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APPROVED
By Olivia Yu at 8:34 am, Jul 24, 2017

NMOCD approves of confirmation samples for 1RP- 4642.
Backfill and liner placement is granted.

Texland Petroleum
Lea YL State #2
Sec. 2-T17S-R37E, Lea Co., NM
Affected Surface Area – 6,110 sq. ft. / .14 acre
GPS Coordinates: N32.86800 W103.22282

OCD Case Number 1RP-4642

Texland Petroleum
Lea YL State #2
Oil & Produced Water Spill
Affected Area - 6,110 sq. ft. / .14 acre
GPS Coordinates: N32.86800
W103.22282

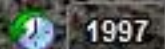


Texland Lea YL Battery



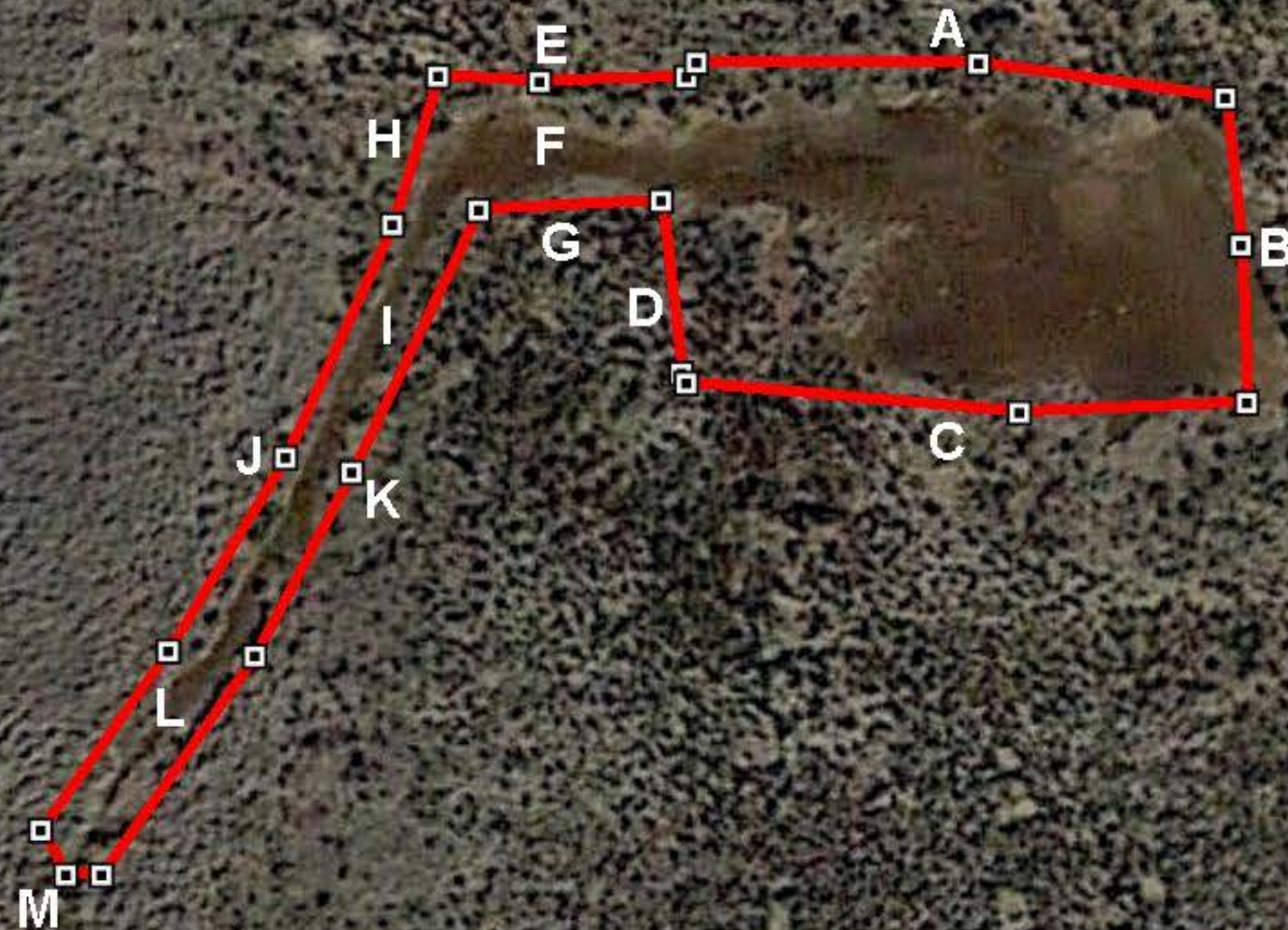
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Google Earth



Imagery Date: 11/22/2016 lat 32.868138° lon -103.223927° elev 3765 ft eye alt 4360 ft

GPS Track and Confirmation Soil Sample Locations After Excavation



Google Earth

**Texland Petroleum
Lea 'YL' State #2
OCD Case Number 1RP-4642**

CONFIRMATION SOIL SAMPLES

Sample ID	Depth (in. or ft.)	Field or Lab Test	Benzene (mg/kg)	BTEX (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)	GPS Coordinates
Sample 2A	Sidewall	Lab			<25.0	<25.0	N32.868078 W103.222830
Sample 2B	Sidewall	Lab			<25.0	<25.0	N32.867989 W103.222683
Sample 2C	Sidewall	Lab			<25.0	<25.0	N32.867919 W103.222852
Sample 2D	Sidewall	Lab			<25.0	<25.0	N32.867975 W103.222989
Sample 2E	Sidewall	Lab			<25.0	<25.0	N32.868068 W103.223062
2F - Bottom	54 in.	Lab			880	31.9	N32.868032 W103.223057
Sample 2G	Sidewall	Lab			<25.0	<25.0	N32.868002 W103.223054
Sample 2H	Sidewall	Lab			<25.0	<25.0	N32.868032 W103.223132
2I - Bottom	26 in.	Lab			450	<25.0	N32.867951 W103.223145
Sample 2J	Sidewall	Lab			<25.0	<25.0	N32.867876 W103.223222
Sample 2K	Sidewall	Lab			<25.0	<25.0	N32.867860 W103.223168
2L - Bottom	24 in.	Lab			890	<25.0	N32.867784 W103.223254
Sample 2M	Sidewall	Lab			<25.0	<25.0	N32.867707 W103.223321



06 14 2017



06 14 2017



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06/14/2017



06/14/2017



06/14/2017



Certificate of Analysis Summary 555530

BCC, Inc.-Lubbock, Lubbock, TX

Project Name: Texland Petroleum

Project Id:

Contact: Paul Porter

Project Location: Lea YL State #2 (NM)

Date Received in Lab: Fri Jun-16-17 10:45 am

Report Date: 05-JUL-17

Project Manager: Liz Givens

<i>Analysis Requested</i>	<i>Lab Id:</i>	555530-001	555530-002	555530-003	555530-004	555530-005	555530-006
	<i>Field Id:</i>	Sample 2A	Sample 2B	Sample 2C	Sample 2D	Sample 2E	Sample 2F-Bottom
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Jun-14-17 11:00	Jun-14-17 11:10	Jun-14-17 11:20	Jun-14-17 11:30	Jun-14-17 11:40	Jun-14-17 11:50
Chloride by EPA 300	<i>Extracted:</i>	Jun-20-17 09:00	Jun-20-17 09:00	Jun-20-17 09:00	Jun-20-17 09:00	Jun-20-17 09:00	Jun-20-17 09:00
	<i>Analyzed:</i>	Jun-20-17 13:21	Jun-20-17 13:59	Jun-20-17 14:11	Jun-20-17 14:23	Jun-20-17 14:36	Jun-20-17 14:48
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		<25.0 25.0	<25.0 25.0	<25.0 25.0	<25.0 25.0	<25.0 25.0	31.9 25.0
DRO By SW8015B	<i>Extracted:</i>	Jun-16-17 12:00	Jun-16-17 12:00	Jun-16-17 12:00	Jun-16-17 12:00	Jun-16-17 12:00	Jun-16-17 12:00
	<i>Analyzed:</i>	Jun-16-17 18:07	Jun-16-17 20:03	Jun-16-17 20:40	Jun-16-17 21:17	Jun-16-17 21:54	Jun-16-17 22:29
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Diesel Range Organics (DRO)		<25.0 25.0	<25.0 25.0	<25.0 25.0	<25.0 25.0	<25.0 25.0	510 50.0
C28-C35 Oil Range Hydrocarbons		<25.0 25.0	<25.0 25.0	<25.0 25.0	<25.0 25.0	<25.0 25.0	280 50.0
TPH GRO by EPA 8015 Mod.	<i>Extracted:</i>	Jun-16-17 14:00	Jun-16-17 14:00	Jun-16-17 14:00	Jun-16-17 14:00	Jun-16-17 14:00	Jun-16-17 14:00
	<i>Analyzed:</i>	Jun-16-17 21:06	Jun-16-17 22:53	Jun-16-17 23:20	Jun-16-17 23:47	Jun-17-17 00:14	Jun-17-17 05:33
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
TPH-GRO		<3.94 3.94	<3.78 3.78	<3.75 3.75	<3.84 3.84	<3.86 3.86	90.5 19.6

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.
The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories.
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Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Johnny Grindstaff
Lubbock Laboratory Director



Certificate of Analysis Summary 555530

BCC, Inc.-Lubbock, Lubbock, TX

Project Name: Texland Petroleum

Project Id:

Contact: Paul Porter

Project Location: Lea YL State #2 (NM)

Date Received in Lab: Fri Jun-16-17 10:45 am

Report Date: 05-JUL-17

Project Manager: Liz Givens

Analysis Requested	Lab Id:	555530-007	555530-008	555530-009	555530-010	555530-011	555530-012
	Field Id:	Sample 2G	Sample 2H	Sample 2I-Bottom	Sample 2J	Sample 2K	Sample 2L - Bottom
	Depth:						
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Jun-14-17 12:00	Jun-14-17 12:10	Jun-14-17 12:20	Jun-14-17 12:30	Jun-14-17 12:40	Jun-14-17 12:50
Chloride by EPA 300	Extracted:	Jun-20-17 09:00	Jun-20-17 09:00	Jun-20-17 09:00	Jun-20-17 09:00	Jun-20-17 09:00	Jun-20-17 09:00
	Analyzed:	Jun-20-17 15:01	Jun-20-17 15:13	Jun-20-17 15:26	Jun-20-17 15:38	Jun-20-17 16:03	Jun-20-17 16:40
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		<25.0 25.0	<25.0 25.0	<25.0 25.0	<25.0 25.0	<25.0 25.0	<25.0 25.0
DRO By SW8015B	Extracted:	Jun-16-17 12:00	Jun-16-17 12:00	Jun-16-17 12:00	Jun-16-17 12:00	Jun-16-17 12:00	Jun-16-17 12:00
	Analyzed:	Jun-16-17 23:40	Jun-17-17 00:14	Jun-17-17 00:49	Jun-17-17 01:57	Jun-17-17 02:31	Jun-17-17 03:05
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Diesel Range Organics (DRO)		<25.0 25.0	<25.0 25.0	340 50.0	<25.0 25.0	<25.0 25.0	560 50.0
C28-C35 Oil Range Hydrocarbons		<25.0 25.0	<25.0 25.0	110 50.0	<25.0 25.0	<25.0 25.0	330 50.0
TPH GRO by EPA 8015 Mod.	Extracted:	Jun-16-17 14:00	Jun-16-17 14:00	Jun-16-17 14:00	Jun-16-17 14:00	Jun-16-17 14:00	Jun-16-17 14:00
	Analyzed:	Jun-17-17 00:40	Jun-17-17 01:06	Jun-17-17 06:00	Jun-17-17 01:33	Jun-17-17 02:00	Jun-17-17 06:27
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
TPH-GRO		<3.99 3.99	<3.88 3.88	<7.05 7.05	<3.92 3.92	<3.72 3.72	<7.69 7.69

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Johnny Grindstaff
Lubbock Laboratory Director



Certificate of Analysis Summary 555530

BCC, Inc.-Lubbock, Lubbock, TX

Project Name: Texland Petroleum

Project Id:

Contact: Paul Porter

Project Location: Lea YL State #2 (NM)

Date Received in Lab: Fri Jun-16-17 10:45 am

Report Date: 05-JUL-17

Project Manager: Liz Givens

Analysis Requested	Lab Id: Field Id: Depth: Matrix: Sampled:	555530-013 Sample 2M SOIL Jun-14-17 13:00					
Chloride by EPA 300	Extracted: Analyzed: Units/RL:	Jun-20-17 09:00 Jun-20-17 17:05 mg/kg RL					
Chloride		<25.0 25.0					
DRO By SW8015B	Extracted: Analyzed: Units/RL:	Jun-16-17 12:00 Jun-17-17 04:11 mg/kg RL					
Diesel Range Organics (DRO)		<25.0 25.0					
C28-C35 Oil Range Hydrocarbons		<25.0 25.0					
TPH GRO by EPA 8015 Mod.	Extracted: Analyzed: Units/RL:	Jun-16-17 14:00 Jun-17-17 02:26 mg/kg RL					
TPH-GRO		<3.95 3.95					

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Johnny Grindstaff
Lubbock Laboratory Director

Analytical Report 555530

**for
BCC, Inc.-Lubbock**

Project Manager: Paul Porter

Texland Petroleum

05-JUL-17

Collected By: Client



6701 Aberdeen, Suite 9 Lubbock, TX 79424

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215), Arizona (AZ0765), Florida (E871002), Louisiana (03054)
Oklahoma (9218)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400)
Xenco-San Antonio: Texas (T104704534)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)



05-JUL-17

Project Manager: **Paul Porter**

BCC, Inc.-Lubbock

3302 122nd St

P.O. Box 53427

Lubbock, TX 79453

Reference: XENCO Report No(s): **555530**

Texland Petroleum

Project Address: Lea YL State #2 (NM)

Paul Porter :

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 555530. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 555530 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Johnny Grindstaff

Lubbock Laboratory Director

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Sample Cross Reference 555530

BCC, Inc.-Lubbock, Lubbock, TX

Texland Petroleum

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Sample 2A	S	06-14-17 11:00		555530-001
Sample 2B	S	06-14-17 11:10		555530-002
Sample 2C	S	06-14-17 11:20		555530-003
Sample 2D	S	06-14-17 11:30		555530-004
Sample 2E	S	06-14-17 11:40		555530-005
Sample 2F-Bottom	S	06-14-17 11:50		555530-006
Sample 2G	S	06-14-17 12:00		555530-007
Sample 2H	S	06-14-17 12:10		555530-008
Sample 2I-Bottom	S	06-14-17 12:20		555530-009
Sample 2J	S	06-14-17 12:30		555530-010
Sample 2K	S	06-14-17 12:40		555530-011
Sample 2L - Bottom	S	06-14-17 12:50		555530-012
Sample 2M	S	06-14-17 13:00		555530-013



CASE NARRATIVE

Client Name: BCC, Inc.-Lubbock

Project Name: Texland Petroleum

Project ID:
Work Order Number(s): 555530

Report Date: 05-JUL-17
Date Received: 06/16/2017

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3019969 TPH GRO by EPA 8015 Mod.

Samples 555530-009 and 555530-012 were ran at a dilution due to excessive hydrocarbons beyond xylenes.

Batch: LBA-3020093 DRO By SW8015B

Surrogate n-Triacontane recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.

Samples affected are: 555530-001 S,555530-001 SD,555530-002,555530-003,555530-004,555530-005,555530-001,555530-007,555530-008,555530-009,555530-010,555530-011,555530-012,555530-013,555530-006.

Surrogate Tricosane recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.

Samples affected are: 555530-001 SD,555530-002,555530-005,555530-006,555530-013,555530-008,555530-009,555530-010,555530-011,555530-012,555530-001,555530-007.

Outlier/s are due to possible matrix interference.

Lab Sample ID 555530-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Diesel Range Organics (DRO) Relative Percent Difference (RPD) between matrix spike and duplicate was above quality control limits.

Samples in the analytical batch are: 555530-001, -002, -003, -004, -005, -006, -007, -008, -009, -010, -011, -012, -013



Certificate of Analytical Results 555530

BCC, Inc.-Lubbock, Lubbock, TX

Texland Petroleum

Sample Id: **Sample 2A**

Matrix: Soil

Date Received: 06.16.17 10.45

Lab Sample Id: 555530-001

Date Collected: 06.14.17 11.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: RNL

% Moisture:

Analyst: RNL

Date Prep: 06.20.17 09.00

Basis: Wet Weight

Seq Number: 3020314

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<25.0	25.0	mg/kg	06.20.17 13.21	U	1

Analytical Method: DRO By SW8015B

Prep Method: SW8015P

Tech: PGM

% Moisture:

Analyst: HJP

Date Prep: 06.16.17 12.00

Basis: Wet Weight

Seq Number: 3020093

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	<25.0	25.0	mg/kg	06.16.17 18.07	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	<25.0	25.0	mg/kg	06.16.17 18.07	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tricosane	638-67-5	155	%	65-144	06.16.17 18.07	**
n-Triacontane	638-68-6	227	%	46-152	06.16.17 18.07	**

Analytical Method: TPH GRO by EPA 8015 Mod.

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 06.16.17 14.00

Basis: Wet Weight

Seq Number: 3019969

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	<3.94	3.94	mg/kg	06.16.17 21.06	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	106	%	76-123	06.16.17 21.06	
a,a,a-Trifluorotoluene	98-08-8	116	%	69-120	06.16.17 21.06	



Certificate of Analytical Results 555530

BCC, Inc.-Lubbock, Lubbock, TX

Texland Petroleum

Sample Id: **Sample 2B**

Matrix: Soil

Date Received: 06.16.17 10.45

Lab Sample Id: 555530-002

Date Collected: 06.14.17 11.10

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: RNL

% Moisture:

Analyst: RNL

Date Prep: 06.20.17 09.00

Basis: Wet Weight

Seq Number: 3020314

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<25.0	25.0	mg/kg	06.20.17 13.59	U	1

Analytical Method: DRO By SW8015B

Prep Method: SW8015P

Tech: PGM

% Moisture:

Analyst: HJP

Date Prep: 06.16.17 12.00

Basis: Wet Weight

Seq Number: 3020093

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	<25.0	25.0	mg/kg	06.16.17 20.03	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	<25.0	25.0	mg/kg	06.16.17 20.03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tricosane	638-67-5	146	%	65-144	06.16.17 20.03	**
n-Triacontane	638-68-6	183	%	46-152	06.16.17 20.03	**

Analytical Method: TPH GRO by EPA 8015 Mod.

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 06.16.17 14.00

Basis: Wet Weight

Seq Number: 3019969

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	<3.78	3.78	mg/kg	06.16.17 22.53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	109	%	76-123	06.16.17 22.53	
a,a,a-Trifluorotoluene	98-08-8	116	%	69-120	06.16.17 22.53	



Certificate of Analytical Results 555530

BCC, Inc.-Lubbock, Lubbock, TX

Texland Petroleum

Sample Id: **Sample 2C**

Matrix: Soil

Date Received: 06.16.17 10.45

Lab Sample Id: 555530-003

Date Collected: 06.14.17 11.20

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: RNL

% Moisture:

Analyst: RNL

Date Prep: 06.20.17 09.00

Basis: Wet Weight

Seq Number: 3020314

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<25.0	25.0	mg/kg	06.20.17 14.11	U	1

Analytical Method: DRO By SW8015B

Prep Method: SW8015P

Tech: PGM

% Moisture:

Analyst: HJP

Date Prep: 06.16.17 12.00

Basis: Wet Weight

Seq Number: 3020093

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	<25.0	25.0	mg/kg	06.16.17 20.40	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	<25.0	25.0	mg/kg	06.16.17 20.40	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tricosane	638-67-5	114	%	65-144	06.16.17 20.40	
n-Triacontane	638-68-6	153	%	46-152	06.16.17 20.40	**

Analytical Method: TPH GRO by EPA 8015 Mod.

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 06.16.17 14.00

Basis: Wet Weight

Seq Number: 3019969

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	<3.75	3.75	mg/kg	06.16.17 23.20	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	106	%	76-123	06.16.17 23.20	
a,a,a-Trifluorotoluene	98-08-8	116	%	69-120	06.16.17 23.20	



Certificate of Analytical Results 555530

BCC, Inc.-Lubbock, Lubbock, TX

Texland Petroleum

Sample Id: **Sample 2D**

Matrix: Soil

Date Received: 06.16.17 10.45

Lab Sample Id: 555530-004

Date Collected: 06.14.17 11.30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: RNL

% Moisture:

Analyst: RNL

Date Prep: 06.20.17 09.00

Basis: Wet Weight

Seq Number: 3020314

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<25.0	25.0	mg/kg	06.20.17 14.23	U	1

Analytical Method: DRO By SW8015B

Prep Method: SW8015P

Tech: PGM

% Moisture:

Analyst: HJP

Date Prep: 06.16.17 12.00

Basis: Wet Weight

Seq Number: 3020093

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	<25.0	25.0	mg/kg	06.16.17 21.17	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	<25.0	25.0	mg/kg	06.16.17 21.17	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tricosane	638-67-5	139	%	65-144	06.16.17 21.17	
n-Triacontane	638-68-6	177	%	46-152	06.16.17 21.17	**

Analytical Method: TPH GRO by EPA 8015 Mod.

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 06.16.17 14.00

Basis: Wet Weight

Seq Number: 3019969

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	<3.84	3.84	mg/kg	06.16.17 23.47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	101	%	76-123	06.16.17 23.47	
a,a,a-Trifluorotoluene	98-08-8	114	%	69-120	06.16.17 23.47	



Certificate of Analytical Results 555530

BCC, Inc.-Lubbock, Lubbock, TX

Texland Petroleum

Sample Id: **Sample 2E**

Matrix: Soil

Date Received: 06.16.17 10.45

Lab Sample Id: 555530-005

Date Collected: 06.14.17 11.40

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: RNL

% Moisture:

Analyst: RNL

Date Prep: 06.20.17 09.00

Basis: Wet Weight

Seq Number: 3020314

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<25.0	25.0	mg/kg	06.20.17 14.36	U	1

Analytical Method: DRO By SW8015B

Prep Method: SW8015P

Tech: PGM

% Moisture:

Analyst: HJP

Date Prep: 06.16.17 12.00

Basis: Wet Weight

Seq Number: 3020093

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	<25.0	25.0	mg/kg	06.16.17 21.54	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	<25.0	25.0	mg/kg	06.16.17 21.54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tricosane	638-67-5	147	%	65-144	06.16.17 21.54	**
n-Triacontane	638-68-6	203	%	46-152	06.16.17 21.54	**

Analytical Method: TPH GRO by EPA 8015 Mod.

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 06.16.17 14.00

Basis: Wet Weight

Seq Number: 3019969

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	<3.86	3.86	mg/kg	06.17.17 00.14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	106	%	76-123	06.17.17 00.14	
a,a,a-Trifluorotoluene	98-08-8	114	%	69-120	06.17.17 00.14	



Certificate of Analytical Results 555530

BCC, Inc.-Lubbock, Lubbock, TX

Texland Petroleum

Sample Id: **Sample 2F-Bottom**

Matrix: Soil

Date Received: 06.16.17 10.45

Lab Sample Id: 555530-006

Date Collected: 06.14.17 11.50

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: RNL

% Moisture:

Analyst: RNL

Date Prep: 06.20.17 09.00

Basis: Wet Weight

Seq Number: 3020314

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	31.9	25.0	mg/kg	06.20.17 14.48		1

Analytical Method: DRO By SW8015B

Prep Method: SW8015P

Tech: PGM

% Moisture:

Analyst: HJP

Date Prep: 06.16.17 12.00

Basis: Wet Weight

Seq Number: 3020093

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	510	50.0	mg/kg	06.16.17 22.29		5
C28-C35 Oil Range Hydrocarbons	PHCG2835	280	50.0	mg/kg	06.16.17 22.29		5

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tricosane	638-67-5	5020	%	65-144	06.16.17 22.29	**
n-Triacontane	638-68-6	7370	%	46-152	06.16.17 22.29	**

Analytical Method: TPH GRO by EPA 8015 Mod.

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 06.16.17 14.00

Basis: Wet Weight

Seq Number: 3019969

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	90.5	19.6	mg/kg	06.17.17 05.33		5

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	121	%	76-123	06.17.17 05.33	
a,a,a-Trifluorotoluene	98-08-8	106	%	69-120	06.17.17 05.33	



Certificate of Analytical Results 555530

BCC, Inc.-Lubbock, Lubbock, TX

Texland Petroleum

Sample Id: **Sample 2G**

Matrix: Soil

Date Received: 06.16.17 10.45

Lab Sample Id: 555530-007

Date Collected: 06.14.17 12.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: RNL

% Moisture:

Analyst: RNL

Date Prep: 06.20.17 09.00

Basis: Wet Weight

Seq Number: 3020314

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<25.0	25.0	mg/kg	06.20.17 15.01	U	1

Analytical Method: DRO By SW8015B

Prep Method: SW8015P

Tech: PGM

% Moisture:

Analyst: HJP

Date Prep: 06.16.17 12.00

Basis: Wet Weight

Seq Number: 3020093

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	<25.0	25.0	mg/kg	06.16.17 23.40	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	<25.0	25.0	mg/kg	06.16.17 23.40	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tricosane	638-67-5	164	%	65-144	06.16.17 23.40	**
n-Triacontane	638-68-6	247	%	46-152	06.16.17 23.40	**

Analytical Method: TPH GRO by EPA 8015 Mod.

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 06.16.17 14.00

Basis: Wet Weight

Seq Number: 3019969

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	<3.99	3.99	mg/kg	06.17.17 00.40	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	103	%	76-123	06.17.17 00.40	
a,a,a-Trifluorotoluene	98-08-8	114	%	69-120	06.17.17 00.40	



Certificate of Analytical Results 555530

BCC, Inc.-Lubbock, Lubbock, TX

Texland Petroleum

Sample Id: **Sample 2H**

Matrix: Soil

Date Received: 06.16.17 10.45

Lab Sample Id: 555530-008

Date Collected: 06.14.17 12.10

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: RNL

% Moisture:

Analyst: RNL

Date Prep: 06.20.17 09.00

Basis: Wet Weight

Seq Number: 3020314

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<25.0	25.0	mg/kg	06.20.17 15.13	U	1

Analytical Method: DRO By SW8015B

Prep Method: SW8015P

Tech: PGM

% Moisture:

Analyst: HJP

Date Prep: 06.16.17 12.00

Basis: Wet Weight

Seq Number: 3020093

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	<25.0	25.0	mg/kg	06.17.17 00.14	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	<25.0	25.0	mg/kg	06.17.17 00.14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tricosane	638-67-5	153	%	65-144	06.17.17 00.14	**
n-Triacontane	638-68-6	200	%	46-152	06.17.17 00.14	**

Analytical Method: TPH GRO by EPA 8015 Mod.

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 06.16.17 14.00

Basis: Wet Weight

Seq Number: 3019969

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	<3.88	3.88	mg/kg	06.17.17 01.06	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	103	%	76-123	06.17.17 01.06	
a,a,a-Trifluorotoluene	98-08-8	113	%	69-120	06.17.17 01.06	



Certificate of Analytical Results 555530

BCC, Inc.-Lubbock, Lubbock, TX

Texland Petroleum

Sample Id: **Sample 2I-Bottom**

Matrix: Soil

Date Received: 06.16.17 10.45

Lab Sample Id: 555530-009

Date Collected: 06.14.17 12.20

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: RNL

% Moisture:

Analyst: RNL

Date Prep: 06.20.17 09.00

Basis: Wet Weight

Seq Number: 3020314

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<25.0	25.0	mg/kg	06.20.17 15.26	U	1

Analytical Method: DRO By SW8015B

Prep Method: SW8015P

Tech: PGM

% Moisture:

Analyst: HJP

Date Prep: 06.16.17 12.00

Basis: Wet Weight

Seq Number: 3020093

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	340	50.0	mg/kg	06.17.17 00.49		2
C28-C35 Oil Range Hydrocarbons	PHCG2835	110	50.0	mg/kg	06.17.17 00.49		2
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
Tricosane	638-67-5	3880	%	65-144	06.17.17 00.49	**	
n-Triacontane	638-68-6	5380	%	46-152	06.17.17 00.49	**	

Analytical Method: TPH GRO by EPA 8015 Mod.

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 06.16.17 14.00

Basis: Wet Weight

Seq Number: 3019969

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	<7.05	7.05	mg/kg	06.17.17 06.00	U	2
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	104	%	76-123	06.17.17 06.00		
a,a,a-Trifluorotoluene	98-08-8	105	%	69-120	06.17.17 06.00		



Certificate of Analytical Results 555530

BCC, Inc.-Lubbock, Lubbock, TX

Texland Petroleum

Sample Id: **Sample 2J**

Matrix: Soil

Date Received: 06.16.17 10.45

Lab Sample Id: 555530-010

Date Collected: 06.14.17 12.30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: RNL

% Moisture:

Analyst: RNL

Date Prep: 06.20.17 09.00

Basis: Wet Weight

Seq Number: 3020314

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<25.0	25.0	mg/kg	06.20.17 15.38	U	1

Analytical Method: DRO By SW8015B

Prep Method: SW8015P

Tech: PGM

% Moisture:

Analyst: HJP

Date Prep: 06.16.17 12.00

Basis: Wet Weight

Seq Number: 3020093

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	<25.0	25.0	mg/kg	06.17.17 01.57	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	<25.0	25.0	mg/kg	06.17.17 01.57	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tricosane	638-67-5	174	%	65-144	06.17.17 01.57	**
n-Triacontane	638-68-6	258	%	46-152	06.17.17 01.57	**

Analytical Method: TPH GRO by EPA 8015 Mod.

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 06.16.17 14.00

Basis: Wet Weight

Seq Number: 3019969

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	<3.92	3.92	mg/kg	06.17.17 01.33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	104	%	76-123	06.17.17 01.33	
a,a,a-Trifluorotoluene	98-08-8	113	%	69-120	06.17.17 01.33	



Certificate of Analytical Results 555530

BCC, Inc.-Lubbock, Lubbock, TX

Texland Petroleum

Sample Id: **Sample 2K**

Matrix: Soil

Date Received: 06.16.17 10.45

Lab Sample Id: 555530-011

Date Collected: 06.14.17 12.40

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: RNL

% Moisture:

Analyst: RNL

Date Prep: 06.20.17 09.00

Basis: Wet Weight

Seq Number: 3020314

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<25.0	25.0	mg/kg	06.20.17 16.03	U	1

Analytical Method: DRO By SW8015B

Prep Method: SW8015P

Tech: PGM

% Moisture:

Analyst: HJP

Date Prep: 06.16.17 12.00

Basis: Wet Weight

Seq Number: 3020093

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	<25.0	25.0	mg/kg	06.17.17 02.31	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	<25.0	25.0	mg/kg	06.17.17 02.31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tricosane	638-67-5	162	%	65-144	06.17.17 02.31	**
n-Triacontane	638-68-6	244	%	46-152	06.17.17 02.31	**

Analytical Method: TPH GRO by EPA 8015 Mod.

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 06.16.17 14.00

Basis: Wet Weight

Seq Number: 3019969

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	<3.72	3.72	mg/kg	06.17.17 02.00	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	104	%	76-123	06.17.17 02.00	
a,a,a-Trifluorotoluene	98-08-8	113	%	69-120	06.17.17 02.00	



Certificate of Analytical Results 555530

BCC, Inc.-Lubbock, Lubbock, TX

Texland Petroleum

Sample Id: **Sample 2L - Bottom**

Matrix: Soil

Date Received: 06.16.17 10.45

Lab Sample Id: 555530-012

Date Collected: 06.14.17 12.50

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: RNL

% Moisture:

Analyst: RNL

Date Prep: 06.20.17 09.00

Basis: Wet Weight

Seq Number: 3020314

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<25.0	25.0	mg/kg	06.20.17 16.40	U	1

Analytical Method: DRO By SW8015B

Prep Method: SW8015P

Tech: PGM

% Moisture:

Analyst: HJP

Date Prep: 06.16.17 12.00

Basis: Wet Weight

Seq Number: 3020093

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	560	50.0	mg/kg	06.17.17 03.05		5
C28-C35 Oil Range Hydrocarbons	PHCG2835	330	50.0	mg/kg	06.17.17 03.05		5

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tricosane	638-67-5	7300	%	65-144	06.17.17 03.05	**
n-Triacontane	638-68-6	12200	%	46-152	06.17.17 03.05	**

Analytical Method: TPH GRO by EPA 8015 Mod.

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 06.16.17 14.00

Basis: Wet Weight

Seq Number: 3019969

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	<7.69	7.69	mg/kg	06.17.17 06.27	U	2

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	96	%	76-123	06.17.17 06.27	
a,a,a-Trifluorotoluene	98-08-8	105	%	69-120	06.17.17 06.27	



Certificate of Analytical Results 555530

BCC, Inc.-Lubbock, Lubbock, TX

Texland Petroleum

Sample Id: **Sample 2M**

Matrix: Soil

Date Received: 06.16.17 10.45

Lab Sample Id: 555530-013

Date Collected: 06.14.17 13.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: RNL

% Moisture:

Analyst: RNL

Date Prep: 06.20.17 09.00

Basis: Wet Weight

Seq Number: 3020314

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<25.0	25.0	mg/kg	06.20.17 17.05	U	1

Analytical Method: DRO By SW8015B

Prep Method: SW8015P

Tech: PGM

% Moisture:

Analyst: HJP

Date Prep: 06.16.17 12.00

Basis: Wet Weight

Seq Number: 3020093

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	<25.0	25.0	mg/kg	06.17.17 04.11	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	<25.0	25.0	mg/kg	06.17.17 04.11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tricosane	638-67-5	148	%	65-144	06.17.17 04.11	**
n-Triacontane	638-68-6	215	%	46-152	06.17.17 04.11	**

Analytical Method: TPH GRO by EPA 8015 Mod.

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 06.16.17 14.00

Basis: Wet Weight

Seq Number: 3019969

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	<3.95	3.95	mg/kg	06.17.17 02.26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	104	%	76-123	06.17.17 02.26	
a,a,a-Trifluorotoluene	98-08-8	113	%	69-120	06.17.17 02.26	

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

****** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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(602) 437-0330	



QC Summary 555530

BCC, Inc.-Lubbock Texland Petroleum

Analytical Method: Chloride by EPA 300

Seq Number: 3020314

MB Sample Id: 726386-1-BLK

Matrix: Solid

LCS Sample Id: 726386-1-BKS

Prep Method: E300P

Date Prep: 06.20.17

LCSD Sample Id: 726386-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<25.0	250	238	95	248	99	90-110	4	20	mg/kg	06.20.17 12:57	

Analytical Method: Chloride by EPA 300

Seq Number: 3020314

Parent Sample Id: 555530-001

Matrix: Soil

MS Sample Id: 555530-001 S

Prep Method: E300P

Date Prep: 06.20.17

MSD Sample Id: 555530-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<25.0	250	260	104	258	103	80-120	1	20	mg/kg	06.20.17 13:34	

Analytical Method: Chloride by EPA 300

Seq Number: 3020314

Parent Sample Id: 555530-011

Matrix: Soil

MS Sample Id: 555530-011 S

Prep Method: E300P

Date Prep: 06.20.17

MSD Sample Id: 555530-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<25.0	250	263	105	256	102	80-120	3	20	mg/kg	06.20.17 16:15	

Analytical Method: DRO By SW8015B

Seq Number: 3020093

MB Sample Id: 726336-1-BLK

Matrix: Solid

LCS Sample Id: 726336-1-BKS

Prep Method: SW8015P

Date Prep: 06.16.17

LCSD Sample Id: 726336-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Diesel Range Organics (DRO)	<25.0	100	90.5	91	78.2	78	63-139	15	20	mg/kg	06.16.17 16:48	

Surrogate

	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
Tricosane	106		116		117		65-144	%	06.16.17 16:48
n-Triacontane	145		152		130		46-152	%	06.16.17 16:48

Analytical Method: DRO By SW8015B

Seq Number: 3020093

Parent Sample Id: 555530-001

Matrix: Soil

MS Sample Id: 555530-001 S

Prep Method: SW8015P

Date Prep: 06.16.17

MSD Sample Id: 555530-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Diesel Range Organics (DRO)	<25.0	100	66.1	66	96.7	97	63-139	38	20	mg/kg	06.16.17 18:46	F

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
Tricosane	139		164	**	65-144	%	06.16.17 18:46
n-Triacontane	220	**	229	**	46-152	%	06.16.17 18:46

BCC, Inc.-Lubbock
Texland Petroleum

Analytical Method: TPH GRO by EPA 8015 Mod.

Seq Number: 3019969

MB Sample Id: 726231-1-BLK

Matrix: Solid

LCS Sample Id: 726231-1-BKS

Prep Method: SW5030B

Date Prep: 06.16.17

LCSD Sample Id: 726231-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
TPH-GRO	<4.00	20.0	18.9	95	19.1	96	35-129	1	20	mg/kg	06.16.17 19:19	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date			
4-Bromofluorobenzene	111		119		117		76-123	%	06.16.17 19:19			
a,a,a-Trifluorotoluene	117		116		110		69-120	%	06.16.17 19:19			

Analytical Method: TPH GRO by EPA 8015 Mod.

Seq Number: 3019969

Parent Sample Id: 555530-001

Matrix: Soil

MS Sample Id: 555530-001 S

Prep Method: SW5030B

Date Prep: 06.16.17

MSD Sample Id: 555530-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
TPH-GRO	<3.95	19.8	17.4	88	17.3	93	35-129	1	20	mg/kg	06.16.17 21:33	
Surrogate			MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date			
4-Bromofluorobenzene			112		113		76-123	%	06.16.17 21:33			
a,a,a-Trifluorotoluene			98		111		69-120	%	06.16.17 21:33			

TraceAnalysis, Inc.

email: lab@traceanalysis.com

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Tel (806) 794-1296
Fax (806) 794-1298
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Midland, Texas 79703
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El Paso, Texas 79922
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443BioAquatic Testing
2501 Mayes Rd., Ste 100
Carrollton, Texas 75006
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Fax (575) 392-4508
Brandon & Clark
3403 Industrial Blvd.
Hobbs, NM 88240
Tel (575) 392-7561
Fax (575) 392-4508

Company Name:

BCC, Inc.

Address: (Street, City, Zip)

3302 122nd Lubbock, TX 79423 806.687.6926

Contact Person:

Paul Porter

Invoice to:

(If different from above) P.O. Box 53427 Lubbock TX 79453

Project #:

Project Name: Texland Petroleum

Project Location (including state):

Lea YL State #2 (NM)

Sampler Signature:

Paul Porter

Phone #:

806.771.8033

Fax #:

806.687.6926

E-mail:

bcccorp@aol.com

ANALYSIS REQUEST

(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX			PRESERVATIVE METHOD					SAMPLING	
				WATER	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	DATE	TIME
001	Sample 2A	1		✓							✓	6/14 11:00	
002	2B	1		✓							✓	6/14 11:10	
003	2C	1		✓							✓	6/14 11:20	
004	2D	1		✓							✓	6/14 11:30	
005	2E	1		✓							✓	6/14 11:40	
006	2F - Bottom	1		✓							✓	6/14 11:50	
007	2G	1		✓							✓	6/14 12:00	
008	2H	1		✓							✓	6/14 12:10	
009	2I - Bottom	1		✓							✓	6/14 12:20	
010	2J	1		✓							✓	6/14 12:30	
011	2K	1		✓							✓	6/14 12:40	
REMARKS:													
LAB USE ONLY													
Turn Around Time if different from standard													
Moisture Content													
GC/MS Vol. 8260 / 624													
GC/MS Semi. Vol. 8270 / 625													
PCB's 8082 / 608													
Pesticides 8081 / 608													
BOD, TSS, pH													
Na, Ca, Mg, K, TDS, EC													
Hold													

Relinquished by: Paul Porter	Company: BCC, Inc.	Date: 6/16/17	Time: 10:45	INST: 3	OBS: 6.0	COR: 5.9
Relinquished by: Paul Porter	Company: BCC, Inc.	Date: 6/16/17	Time: 10:45	INST: 3	OBS: 6.0	COR: 5.9
Relinquished by: Paul Porter	Company: BCC, Inc.	Date: 6/16/17	Time: 10:45	INST: 3	OBS: 6.0	COR: 5.9

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.

Revision 1, 09/15/15

ORIGINAL COPY

Carrier #

C. O. C.



XENCO Laboratories
Prelogin/Nonconformance Report- Sample Log-In

Client: BCC, Inc.-Lubbock

Date/ Time Received: 06/16/2017 10:45:00 AM

Work Order #: 555530

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR3

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	5.9
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seal present on shipping container/ cooler?	No
#5 *Custody Seals intact on shipping container/ cooler?	N/A
#6 Custody Seals intact on sample bottles?	N/A
#7 *Custody Seals Signed and dated?	N/A
#8 *Chain of Custody present?	Yes
#9 Sample instructions complete on Chain of Custody?	Yes
#10 Any missing/extra samples?	No
#11 Chain of Custody signed when relinquished/ received?	Yes
#12 Chain of Custody agrees with sample label(s)?	Yes
#13 Container label(s) legible and intact?	Yes
#14 Sample matrix/ properties agree with Chain of Custody?	Yes
#15 Samples in proper container/ bottle?	Yes
#16 Samples properly preserved?	Yes
#17 Sample container(s) intact?	Yes
#18 Sufficient sample amount for indicated test(s)?	Yes
#19 All samples received within hold time?	Yes
#20 Subcontract of sample(s)?	No
#21 VOC samples have zero headspace?	N/A

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:

PH Device/Lot#:

Checklist completed by:

Ashley Derstine

Date: 06/16/2017

Checklist reviewed by:

Holly Taylor

Date: 06/19/2017