12/20/16						
Chloride	ND	1.00	mg/kg wet							
LCS (P6L1903-BS1)				Prepared: 12/19/16 Analyzed: 12/20/16						
Chloride	379	1.00	mg/kg wet	400		94.9	80-120			
LCS Dup (P6L1903-BSD1)				Prepared: 12/19/16 Analyzed: 12/20/16						
Chloride	382	1.00	mg/kg wet	400		95.5	80-120	0.620	20	
Duplicate (P6L1903-DUP1)		**Source: 6L16006-23**		Prepared: 12/19/16 Analyzed: 12/20/16						
Chloride	282	5.88	mg/kg dry		261			7.78	20	
Duplicate (P6L1903-DUP2)		**Source: 6L16006-35**		Prepared: 12/19/16 Analyzed: 12/20/16						
Chloride	412	1.16	mg/kg dry		418			1.52	20	
Matrix Spike (P6L1903-MS1)		**Source: 6L16006-23**		Prepared: 12/19/16 Analyzed: 12/20/16						
Chloride	1800	5.88	mg/kg dry	1410	261	109	80-120			
Batch P6L1904 - * DEFAULT PREP *** **										
Blank (P6L1904-BLK1)				Prepared: 12/19/16 Analyzed: 12/20/16						
Chloride	ND	1.00	mg/kg wet							
LCS (P6L1904-BS1)				Prepared: 12/19/16 Analyzed: 12/20/16						
Chloride	384	1.00	mg/kg wet	400		96.1	80-120			
LCS Dup (P6L1904-BSD1)				Prepared: 12/19/16 Analyzed: 12/20/16						
Chloride	390	1.00	mg/kg wet	400		97.5	80-120	1.45	20	

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

Project: SFPRR LEASE FIRE
Project Number: 584-7504-000
Project Manager: Tim McMinn

Fax: (432) 563-2213

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 P6L1904 - * DEFAULT PREP *** **										
Duplicate (P6L1904-DUP1)		**Source: 6L19002-08**		Prepared: 12/19/16 Analyzed: 12/20/16						
Chloride	280	1.06	mg/kg dry		296			5.52	20	
Duplicate (P6L1904-DUP2)		**Source: 6L19010-03**		Prepared: 12/19/16 Analyzed: 12/20/16						
Chloride	533	1.05	mg/kg dry		527			1.15	20	
Matrix Spike (P6L1904-MS1)		**Source: 6L19002-08**		Prepared: 12/19/16 Analyzed: 12/20/16						
Chloride	1250	1.06	mg/kg dry	1060	296	89.6	80-120			
Batch P6L2001 - * DEFAULT PREP *** **										
Blank (P6L2001-BLK1)				Prepared & Analyzed: 12/20/16						
% Moisture	ND	0.1	%							
Duplicate (P6L2001-DUP1)		**Source: 6L19005-02**		Prepared & Analyzed: 12/20/16						
% Moisture	4.0	0.1	%		4.0			0.00	20	

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

Project: SFPRR LEASE FIRE
Project Number: 584-7504-000
Project Manager: Tim McMinn

Fax: (432) 563-2213

Notes and Definitions

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: Brent Barron Date: 12/22/2016

Brent Barron, Laboratory Director/Technical Director

Etech Environmental & Safety Solutions, Inc.

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12800 W. Hwy 80 E
Odessa, Texas 79765

Phone: 432-563-2200
Fax: 432-563-2213

Project Manager: Tim McMinn

Company Name: Etech Environmental & Safety Solutions, Inc.

Company Address: PO Box 8469

City/State/Zip: Midland, Texas 79708

Telephone No: 432-563-2200 Fax No: 432-563-2213

Sampler Signature: Jeff Lakins e-mail: Tim@etechenv.com

Project Name: SFPRR LEASE FIRE

Project #: 584-7504-000

Project Loc: Tatum, NM

PO #:

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

(lab use only) ORDER #: 601902

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservation & # of Containers: Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge	GW = Groundwater S=Soil/Solid	NP=Non-Potable Specify Other	Analyze For: TCLP: TPH: 418.1 8015M 1005 1006	TOTAL: TPH: 418.1 8015M 1005 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, CO3, HCO3)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides				RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
1	NE a 15'	12.15.16	0935		☒																						☒				☒
2	NE a 17'		0940		☒																						☒				☒
3	NW a 10'		1030		☒																						☒				☒
4	NW a 12'		1035		☒																						☒				☒
5	N2 8'		1225		☒																						☒				☒
6	N2 10'		1230		☒																						☒				☒
7	N2 12'		1235		☒																						☒				☒
8	MIDDLE a 28'		1435		☒																						☒				☒
9	MIDDLE a 30'	↓	1440		☒																						☒				☒
					☐																										

Special Instructions: RUN N2 12' ONLY IF N2 8' IS > 250 mg/kg AND N2 10' IS < 250 mg/kg

Relinquished by:	Date	Time	Received by:	Date	Time
Jeff Lakins	12/19/16	9:40			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT:	Date 12/19/16	Time 9:40

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered by Sampler/Client Rep. ?	Y	N

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt: 2.0 °C

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

PBELAB

Analytical Report

Prepared for:

Tim McMinn

E Tech Environmental & Safety Solutions, Inc.

13000 West County Road 100

Odessa, TX 79765

Project: SFPRR LEASE FIRE

Project Number: 584-7504-000

Location: Tatum NM

Lab Order Number: 7A06003

NELAP ACCREDITED TNI LABORATORY

NELAP/TCEQ # T104704156-13-3

Report Date: 01/10/17

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

Project: SFPRR LEASE FIRE
Project Number: 584-7504-000
Project Manager: Tim McMinn

Fax: (432) 563-2213

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N1 8'	7A06003-01	Soil	12/15/16 13:10	01-06-2017 11:45

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

Project: SFPRR LEASE FIRE
Project Number: 584-7504-000
Project Manager: Tim McMinn

Fax: (432) 563-2213

N1 8'

7A06003-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**223**	1.06	mg/kg dry	1	P7A0601	01/06/17	01/09/17	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P7A0904	01/09/17	01/09/17	% calculation	

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

Project: SFPRR LEASE FIRE
Project Number: 584-7504-000
Project Manager: Tim McMinn

Fax: (432) 563-2213

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 P7A0601 - * DEFAULT PREP *** **										
Blank (P7A0601-BLK1)				Prepared: 01/06/17 Analyzed: 01/09/17						
Chloride	ND	1.00	mg/kg wet							
LCS (P7A0601-BS1)				Prepared: 01/06/17 Analyzed: 01/09/17						
Chloride	442	1.00	mg/kg wet	400		111	80-120			
LCS Dup (P7A0601-BSD1)				Prepared: 01/06/17 Analyzed: 01/09/17						
Chloride	415	1.00	mg/kg wet	400		104	80-120	6.43	20	
Duplicate (P7A0601-DUP1)		**Source: 7A06001-01**		Prepared: 01/06/17 Analyzed: 01/09/17						
Chloride	53.1	1.18	mg/kg dry		53.6			0.971	20	
Duplicate (P7A0601-DUP2)		**Source: 7A06002-06**		Prepared: 01/06/17 Analyzed: 01/09/17						
Chloride	10900	55.6	mg/kg dry		10500			3.83	20	
Matrix Spike (P7A0601-MS1)		**Source: 7A06001-01**		Prepared: 01/06/17 Analyzed: 01/09/17						
Chloride	1200	1.18	mg/kg dry	1180	53.6	97.1	80-120			
Batch P7A0904 - * DEFAULT PREP *** **										
Blank (P7A0904-BLK1)				Prepared & Analyzed: 01/09/17						
% Moisture	ND	0.1	%							
Duplicate (P7A0904-DUP1)		**Source: 7A06002-06**		Prepared & Analyzed: 01/09/17						
% Moisture	11.0	0.1	%		10.0			9.52	20	
Duplicate (P7A0904-DUP2)		**Source: 7A09001-01**		Prepared & Analyzed: 01/09/17						
% Moisture	2.0	0.1	%		1.0			66.7	20	

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

Project: SFPRR LEASE FIRE
Project Number: 584-7504-000
Project Manager: Tim McMinn

Fax: (432) 563-2213

Notes and Definitions

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: Brent Barron Date: 1/10/2017

Brent Barron, Laboratory Director/Technical Director

CH

Etech Environmental & Safety Solutions, Inc.

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12800 W. Hwy 80 E
Odessa, Texas 79765

Phone: 432-563-2200
Fax: 432-563-2213

Project Manager: Tim McMinn

Company Name: Etech Environmental & Safety Solutions, Inc.

Company Address: PO Box 8469

City/State/Zip: Midland, Texas 79708

Telephone No: 432-563-2200 Fax No: 432-563-2213

Sampler Signature: Heath Lakins e-mail: Tim@etechenv.com

Project Name: SFPRR LEASE FIRE

Project #: 584-7504-000

Project Loc: Tatum, NM

PO #:

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

(lab use only)
ORDER #: 1A0603

LAB # (lab use only)	FIELD CODE			Date Sampled	Time Sampled	No. of Containers	Preservation & # of Containers: Ice	HNO3	HCl	H2SO4	NaOH	Na2S2O3	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Analyze For: TCLP: TPH: 418.1 8015M 1005 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, CO3, HCO3)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides	TOTAL:	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
1	N1 8'			12.15.16	1310	1	☒																		☒			☒	

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
Heath Lakins	12/6/17				
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT:	12/6/17	1145

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered by Sampler/Client Rep. ?	Y	N

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt: 1.0 °C