NMOCD Accepted for Record

RECEIVEDBy Kristen Lynch at 7:52 am, Sep 21, 2016

1RP 3674

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



Analytical Report

Prepared for:

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

Project: State 20 Release
Project Number: 584-6106-000
Location: Jal, NM

Lab Order Number: 6E02003



NELAP/TCEQ # T104704156-13-3

Report Date: 05/12/16

13000 West County Road 100

Odessa TX, 79765

Project: State 20 Release

Project Number: 584-6106-000 Project Manager: Tim McMinn

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SP1	6E02003-01	Soil	04/18/16 10:00	05-02-2016 11:47
SP2	6E02003-02	Soil	04/18/16 10:03	05-02-2016 11:47
SP3	6E02003-03	Soil	04/18/16 10:06	05-02-2016 11:47
SP4	6E02003-04	Soil	04/28/16 16:15	05-02-2016 11:47
SP5	6E02003-05	Soil	04/28/16 16:17	05-02-2016 11:47
SP6	6E02003-06	Soil	04/28/16 16:19	05-02-2016 11:47
SP7	6E02003-07	Soil	04/28/16 16:21	05-02-2016 11:47
SP8	6E02003-08	Soil	04/18/16 10:21	05-02-2016 11:47
SP9	6E02003-09	Soil	04/28/16 16:25	05-02-2016 11:47
SP10	6E02003-10	Soil	04/28/16 16:27	05-02-2016 11:47
SP11	6E02003-11	Soil	04/28/16 16:30	05-02-2016 11:47
SP12	6E02003-12	Soil	04/28/16 16:33	05-02-2016 11:47
SP13	6E02003-13	Soil	04/28/16 16:36	05-02-2016 11:47
SP14	6E02003-14	Soil	04/18/16 10:39	05-02-2016 11:47

13000 West County Road 100

Odessa TX, 79765

Project: State 20 Release

Project Number: 584-6106-000 Project Manager: Tim McMinn

> SP1 6E02003-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Permi	an Basin F	Environme	ıtal Lab,	L.P.				
Organics by GC									
Benzene	ND	0.00101	mg/kg dry	1	P6E0505	05/02/16	05/02/16	EPA 8021B	
Toluene	ND	0.00202	mg/kg dry	1	P6E0505	05/02/16	05/02/16	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P6E0505	05/02/16	05/02/16	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P6E0505	05/02/16	05/02/16	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P6E0505	05/02/16	05/02/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		103 %	75-1	25	P6E0505	05/02/16	05/02/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		73.4 %	75-1	25	P6E0505	05/02/16	05/02/16	EPA 8021B	S-GC
General Chemistry Parameters by El	PA / Standard Methods								
% Moisture	1.0	0.1	%	1	P6E0205	05/02/16	05/03/16	% calculation	

E Tech Environmental & Safety Solutions, Inc.

Project: State 20 Release

13000 West County Road 100

Odessa TX, 79765 Project Manager: Tim McMinn

SP2 6E02003-02 (Soil)

Project Number: 584-6106-000

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Permi	an Basin E	Environme	ntal Lab, l	L .P.				
Organics by GC									
Benzene	ND	0.00101	mg/kg dry	1	P6E0505	05/02/16	05/02/16	EPA 8021B	
Toluene	ND	0.00202	mg/kg dry	1	P6E0505	05/02/16	05/02/16	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P6E0505	05/02/16	05/02/16	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P6E0505	05/02/16	05/02/16	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P6E0505	05/02/16	05/02/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		103 %	75-1	25	P6E0505	05/02/16	05/02/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		101 %	75-1	25	P6E0505	05/02/16	05/02/16	EPA 8021B	
General Chemistry Parameters by EP	A / Standard Methods								
% Moisture	1.0	0.1	%	1	P6E0205	05/02/16	05/03/16	% calculation	

E Tech Environmental & Safety Solutions, Inc. Project: State 20 Release

13000 West County Road 100

Project Number: 584-6106-000 Odessa TX, 79765 Project Manager: Tim McMinn

Fax: (432) 563-2213

SP3 6E02003-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin E	Environme	ntal Lab,	L.P.				
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	P6E0505	05/02/16	05/02/16	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	P6E0505	05/02/16	05/02/16	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P6E0505	05/02/16	05/02/16	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P6E0505	05/02/16	05/02/16	EPA 8021B	
Xylene (o)	0.00216	0.00100	mg/kg dry	1	P6E0505	05/02/16	05/02/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		106 %	75-1	25	P6E0505	05/02/16	05/02/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		79.2 %	75-1	25	P6E0505	05/02/16	05/02/16	EPA 8021B	
General Chemistry Parameters by I	EPA / Standard Method	ls							
% Moisture	ND	0.1	%	1	P6E0205	05/02/16	05/03/16	% calculation	

13000 West County Road 100

Project Number: 584-6106-000 Odessa TX, 79765 Project Manager: Tim McMinn

Fax: (432) 563-2213

SP4 6E02003-04 (Soil)

Project: State 20 Release

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin E	Environmen	ıtal Lab, l	L .P.				
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	P6E0505	05/02/16	05/02/16	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	P6E0505	05/02/16	05/02/16	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P6E0505	05/02/16	05/02/16	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P6E0505	05/02/16	05/02/16	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P6E0505	05/02/16	05/02/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		109 %	75-1.	25	P6E0505	05/02/16	05/02/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		88.5 %	75-1.	25	P6E0505	05/02/16	05/02/16	EPA 8021B	
General Chemistry Parameters by EPA	A / Standard Method	ls							
% Moisture	ND	0.1	%	1	P6E0406	05/04/16	05/04/16	% calculation	
Total Petroleum Hydrocarbons C6-C3	5 by EPA Method 80	15M							
C6-C12	60.9	25.0	mg/kg dry	1	P6E0403	05/02/16	05/03/16	TPH 8015M	
>C12-C28	2930	25.0	mg/kg dry	1	P6E0403	05/02/16	05/03/16	TPH 8015M	
>C28-C35	281	25.0	mg/kg dry	1	P6E0403	05/02/16	05/03/16	TPH 8015M	
Surrogate: 1-Chlorooctane		131 %	70-1.	30	P6E0403	05/02/16	05/03/16	TPH 8015M	S-GC
Surrogate: o-Terphenyl		95.6 %	70-1.	30	P6E0403	05/02/16	05/03/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	3270	25.0	mg/kg dry	1	[CALC]	05/02/16	05/03/16	calc	

13000 West County Road 100 Odessa TX, 79765 Project: State 20 Release

Project Number: 584-6106-000 Project Manager: Tim McMinn

> SP5 6E02003-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	ian Basin E	Environmer	ıtal Lab, l	L .P.				
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	P6E0505	05/02/16	05/02/16	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	P6E0505	05/02/16	05/02/16	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P6E0505	05/02/16	05/02/16	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P6E0505	05/02/16	05/02/16	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P6E0505	05/02/16	05/02/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		109 %	75-1	25	P6E0505	05/02/16	05/02/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		97.0 %	75-1	25	P6E0505	05/02/16	05/02/16	EPA 8021B	
General Chemistry Parameters by EP	DA / Standard Mathad	5							
% Moisture	ND	0.1	%	1	P6E0406	05/04/16	05/04/16	% calculation	
Total Petroleum Hydrocarbons C6-C3	35 by EPA Method 80	15M							
C6-C12	44.6	25.0	mg/kg dry	1	P6E0403	05/02/16	05/03/16	TPH 8015M	
>C12-C28	2350	25.0	mg/kg dry	1	P6E0403	05/02/16	05/03/16	TPH 8015M	
>C28-C35	214	25.0	mg/kg dry	1	P6E0403	05/02/16	05/03/16	TPH 8015M	
Surrogate: 1-Chlorooctane		101 %	70-1	30	P6E0403	05/02/16	05/03/16	TPH 8015M	
Surrogate: o-Terphenyl		73.5 %	70-1	30	P6E0403	05/02/16	05/03/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	2610	25.0	mg/kg dry	1	[CALC]	05/02/16	05/03/16	calc	

13000 West County Road 100 Odessa TX, 79765 Project: State 20 Release Project Number: 584-6106-000

Project Manager: Tim McMinn

SP6 6E02003-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin E	Environmen	ıtal Lab, l	L .P.				
Organics by GC									
Benzene	ND	0.00101	mg/kg dry	1	P6E0505	05/02/16	05/02/16	EPA 8021B	
Toluene	ND	0.00202	mg/kg dry	1	P6E0505	05/02/16	05/02/16	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P6E0505	05/02/16	05/02/16	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P6E0505	05/02/16	05/02/16	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P6E0505	05/02/16	05/02/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		90.8 %	75-1	25	P6E0505	05/02/16	05/02/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		109 %	75-1	25	P6E0505	05/02/16	05/02/16	EPA 8021B	
General Chemistry Parameters by EPA	A / Standard Method	ls							
% Moisture	1.0	0.1	%	1	P6E0406	05/04/16	05/04/16	% calculation	
Total Petroleum Hydrocarbons C6-C3	5 by EPA Method 80	15M							
C6-C12	36.1	25.3	mg/kg dry	1	P6E0403	05/02/16	05/03/16	TPH 8015M	
>C12-C28	2290	25.3	mg/kg dry	1	P6E0403	05/02/16	05/03/16	TPH 8015M	
>C28-C35	198	25.3	mg/kg dry	1	P6E0403	05/02/16	05/03/16	TPH 8015M	
Surrogate: 1-Chlorooctane		102 %	70-1	30	P6E0403	05/02/16	05/03/16	TPH 8015M	
Surrogate: o-Terphenyl		83.1 %	70-1	30	P6E0403	05/02/16	05/03/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	2520	25.3	mg/kg dry	1	[CALC]	05/02/16	05/03/16	calc	

13000 West County Road 100 Odessa TX, 79765 Project: State 20 Release Project Number: 584-6106-000

Project Number: 584-6106-000 Project Manager: Tim McMinn

> SP7 6E02003-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin F	Environmer	ıtal Lab, l	L .P.				
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	P6E0505	05/02/16	05/02/16	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	P6E0505	05/02/16	05/02/16	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P6E0505	05/02/16	05/02/16	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P6E0505	05/02/16	05/02/16	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P6E0505	05/02/16	05/02/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		150 %	75-1	25	P6E0505	05/02/16	05/02/16	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene		78.9 %	75-1	25	P6E0505	05/02/16	05/02/16	EPA 8021B	
General Chemistry Parameters by EF	PA / Standard Method	ls							
% Moisture	ND	0.1	%	1	P6E0406	05/04/16	05/04/16	% calculation	
Total Petroleum Hydrocarbons C6-C3	35 by EPA Method 80	15M							
C6-C12	38.1	25.0	mg/kg dry	1	P6E0403	05/02/16	05/03/16	TPH 8015M	
>C12-C28	2470	25.0	mg/kg dry	1	P6E0403	05/02/16	05/03/16	TPH 8015M	
>C28-C35	215	25.0	mg/kg dry	1	P6E0403	05/02/16	05/03/16	TPH 8015M	
Surrogate: 1-Chlorooctane		102 %	70-1	30	P6E0403	05/02/16	05/03/16	TPH 8015M	
Surrogate: o-Terphenyl		51.4 %	70-1	30	P6E0403	05/02/16	05/03/16	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	2720	25.0	mg/kg dry	1	[CALC]	05/02/16	05/03/16	calc	

Fax: (432) 563-2213 E Tech Environmental & Safety Solutions, Inc. Project: State 20 Release

13000 West County Road 100

Project Number: 584-6106-000 Odessa TX, 79765 Project Manager: Tim McMinn

> SP8 6E02003-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Permi	an Basin E	Environme	ntal Lab, l	L.P.				
Organics by GC									
Benzene	ND	0.00101	mg/kg dry	1	P6E0505	05/02/16	05/02/16	EPA 8021B	
Toluene	ND	0.00202	mg/kg dry	1	P6E0505	05/02/16	05/02/16	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P6E0505	05/02/16	05/02/16	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P6E0505	05/02/16	05/02/16	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P6E0505	05/02/16	05/02/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		118 %	75-1	25	P6E0505	05/02/16	05/02/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		92.5 %	75-1	25	P6E0505	05/02/16	05/02/16	EPA 8021B	
General Chemistry Parameters by EP	A / Standard Methods								
% Moisture	1.0	0.1	%	1	P6E0205	05/02/16	05/03/16	% calculation	

13000 West County Road 100 Odessa TX, 79765 Project: State 20 Release

Project Number: 584-6106-000 Project Manager: Tim McMinn

> SP9 6E02003-09 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin F	Environmen	tal Lab, l	L .P.	•			
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	P6E0505	05/02/16	05/03/16	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	P6E0505	05/02/16	05/03/16	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P6E0505	05/02/16	05/03/16	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P6E0505	05/02/16	05/03/16	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P6E0505	05/02/16	05/03/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		113 %	75-1.	25	P6E0505	05/02/16	05/03/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		108 %	75-1.	25	P6E0505	05/02/16	05/03/16	EPA 8021B	
General Chemistry Parameters by EPA	A / Standard Method	ls							
% Moisture	ND	0.1	%	1	P6E0406	05/04/16	05/04/16	% calculation	
Total Petroleum Hydrocarbons C6-C3:	5 by EPA Method 80	15M							
C6-C12	38.6	25.0	mg/kg dry	1	P6E0403	05/02/16	05/03/16	TPH 8015M	
>C12-C28	2640	25.0	mg/kg dry	1	P6E0403	05/02/16	05/03/16	TPH 8015M	
>C28-C35	271	25.0	mg/kg dry	1	P6E0403	05/02/16	05/03/16	TPH 8015M	
Surrogate: 1-Chlorooctane		101 %	70-1.	30	P6E0403	05/02/16	05/03/16	TPH 8015M	
Surrogate: o-Terphenyl		78.6 %	70-1.	30	P6E0403	05/02/16	05/03/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	2950	25.0	mg/kg dry	1	[CALC]	05/02/16	05/03/16	calc	

13000 West County Road 100 Odessa TX, 79765

Project Number: 584-6106-000

Project: State 20 Release

Project Manager: Tim McMinn

SP10 6E02003-10 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin E	nvironmen	tal Lab, I	□.P.				
Organics by GC									
Benzene	ND	0.00101	mg/kg dry	1	P6E0505	05/02/16	05/03/16	EPA 8021B	
Toluene	ND	0.00202	mg/kg dry	1	P6E0505	05/02/16	05/03/16	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P6E0505	05/02/16	05/03/16	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P6E0505	05/02/16	05/03/16	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P6E0505	05/02/16	05/03/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		112 %	75-1.	25	P6E0505	05/02/16	05/03/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		102 %	75-1.	25	P6E0505	05/02/16	05/03/16	EPA 8021B	
General Chemistry Parameters by EP	'A / Standard Method	s				·	·	- <u></u>	
% Moisture	1.0	0.1	%	1	P6E0406	05/04/16	05/04/16	% calculation	
Total Petroleum Hydrocarbons C6-C3	35 by EPA Method 80	15M							
C6-C12	50.6	25.3	mg/kg dry	1	P6E0403	05/02/16	05/03/16	TPH 8015M	
>C12-C28	2660	25.3	mg/kg dry	1	P6E0403	05/02/16	05/03/16	TPH 8015M	
>C28-C35	280	25.3	mg/kg dry	1	P6E0403	05/02/16	05/03/16	TPH 8015M	
Surrogate: 1-Chlorooctane		98.1 %	70-1.	30	P6E0403	05/02/16	05/03/16	TPH 8015M	
Surrogate: o-Terphenyl		81.0 %	70-1.	30	P6E0403	05/02/16	05/03/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	2990	25.3	mg/kg dry	1	[CALC]	05/02/16	05/03/16	calc	

13000 West County Road 100 Odessa TX, 79765 Project: State 20 Release Project Number: 584-6106-000

Project Manager: Tim McMinn

SP11 6E02003-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
y		nian Basin E					<i>L</i>		- 110105
	1 (111	nan basin r	an var ommen	itai Lab, I	⊔.1.				
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	P6E0505	05/02/16	05/02/16	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	P6E0505	05/02/16	05/02/16	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P6E0505	05/02/16	05/02/16	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P6E0505	05/02/16	05/02/16	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P6E0505	05/02/16	05/02/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.6 %	75-1.	25	P6E0505	05/02/16	05/02/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		114 %	75-1.	25	P6E0505	05/02/16	05/02/16	EPA 8021B	
General Chemistry Parameters by EPA	\ / Standard Method	s							
% Moisture	ND	0.1	%	1	P6E0406	05/04/16	05/04/16	% calculation	
Total Petroleum Hydrocarbons C6-C3	5 by EPA Method 80	15M							
C6-C12	53.8	25.0	mg/kg dry	1	P6E0403	05/02/16	05/03/16	TPH 8015M	
>C12-C28	2550	25.0	mg/kg dry	1	P6E0403	05/02/16	05/03/16	TPH 8015M	
>C28-C35	276	25.0	mg/kg dry	1	P6E0403	05/02/16	05/03/16	TPH 8015M	
Surrogate: 1-Chlorooctane		92.2 %	70-1.	30	P6E0403	05/02/16	05/03/16	TPH 8015M	
Surrogate: o-Terphenyl		97.1 %	70-1.	30	P6E0403	05/02/16	05/03/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	2880	25.0	mg/kg dry	1	[CALC]	05/02/16	05/03/16	calc	

13000 West County Road 100 Odessa TX, 79765 Project Number: 584-6106-000 Project Manager: Tim McMinn

Project: State 20 Release

Fax: (432) 563-2213

SP12 6E02003-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin E	nvironmer	ıtal Lab, l	L .P.				
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	P6E0505	05/02/16	05/03/16	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	P6E0505	05/02/16	05/03/16	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P6E0505	05/02/16	05/03/16	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P6E0505	05/02/16	05/03/16	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P6E0505	05/02/16	05/03/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		91.8 %	75-1	25	P6E0505	05/02/16	05/03/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		110 %	75-1	25	P6E0505	05/02/16	05/03/16	EPA 8021B	
General Chemistry Parameters by EP	'A / Standard Method	<u>s</u>							<u> </u>
% Moisture	ND	0.1	%	1	P6E0406	05/04/16	05/04/16	% calculation	
Total Petroleum Hydrocarbons C6-C3	35 by EPA Method 80	15M							
C6-C12	49.4	25.0	mg/kg dry	1	P6E0403	05/02/16	05/03/16	TPH 8015M	
>C12-C28	2740	25.0	mg/kg dry	1	P6E0403	05/02/16	05/03/16	TPH 8015M	
>C28-C35	277	25.0	mg/kg dry	1	P6E0403	05/02/16	05/03/16	TPH 8015M	
Surrogate: 1-Chlorooctane		99.4 %	70-1	30	P6E0403	05/02/16	05/03/16	TPH 8015M	
Surrogate: o-Terphenyl		76.3 %	70-1	30	P6E0403	05/02/16	05/03/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	3060	25.0	mg/kg dry	1	[CALC]	05/02/16	05/03/16	calc	

13000 West County Road 100

Project Number: 584-6106-000 Odessa TX, 79765 Project Manager: Tim McMinn

Fax: (432) 563-2213

SP13 6E02003-13 (Soil)

Project: State 20 Release

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	nian Basin E	Environmen	tal Lab, l	L .P.				
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	P6E0505	05/02/16	05/03/16	EPA 8021B	
Toluene	ND	0.00200	mg/kg dry	1	P6E0505	05/02/16	05/03/16	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P6E0505	05/02/16	05/03/16	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P6E0505	05/02/16	05/03/16	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P6E0505	05/02/16	05/03/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		104 %	75-1.	25	P6E0505	05/02/16	05/03/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		92.2 %	75-1.	25	P6E0505	05/02/16	05/03/16	EPA 8021B	
General Chemistry Parameters by EP	A / Standard Method	S							
% Moisture	ND	0.1	%	1	P6E0406	05/04/16	05/04/16	% calculation	
Total Petroleum Hydrocarbons C6-C3	5 by EPA Method 80	15M							
C6-C12	39.6	25.0	mg/kg dry	1	P6E0403	05/02/16	05/03/16	TPH 8015M	
>C12-C28	1190	25.0	mg/kg dry	1	P6E0403	05/02/16	05/03/16	TPH 8015M	
>C28-C35	110	25.0	mg/kg dry	1	P6E0403	05/02/16	05/03/16	TPH 8015M	
Surrogate: 1-Chlorooctane		88.3 %	70-1.	30	P6E0403	05/02/16	05/03/16	TPH 8015M	
Surrogate: o-Terphenyl		44.6 %	70-1.	30	P6E0403	05/02/16	05/03/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	1340	25.0	mg/kg dry	1	[CALC]	05/02/16	05/03/16	calc	

E Tech Environmental & Safety Solutions, Inc. Project: State 20 Release

13000 West County Road 100

Project Number: 584-6106-000 Odessa TX, 79765 Project Manager: Tim McMinn

Fax: (432) 563-2213

SP14 6E02003-14 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Permi	an Basin E	Environme	ntal Lab, l	L.P.				
Organics by GC									
Benzene	ND	0.00101	mg/kg dry	1	P6E0505	05/02/16	05/02/16	EPA 8021B	
Toluene	ND	0.00202	mg/kg dry	1	P6E0505	05/02/16	05/02/16	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P6E0505	05/02/16	05/02/16	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P6E0505	05/02/16	05/02/16	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P6E0505	05/02/16	05/02/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		105 %	75-1	25	P6E0505	05/02/16	05/02/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		98.8 %	75-1	25	P6E0505	05/02/16	05/02/16	EPA 8021B	
General Chemistry Parameters by EI	PA / Standard Methods								
% Moisture	1.0	0.1	%	1	P6E0205	05/02/16	05/03/16	% calculation	

13000 West County Road 100 Odessa TX, 79765 Project: State 20 Release

Project Number: 584-6106-000 Project Manager: Tim McMinn

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

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

rinaryte	resur	Limit	Ome	De l'er	resure	70ICEC	Limits	МЪ	Limit	110103
Batch P6E0505 - General Preparation	(GC)									
Blank (P6E0505-BLK1)				Prepared &	Analyzed:	05/02/16				
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00200	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	0.0574		"	0.0600		95.6	75-125			
Surrogate: 4-Bromofluorobenzene	0.0621		"	0.0600		103	75-125			
LCS (P6E0505-BS1)				Prepared &	Analyzed:	05/02/16				
Benzene	0.102	0.00100	mg/kg wet	0.100		102	70-130			
Toluene	0.0984	0.00200	"	0.100		98.4	70-130			
Ethylbenzene	0.113	0.00100	"	0.100		113	70-130			
Xylene (p/m)	0.199	0.00200	"	0.200		99.3	70-130			
Xylene (o)	0.0978	0.00100	"	0.100		97.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.0605		"	0.0600		101	75-125			
Surrogate: 1,4-Difluorobenzene	0.0610		"	0.0600		102	75-125			
LCS Dup (P6E0505-BSD1)				Prepared &	Analyzed:	05/02/16				
Benzene	0.0922	0.00100	mg/kg wet	0.100		92.2	70-130	9.85	20	
Toluene	0.0968	0.00200	"	0.100		96.8	70-130	1.57	20	
Ethylbenzene	0.109	0.00100	"	0.100		109	70-130	2.76	20	
Xylene (p/m)	0.204	0.00200	"	0.200		102	70-130	2.92	20	
Xylene (o)	0.101	0.00100	"	0.100		101	70-130	3.73	20	
Surrogate: 4-Bromofluorobenzene	0.0668		"	0.0600		111	75-125			
Surrogate: 1,4-Difluorobenzene	0.0615		"	0.0600		103	75-125			
Matrix Spike (P6E0505-MS1)	Sour	ce: 6E02003	-13	Prepared: 0	5/02/16 A	nalyzed: 05	5/03/16			
Benzene	0.0711	0.00100	mg/kg dry	0.100	ND	71.1	80-120			QM-0
Toluene	0.0640	0.00200	"	0.100	ND	64.0	80-120			QM-0
Ethylbenzene	0.0596	0.00100	"	0.100	ND	59.6	80-120			QM-0
Xylene (p/m)	0.0950	0.00200	"	0.200	ND	47.5	80-120			QM-0
Xylene (o)	0.0506	0.00100	"	0.100	ND	50.6	80-120			QM-0
Surrogate: 4-Bromofluorobenzene	0.0629		"	0.0600		105	75-125			
Surrogate: 1,4-Difluorobenzene	0.0674		"	0.0600		112	75-125			

13000 West County Road 100 Odessa TX, 79765

& Safety Solutions, Inc.

Project: State 20 Release
and 100

Project Number: 584-6106-000

Project Manager: Tim McMinn

Fax: (432) 563-2213

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

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

Batch P6E0505 - General Preparation (GC)	Batch Po	6E0505 -	General	Prepara	ation ((GC)	,
---	----------	----------	---------	---------	---------	------	---

Matrix Spike Dup (P6E0505-MSD1)	Sour	ce: 6E02003	3-13	Prepared: 0	5/02/16 A	nalyzed: 05	5/03/16			
Benzene	0.0440	0.00100	mg/kg dry	0.100	ND	44.0	80-120	47.0	20	QM-07
Toluene	0.0383	0.00200	"	0.100	ND	38.3	80-120	50.2	20	QM-07
Ethylbenzene	0.0287	0.00100	"	0.100	ND	28.7	80-120	70.1	20	QM-07
Xylene (p/m)	0.0503	0.00200	"	0.200	ND	25.1	80-120	61.5	20	QM-07
Xylene (o)	0.0402	0.00100	"	0.100	ND	40.2	80-120	23.0	20	QM-07
Surrogate: 1,4-Difluorobenzene	0.0677		"	0.0600		113	75-125			
Surrogate: 4-Bromofluorobenzene	0.0537		"	0.0600		89.6	75-125			

13000 West County Road 100

Odessa TX, 79765

Project: State 20 Release

Project Number: 584-6106-000 Project Manager: Tim McMinn

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 P6E0205 - *** DEFAULT PREP ***										
Blank (P6E0205-BLK1)				Prepared: (05/02/16 A	nalyzed: 05	/03/16			
% Moisture	ND	0.1	%							
Duplicate (P6E0205-DUP1)	Sou	rce: 6E02003-	01	Prepared: (05/02/16 A	nalyzed: 05	/03/16			
% Moisture	2.0	0.1	%		1.0			66.7	20	
Duplicate (P6E0205-DUP2)	Sou	rce: 6E02013-	03	Prepared: (05/02/16 A	nalyzed: 05	/03/16			
% Moisture	16.0	0.1	%		16.0	-		0.00	20	
Batch P6E0406 - *** DEFAULT PREP ***										
Blank (P6E0406-BLK1)				Prepared &	k Analyzed:	05/04/16				
% Moisture	ND	0.1	%							
Duplicate (P6E0406-DUP1)	Sou	rce: 6D28009-	05	Prepared &	k Analyzed:	05/04/16				
% Moisture	9.0	0.1	%	-	9.0			0.00	20	
Duplicate (P6E0406-DUP2)	Sou	rce: 6D28010-	01	Prepared &	k Analyzed:	05/04/16				
% Moisture	8.0	0.1	%	-	8.0			0.00	20	
Duplicate (P6E0406-DUP3)	Sou	rce: 6D28012-	04	Prepared &	k Analyzed:	05/04/16				
% Moisture	10.0	0.1	%	•	10.0			0.00	20	
Duplicate (P6E0406-DUP4)	Sou	rce: 6E02003-	04	Prepared &	ն Analyzed:	05/04/16				
% Moisture	ND	0.1	%		ND				20	
Duplicate (P6E0406-DUP5)	Sou	rce: 6E02003-	09	Prepared &	k Analyzed:	05/04/16				
% Moisture	ND	0.1	%		ND				20	

13000 West County Road 100

Odessa TX, 79765 Project Manager: Tim McMi

Fax: (432) 563-2213

Project Number: 584-6106-000 Project Manager: Tim McMinn

Project: State 20 Release

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

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

Batch P6E0406 - *** DEFAULT PREP ***

Duplicate (P6E0406-DUP6)	Source: 6	E02003-1	3	Prepared & Analyzed: 05/04/16	
% Moisture	ND	0.1	%	ND	20

Project: State 20 Release 13000 West County Road 100 Project Number: 584-6106-000 Odessa TX, 79765

Fax: (432) 563-2213

Project Manager: Tim McMinn

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6E0403 - TX 1005										
Blank (P6E0403-BLK1)				Prepared: (05/02/16 At	nalyzed: 05	/03/16			
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	117		"	100		117	70-130			
Surrogate: o-Terphenyl	57.6		"	50.0		115	70-130			
LCS (P6E0403-BS1)				Prepared: (05/02/16 At	nalyzed: 05	/03/16			
C6-C12	840	25.0	mg/kg wet	1000		84.0	75-125			
>C12-C28	988	25.0	"	1000		98.8	75-125			
Surrogate: 1-Chlorooctane	123		"	100		123	70-130			
Surrogate: o-Terphenyl	50.9		"	50.0		102	70-130			
LCS Dup (P6E0403-BSD1)				Prepared: (05/02/16 A	nalyzed: 05	/03/16			
C6-C12	867	25.0	mg/kg wet	1000		86.7	75-125	3.17	20	
>C12-C28	1050	25.0	"	1000		105	75-125	6.34	20	
Surrogate: 1-Chlorooctane	127		"	100		127	70-130			
Surrogate: o-Terphenyl	48.6		"	50.0		97.2	70-130			

13000 West County Road 100 Project Number: 584-6106-000 Odessa TX, 79765 Project Manager: Tim McMinn

Notes and Definitions

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

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

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

	Drew	Darron			
Report Approved By:			Date:	5/12/2016	

Brent Barron, Laboratory Director/Technical Director

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

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

Temperature Upon Receipt:		U Days Time				Received by	Time	Date		hed by:	Relinquished by:
tody seals on contain tody seals on cooler(s tody seals on cooler(s toly seals on cooler to the tody seals on cooler to the tody seals on cooler?	Time Custody seals on container(s) Custody seals on cooler(s) Sample Hand Delivered by Sampler/Client Rep. ? by Courier? UPS DI	Date Date				Received by: Received by:	Time	Date Date	e to	enty M	Relinquished by Relinquished by
Laboratory Comments: Sample Containers Intact? VOCs Free of Headspace?										Special Instructions:	Special
片		日 っ い			1627	4/28				5P 10	
				7	1025	4/28				529	93
		<i>∨</i>			102J	4/100				292	Q
		3		-	162	4/20				192	
		2		- []	1610	4/28				586	
					1617	4/28				SP6	SO
		□ 		-	10.N	4/22				504	Z
		□			8	G 77				292	<i>b w</i>
		5			1003	4/18				562	92
		 - -		- 2	000	4/18				Spi	9
Metals: As Ag Ba Cd Cr Pb Hg Volatiles Semivolatiles	TPH: 418.1 (8015M) 1005 10 Cations (Ca, Mg, Na, K) Anions (Cl, SO4, CO3, HCO3) SAR / ESP / CEC	None Other (Specify) DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	HCI H ₂ SO ₄ NaOH Na ₂ S ₂ O ₃	No. of Containers	Time Sampled	Date Sampled			FIELD CODE		LAB # (lab use only)
Se		iners Matrix	Preservation & # of Containers	Pre					ロルじゃ		ORDER #:
	TCLP:) } }	<u> </u>	(lab use only)
Analyze		MOJUC	10-techen	e-IIIaii. LIMINO-TEL	1 e-11211				Jiame.	Campier orginature:	
· .				1					+	Complet Cia	
Standard	Report Format:	Repon	713	Fax No: 432-563-2213	Fax No:			200	No: 432-563-2200	Telephone No	
	PO#							Midland, Texas 79708		City/State/Zip:	
	Project Loc: <u>-End</u>							69	ddress: PO Box 8469	Company Address:	
178	Project #:					ons, Inc.	afety Solution	Etech Environmental & Safety Solutions, Inc		Company Name	
The State	Project Name:	Pr					7	Mexico	nager: IIIM	Project Manager:	
Phone: 432-563-2200 Fax: 432-563-2213			12800 W. Hwy 80 E Odessa, Texas 79765	1280 Odes					\		
RECOF	CHAIN OF CUSTODY RECORD AND ANALYSIS REQUES	CHAIN		nc.	tions, I	ty Solu	Safe	ntal &	Environmental & Safety Solutions, Inc.	Etech Env	Ete

Relinquished by:	Special Instructions: Relinquished by Britinguished by Relinquished by							1114	₩	2	7	LAB # (lab use only)	ORDER #:	(lab use only)							
ed by:	juished by							S	<u>"</u>	Ŋ	SP SP		#	y y	Sampler Signature:	Tele	City/	Com	Company Name	Proj	
								5614	SP13	5012			(A)		pler	Telephone No	City/State/Zip:	Company Address:	ıpanı	Project Manager:	
									N.				10 F 02008	•	Sigr	ie N	e/Zip	y Ad	y Na	/lana	
.													R		atur	Р	Ÿ	dres	me	iger:	
						ļ						FIELD CODE	(B)		ا با 1	41/	\z		lm	١.	
												COD	Y		=	432-6	lidlan	ОВ	tech	1 2)
	E-											m			1	3 2200	Midland, Texas 79708	PO Box 8469	Envir	3	
	1			 											1	B	xas	98	onm	3	
Date	Date														11		79708		ental	5	
								. •							\	1	"		Etech Environmental & Safety Solutions, Inc.	Man in	
	THE STATE OF THE S																		fety :	5	
Time		\vdash			-														Soluti	(
																			lons,		
Recei	Recei						,	# 60	41.	4/28	4/28								nc		
) <u>ğ</u>	Received by:		. :					0	128	90	òo	Date Sampled									
Received by ELO	× ×																				
ᆌ				1					1												
								103	1636	633	670	Time Sampled			φ	1					
								125	6	\\ \tag{\tau}	٧				mail	₹					•
											_	No. of Containers 💃 凗			1	133					
								Z		7	Z	lce			e-mail: tum Detac	Fax No: 432-563-2213					O 12
									Ò			HNO ₃	Prese			122					12800 W. Hwy 8 Odessa, Texas
		무										HCI	Preservation &		は						,"
		片				H	片	H			片	H ₂ SO ₄ NaOH			1-4						wy 8
		H		H	H	H	Н	Н	H		H	Na ₂ S ₂ O ₃	# of Containers		191						80 E § 79765
.												None	tainers		Č				. Ter		51
, PE	Date Date											Other (Specify)	Щ		6	$ \cdot $					
Mar Cate 1	0 0							1	A	1	N	DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid	Ma		nenu lon	27					
3 5											"	NP=Non-Potable Spacify Other	Matrix		IV.	por				P	
Time	Time								0	K	Z	TPH: 418.1 8015M 1005 10	06	П	7	Report Format:		Project Loc: Endedwork	P	Project Name:	Phone: 432-563-2200 Fax: 432-563-2213
\mathcal{I}												Cations (Ca, Mg, Na, K)]			mat	PO #	ᄄ	Project #:	Nam	
	Labo Samj Custo Custo Samp Samp Samp	빍	H	빝		뭐	뷰		믬		믬	Anions (CI, SO4, CO3, HCO3)	TOTAL:	TCLP:			.# 	I ¶ S	.# 	्रह 	
	wrato ble C s Fre bdys bdys bie H y San	H	믬	片	片	片	ዙ	H	片	님	H	SAR / ESP / CEC Metals: As Ag Ba Cd Cr Pb Hg		Ţ.Ŗ					N	Λ	
	ny Cx ontai e of l e als eals and L and Inpler	固		冒	旨	븁	旨	旨			F	Volatiles	닅		≥	Standard		3	100	1	Pho
l bon Bossint:	Laboratory Comments Sample Containers Intav VOCs Free of Headspace Custody seals on contain Custody seals on cooler Sample Hand Delivered by Sampler/Client Rep by Courier? UPS											Semivolatiles		JILL_∭III∙	halvz	ard		1	4	K,	ne:
]	Laboratory Comments: Sample Containers Intact? VOCs Free of Headspace? Custody seals on container(s) Custody seals on cooler(s) Sample Hand Delivered by Sampler/Client Rep. ? by Courier? UPS DI							K	X	8	X	BTEX 80200/5030 or BTEX 826	30		ze Fo	\Box		2	6	T	Phone: 432-563-2200 Fax: 432-563-2213
	:: ct? ce? ner(s ner(s		빔	H	Щ				片		H	RCI N O B M		\dashv	٦	TRRP		.	900		-563 -563
	⊒HTG (S)	빎	H	H	屵	片	片	片	片	片	片	N.O.R.M. Chlorides			1	٩		Z	6	6	-220 -221
	T	버		H	H	H	뭄	H	片		片			\dashv		ф		Z			ω 0
	<u>F</u> ♥ < < < < < <					靣									.	NPDES		'			
	§														4	Æ					
ຈໍ	Lone N N N N N N N N N N N N N N N N N N N		Д					P				RUSH TAT (Pre-Schedule) 24,	48, 72	hrs							
4.21		للا	نا	Ш	Ш	Ш	لـــار	d	X	Ø	À	Standard TAT								ane	24 of 2

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



Analytical Report

Prepared for:

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

Project: State 20 Release
Project Number: 584-6106-000
Location: Jal, NM

Lab Order Number: 6I02002



NELAP/TCEQ # T104704156-13-3

Report Date: 09/08/16

13000 West County Road 100 Odessa TX, 79765 Project: State 20 Release

Project Number: 584-6106-000 Project Manager: Tim McMinn

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SP3	6I02002-01	Soil	09/02/16 10:00	09-02-2016 15:30
SP4	6102002-02	Soil	09/02/16 10:03	09-02-2016 15:30
SP5	6102002-03	Soil	09/02/16 10:06	09-02-2016 15:30
SP6	6I02002-04	Soil	09/02/16 10:09	09-02-2016 15:30
SP7	6102002-05	Soil	09/02/16 10:12	09-02-2016 15:30
SP9	6102002-06	Soil	09/02/16 10:15	09-02-2016 15:30
SP10	6I02002-07	Soil	09/02/16 10:18	09-02-2016 15:30
SP11	6102002-08	Soil	09/02/16 10:21	09-02-2016 15:30
SP12	6102002-09	Soil	09/02/16 10:24	09-02-2016 15:30
SP13	6I02002-10	Soil	09/02/16 10:27	09-02-2016 15:30
SP14	6I02002-11	Soil	09/02/16 10:30	09-02-2016 15:30
SP15	6I02002-12	Soil	09/02/16 10:35	09-02-2016 15:30
SP16	6I02002-13	Soil	09/02/16 10:40	09-02-2016 15:30
SP17	6I02002-14	Soil	09/02/16 10:45	09-02-2016 15:30
SP18	6I02002-15	Soil	09/02/16 10:50	09-02-2016 15:30

13000 West County Road 100Project Number:584-6106-000Odessa TX, 79765Project Manager:Tim McMinn

SP3 6I02002-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Permi	an Basin Er	nvironme	ental Lab, L	.P.				

General	Chemistry	/ Parameters by	y EPA /	Standard Methods
	-			

% Moisture	15.0	0.1	%	I	P610701	09/07/16	09/07/16	% calculation	
Total Petroleum Hydrocarbons C6-C35 by l	EPA Method 80	15M							
C6-C12	ND	29.4	mg/kg dry	1	P6I0803	09/06/16	09/06/16	TPH 8015M	
>C12-C28	ND	29.4	mg/kg dry	1	P6I0803	09/06/16	09/06/16	TPH 8015M	
>C28-C35	ND	29.4	mg/kg dry	1	P6I0803	09/06/16	09/06/16	TPH 8015M	
Surrogate: 1-Chlorooctane		72.0 %	70-130		P6I0803	09/06/16	09/06/16	TPH 8015M	
Surrogate: o-Terphenyl		95.2 %	70-130		P6I0803	09/06/16	09/06/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	29.4	mg/kg dry	1	[CALC]	09/06/16	09/06/16	calc	

13000 West County Road 100 Project Number: 584-6106-000 Odessa TX, 79765 Project Manager: Tim McMinn

SP4 6I02002-02 (Soil)

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

General Chemistry Parameters by EPA / S	tandard Method	s						
% Moisture	13.0	0.1	%	1	P6I0701	09/07/16	09/07/16	% calculation
Total Petroleum Hydrocarbons C6-C35 by	EPA Method 80	15M						
C6-C12	ND	28.7	mg/kg dry	1	P6I0803	09/06/16	09/06/16	TPH 8015M
>C12-C28	ND	28.7	mg/kg dry	1	P6I0803	09/06/16	09/06/16	TPH 8015M
>C28-C35	ND	28.7	mg/kg dry	1	P6I0803	09/06/16	09/06/16	TPH 8015M
Surrogate: 1-Chlorooctane		81.2 %	70-130		P6I0803	09/06/16	09/06/16	TPH 8015M
Surrogate: o-Terphenyl		106 %	70-130		P6I0803	09/06/16	09/06/16	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	28.7	mg/kg dry	1	[CALC]	09/06/16	09/06/16	calc

13000 West County Road 100 Project Number: 584-6106-000 Odessa TX, 79765 Project Manager: Tim McMinn

SP5 6I02002-03 (Soil)

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

General Chemistry Parameters by EPA / St	andard Method	S						
% Moisture	16.0	0.1	%	1	P6I0701	09/07/16	09/07/16	% calculation
Total Petroleum Hydrocarbons C6-C35 by	EPA Method 80	15M						
C6-C12	ND	29.8	mg/kg dry	1	P6I0803	09/06/16	09/06/16	TPH 8015M
>C12-C28	ND	29.8	mg/kg dry	1	P6I0803	09/06/16	09/06/16	TPH 8015M
>C28-C35	ND	29.8	mg/kg dry	1	P6I0803	09/06/16	09/06/16	TPH 8015M
Surrogate: 1-Chlorooctane		81.0 %	70-130		P6I0803	09/06/16	09/06/16	TPH 8015M
Surrogate: o-Terphenyl		107 %	70-130		P6I0803	09/06/16	09/06/16	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	29.8	mg/kg dry	1	[CALC]	09/06/16	09/06/16	calc

13000 West County Road 100 Project Number: 584-6106-000 Odessa TX, 79765 Project Manager: Tim McMinn

SP6 6I02002-04 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Parmis	n Rasin Fr	wironm	antal Lah I	p				

General Chemistry Parameters by EPA / Standard Methods												
% Moisture	14.0	0.1	%	1	P6I0701	09/07/16	09/07/16	% calculation				
Total Petroleum Hydrocarbons C6-C35 by	EPA Method 80	15M										
C6-C12	ND	29.1	mg/kg dry	1	P6I0803	09/06/16	09/06/16	TPH 8015M				
>C12-C28	ND	29.1	mg/kg dry	1	P6I0803	09/06/16	09/06/16	TPH 8015M				
>C28-C35	ND	29.1	mg/kg dry	1	P6I0803	09/06/16	09/06/16	TPH 8015M				
Surrogate: 1-Chlorooctane		77.3 %	70-130		P6I0803	09/06/16	09/06/16	TPH 8015M				
Surrogate: o-Terphenyl		101 %	70-130		P6I0803	09/06/16	09/06/16	TPH 8015M				
Total Petroleum Hydrocarbon C6-C35	ND	29.1	mg/kg dry	1	[CALC]	09/06/16	09/06/16	calc				

13000 West County Road 100 Project Number: 584-6106-000 Odessa TX, 79765 Project Manager: Tim McMinn

SP7 6I02002-05 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Permian B	asin En	vironmen	ıtal I	Lab,	L.P.
-----------	---------	----------	--------	------	------

	1 (1111	un Dusin L	an vin ommenum	ш.,				
General Chemistry Parameters by EPA / St	tandard Method	5						
% Moisture	16.0	0.1	%	1	P6I0701	09/07/16	09/07/16	% calculation
Total Petroleum Hydrocarbons C6-C35 by	EPA Method 80	15M						
C6-C12	ND	29.8	mg/kg dry	1	P6I0803	09/06/16	09/06/16	TPH 8015M
>C12-C28	ND	29.8	mg/kg dry	1	P6I0803	09/06/16	09/06/16	TPH 8015M
>C28-C35	ND	29.8	mg/kg dry	1	P6I0803	09/06/16	09/06/16	TPH 8015M
Surrogate: 1-Chlorooctane		74.8 %	70-130		P6I0803	09/06/16	09/06/16	TPH 8015M
Surrogate: o-Terphenyl		102 %	70-130		P6I0803	09/06/16	09/06/16	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	29.8	mg/kg dry	1	[CALC]	09/06/16	09/06/16	calc

13000 West County Road 100 Project Number: 584-6106-000 Odessa TX, 79765 Project Manager: Tim McMinn

32.0

ND

32.0

SP9 6102002-06 (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													
General Chemistry Parameters by EP	A / Standard Methods												
% Moisture	13.0	0.1	%	1	P6I0701	09/07/16	09/07/16	% calculation					
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M													
C6-C12	ND	28.7	mg/kg dry	1	P6I0803	09/06/16	09/06/16	TPH 8015M					

28.7 mg/kg dry

28.7 mg/kg dry

 $28.7 \quad mg/kg \; dry$

70-130

70-130

78.4 %

106 %

P6I0803

P6I0803

P6I0803

P6I0803

[CALC]

09/06/16

09/06/16

09/06/16

09/06/16

09/06/16

09/06/16

09/06/16

09/06/16

09/06/16

09/06/16

TPH 8015M

TPH 8015M

TPH 8015M

TPH 8015M

calc

C6-C35

>C12-C28

>C28-C35

Surrogate: 1-Chlorooctane

Total Petroleum Hydrocarbon

Surrogate: o-Terphenyl

13000 West County Road 100 Project Number: 584-6106-000 Odessa TX, 79765 Project Manager: Tim McMinn

SP10 6I02002-07 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

	1 (11111	an Dasin E	invii ommentai	Lab,	L.I .				
General Chemistry Parameters by EPA / S	tandard Methods	3							
% Moisture	17.0	0.1	%	1	P6I0701	09/07/16	09/07/16	% calculation	
Total Petroleum Hydrocarbons C6-C35 by	EPA Method 801	15M							
C6-C12	ND	30.1	mg/kg dry	1	P6I0803	09/06/16	09/06/16	TPH 8015M	
>C12-C28	ND	30.1	mg/kg dry	1	P6I0803	09/06/16	09/06/16	TPH 8015M	
>C28-C35	ND	30.1	mg/kg dry	1	P6I0803	09/06/16	09/06/16	TPH 8015M	
Surrogate: 1-Chlorooctane		76.9 %	70-130		P6I0803	09/06/16	09/06/16	TPH 8015M	
Surrogate: o-Terphenyl		104 %	70-130		P6I0803	09/06/16	09/06/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	30.1	mg/kg dry	1	[CALC]	09/06/16	09/06/16	calc	

13000 West County Road 100 Project Number: 584-6106-000 Odessa TX, 79765 Project Manager: Tim McMinn

SP11 6I02002-08 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

General Chemistry Parameters by EPA / S	Standard Method	s		,				
% Moisture	13.0	0.1	%	1	P6I0701	09/07/16	09/07/16	% calculation
Total Petroleum Hydrocarbons C6-C35 by	EPA Method 80	15M						
C6-C12	ND	28.7	mg/kg dry	1	P6I0803	09/06/16	09/06/16	TPH 8015M
>C12-C28	ND	28.7	mg/kg dry	1	P6I0803	09/06/16	09/06/16	TPH 8015M
>C28-C35	ND	28.7	mg/kg dry	1	P6I0803	09/06/16	09/06/16	TPH 8015M
Surrogate: 1-Chlorooctane		80.4 %	70-130		P6I0803	09/06/16	09/06/16	TPH 8015M
Surrogate: o-Terphenyl		111 %	70-130		P6I0803	09/06/16	09/06/16	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	28.7	mg/kg dry	1	[CALC]	09/06/16	09/06/16	calc

13000 West County Road 100 Project Number: 584-6106-000 Odessa TX, 79765 Project Manager: Tim McMinn

SP12 6I02002-09 (Soil)

Analyte	Result	porting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Danmian D	osin Env	·•••••	allah Il					

% Moisture	12.0	0.1	%	1	P6I0701	09/07/16	09/07/16	% calculation
Total Petroleum Hydrocarbons C6-C3	5 by EPA Method 80	15M						
C6-C12	ND	28.4	mg/kg dry	1	P6I0703	09/06/16	09/07/16	TPH 8015M
>C12-C28	82.6	28.4	mg/kg dry	1	P6I0703	09/06/16	09/07/16	TPH 8015M
>C28-C35	ND	28.4	mg/kg dry	1	P6I0703	09/06/16	09/07/16	TPH 8015M
Surrogate: 1-Chlorooctane		78.5 %	70-130		P6I0703	09/06/16	09/07/16	TPH 8015M
Surrogate: o-Terphenyl		100 %	70-130		P6I0703	09/06/16	09/07/16	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	82.6	28.4	mg/kg dry	1	[CALC]	09/06/16	09/07/16	calc

13000 West County Road 100 Project Number: 584-6106-000 Odessa TX, 79765 Project Manager: Tim McMinn

SP13 6I02002-10 (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												

%

0.1

P6I0701

09/07/16

09/07/16

% calculation

% Moisture	13.0
Total Petroleum Hydrocarbons C	6-C35 by EPA Method 8015M

C6-C35

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	28.7	mg/kg dry	1	P6I0703	09/06/16	09/07/16	TPH 8015M	
>C12-C28	96.7	28.7	mg/kg dry	1	P6I0703	09/06/16	09/07/16	TPH 8015M	
>C28-C35	ND	28.7	mg/kg dry	1	P6I0703	09/06/16	09/07/16	TPH 8015M	
Surrogate: 1-Chlorooctane		88.6 %	70-130		P6I0703	09/06/16	09/07/16	TPH 8015M	
Surrogate: o-Terphenyl		111 %	70-130		P6I0703	09/06/16	09/07/16	TPH 8015M	
Total Petroleum Hydrocarbon	96.7	28.7	mg/kg dry	1	[CALC]	09/06/16	09/07/16	calc	

13000 West County Road 100 Project Number: 584-6106-000 Odessa TX, 79765 Project Manager: Tim McMinn

SP14 6I02002-11 (Soil)

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

Permian	Rasin	Environ	mental	Lab.	L.P.
ı cı mnan	Dasin	LIII VIII VIII	mentar	Lav	L-1.

				,				
General Chemistry Parameters by EPA / St	tandard Methods	3						
% Moisture	14.0	0.1	%	1	P6I0701	09/07/16	09/07/16	% calculation
Total Petroleum Hydrocarbons C6-C35 by	EPA Method 80	15M						
C6-C12	ND	29.1	mg/kg dry	1	P6I0703	09/06/16	09/07/16	TPH 8015M
>C12-C28	ND	29.1	mg/kg dry	1	P6I0703	09/06/16	09/07/16	TPH 8015M
>C28-C35	ND	29.1	mg/kg dry	1	P6I0703	09/06/16	09/07/16	TPH 8015M
Surrogate: 1-Chlorooctane		88.8 %	70-130		P6I0703	09/06/16	09/07/16	TPH 8015M
Surrogate: o-Terphenyl		113 %	70-130		P6I0703	09/06/16	09/07/16	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	29.1	mg/kg dry	1	[CALC]	09/06/16	09/07/16	calc

13000 West County Road 100

Odessa TX, 79765

Project: State 20 Release

Project Number: 584-6106-000 Project Manager: Tim McMinn

> SP15 6I02002-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	iian Basin E	nvironmen	ıtal Lab, I	L .P.				
Organics by GC									
Benzene	ND	0.00109	mg/kg dry	1	P6I0603	09/02/16	09/02/16	EPA 8021B	
Toluene	ND	0.00217	mg/kg dry	1	P6I0603	09/02/16	09/02/16	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P6I0603	09/02/16	09/02/16	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P6I0603	09/02/16	09/02/16	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P6I0603	09/02/16	09/02/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		131 %	75-1	25	P6I0603	09/02/16	09/02/16	EPA 8021B	S-GC
Surrogate: 4-Bromofluorobenzene		100 %	75-1	25	P6I0603	09/02/16	09/02/16	EPA 8021B	
General Chemistry Parameters by EPA	/ Standard Method	ls							
% Moisture	8.0	0.1	%	1	P6I0701	09/07/16	09/07/16	% calculation	
Total Petroleum Hydrocarbons C6-C35	by EPA Method 80)15M							
C6-C12	ND	27.2	mg/kg dry	1	P6I0703	09/06/16	09/07/16	TPH 8015M	
>C12-C28	72.3	27.2	mg/kg dry	1	P6I0703	09/06/16	09/07/16	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P6I0703	09/06/16	09/07/16	TPH 8015M	
Surrogate: 1-Chlorooctane		81.5 %	70-1	30	P6I0703	09/06/16	09/07/16	TPH 8015M	
Surrogate: o-Terphenyl		104 %	70-1	30	P6I0703	09/06/16	09/07/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	72.3	27.2	mg/kg dry	1	[CALC]	09/06/16	09/07/16	calc	

13000 West County Road 100

Odessa TX, 79765

Project: State 20 Release
Project Number: 584-6106-000
Project Manager: Tim McMinn

Fax: (432) 563-2213

SP16 6102002-13 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin E	nvironmen	ıtal Lab, I	P.				
Organics by GC									
Benzene	ND	0.00111	mg/kg dry	1	P6I0603	09/02/16	09/02/16	EPA 8021B	
Γoluene	ND	0.00222	mg/kg dry	1	P6I0603	09/02/16	09/02/16	EPA 8021B	
Ethylbenzene	ND	0.00111	mg/kg dry	1	P6I0603	09/02/16	09/02/16	EPA 8021B	
Kylene (p/m)	ND	0.00222	mg/kg dry	1	P6I0603	09/02/16	09/02/16	EPA 8021B	
Kylene (o)	ND	0.00111	mg/kg dry	1	P6I0603	09/02/16	09/02/16	EPA 8021B	
Gurrogate: 1,4-Difluorobenzene		135 %	75-1	25	P6I0603	09/02/16	09/02/16	EPA 8021B	S-GC
urrogate: 4-Bromofluorobenzene		95.6 %	75-1	25	P6I0603	09/02/16	09/02/16	EPA 8021B	
General Chemistry Parameters by EP	A / Standard Method	ds							
% Moisture	10.0	0.1	%	1	P6I0701	09/07/16	09/07/16	% calculation	
Cotal Petroleum Hydrocarbons C6-C3	35 by EPA Method 80	015M							
C6-C12	ND	27.8	mg/kg dry	1	P6I0703	09/06/16	09/07/16	TPH 8015M	
·C12-C28	38.9	27.8	mg/kg dry	1	P6I0703	09/06/16	09/07/16	TPH 8015M	
C28-C35	ND	27.8	mg/kg dry	1	P6I0703	09/06/16	09/07/16	TPH 8015M	
Gurrogate: 1-Chlorooctane		83.1 %	70-1	30	P6I0703	09/06/16	09/07/16	TPH 8015M	
Gurrogate: o-Terphenyl		108 %	70-1	30	P6I0703	09/06/16	09/07/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	38.9	27.8	mg/kg dry	1	[CALC]	09/06/16	09/07/16	calc	

13000 West County Road 100 Odessa TX, 79765 Project: State 20 Release

Project Number: 584-6106-000 Project Manager: Tim McMinn

> SP17 6I02002-14 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin E	Environmen	ıtal Lab, I	Ĺ.P.				
Organics by GC									
Benzene	ND	0.00110	mg/kg dry	1	P6I0603	09/02/16	09/02/16	EPA 8021B	
Toluene	ND	0.00220	mg/kg dry	1	P6I0603	09/02/16	09/02/16	EPA 8021B	
Ethylbenzene	ND	0.00110	mg/kg dry	1	P6I0603	09/02/16	09/02/16	EPA 8021B	
Xylene (p/m)	ND	0.00220	mg/kg dry	1	P6I0603	09/02/16	09/02/16	EPA 8021B	
Xylene (o)	ND	0.00110	mg/kg dry	1	P6I0603	09/02/16	09/02/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		103 %	75-1	25	P6I0603	09/02/16	09/02/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		137 %	75-1	25	P6I0603	09/02/16	09/02/16	EPA 8021B	S-GC
General Chemistry Parameters by EP.	A / Standard Method	ls							
% Moisture	9.0	0.1	%	1	P6I0701	09/07/16	09/07/16	% calculation	
Total Petroleum Hydrocarbons C6-C3	55 by EPA Method 80	15M							
C6-C12	ND	27.5	mg/kg dry	1	P6I0703	09/06/16	09/07/16	TPH 8015M	
>C12-C28	50.9	27.5	mg/kg dry	1	P6I0703	09/06/16	09/07/16	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P6I0703	09/06/16	09/07/16	TPH 8015M	
Surrogate: 1-Chlorooctane		80.8 %	70-1	30	P6I0703	09/06/16	09/07/16	TPH 8015M	
Surrogate: o-Terphenyl		107 %	70-1	30	P6I0703	09/06/16	09/07/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	50.9	27.5	mg/kg dry	1	[CALC]	09/06/16	09/07/16	calc	

13000 West County Road 100

Odessa TX, 79765

Project: State 20 Release

Project Number: 584-6106-000 Project Manager: Tim McMinn

> SP18 6I02002-15 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin E	nvironmen	ıtal Lab, I	L .P.				
Organics by GC									
Benzene	ND	0.00111	mg/kg dry	1	P6I0603	09/02/16	09/02/16	EPA 8021B	
Toluene	ND	0.00222	mg/kg dry	1	P6I0603	09/02/16	09/02/16	EPA 8021B	
Ethylbenzene	ND	0.00111	mg/kg dry	1	P6I0603	09/02/16	09/02/16	EPA 8021B	
Xylene (p/m)	ND	0.00222	mg/kg dry	1	P6I0603	09/02/16	09/02/16	EPA 8021B	
Xylene (o)	ND	0.00111	mg/kg dry	1	P6I0603	09/02/16	09/02/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		107 %	75-1	25	P6I0603	09/02/16	09/02/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		146 %	75-1	25	P6I0603	09/02/16	09/02/16	EPA 8021B	S-GC
General Chemistry Parameters by EPA	/ Standard Method	ls							
% Moisture	10.0	0.1	%	1	P6I0701	09/07/16	09/07/16	% calculation	
Total Petroleum Hydrocarbons C6-C35	by EPA Method 80	015M							
C6-C12	ND	27.8	mg/kg dry	1	P6I0703	09/06/16	09/07/16	TPH 8015M	
>C12-C28	119	27.8	mg/kg dry	1	P6I0703	09/06/16	09/07/16	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P6I0703	09/06/16	09/07/16	TPH 8015M	
Surrogate: 1-Chlorooctane		142 %	70-1	30	P6I0703	09/06/16	09/07/16	TPH 8015M	
Surrogate: o-Terphenyl		174 %	70-1	30	P6I0703	09/06/16	09/07/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	119	27.8	mg/kg dry	1	[CALC]	09/06/16	09/07/16	calc	

13000 West County Road 100

Odessa TX, 79765

Project: State 20 Release

Project Number: 584-6106-000 Project Manager: Tim McMinn

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

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

Blank (P6I0603-BLK1)				Prepared & Ana	alyzed:	09/02/16				
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00200	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	0.0671		"	0.0500		134	75-125			S-GC
Surrogate: 4-Bromofluorobenzene	0.0544		"	0.0500		109	75-125			
LCS (P6I0603-BS1)				Prepared & Ana	alyzed:	09/02/16				
Benzene	0.0907	0.00100	mg/kg wet	0.100		90.7	70-130			
Toluene	0.0922	0.00200	"	0.100		92.2	70-130			
Ethylbenzene	0.0851	0.00100	"	0.100		85.1	70-130			
Xylene (p/m)	0.158	0.00200	"	0.200		78.9	70-130			
Xylene (o)	0.0782	0.00100	"	0.100		78.2	70-130			
Surrogate: 1,4-Difluorobenzene	0.0674		"	0.0500		135	75-125			S-GC
Surrogate: 4-Bromofluorobenzene	0.0452		"	0.0500		90.5	75-125			
LCS Dup (P6I0603-BSD1)				Prepared & Ana	alyzed:	09/02/16				
Benzene	0.0888	0.00100	mg/kg wet	0.100		88.8	70-130	2.16	20	
Toluene	0.0886	0.00200	"	0.100		88.6	70-130	3.98	20	
Ethylbenzene	0.0843	0.00100	"	0.100		84.3	70-130	0.957	20	
Xylene (p/m)	0.159	0.00200	"	0.200		79.4	70-130	0.644	20	
Xylene (o)	0.0757	0.00100	"	0.100		75.7	70-130	3.29	20	
Surrogate: 1,4-Difluorobenzene	0.0666		"	0.0500		133	75-125			S-GC
Surrogate: 4-Bromofluorobenzene	0.0430		"	0.0500		86.0	75-125			
Duplicate (P6I0603-DUP1)	Sou	rce: 6I01003-	-14	Prepared: 09/02	2/16 An	alyzed: 09	0/05/16			
Benzene	1.36	0.111	mg/kg dry		1.60			16.0	20	
Toluene	17.9	0.222	"		18.5			3.36	20	
Ethylbenzene	19.7	0.111	"	2	21.9			10.8	20	
Xylene (p/m)	115	0.222	"		115			0.0821	20	
Xylene (o)	5.16	0.111	"	:	5.40			4.40	20	
Surrogate: 4-Bromofluorobenzene	0.0722		"	0.0556		130	75-125			S-GC
Surrogate: 1,4-Difluorobenzene	0.0648		"	0.0556		117	75-125			

Permian Basin Environmental Lab, L.P.

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

13000 West County Road 100 Project Number: 584-6106-000 Odessa TX, 79765

Fax: (432) 563-2213

Project Manager: Tim McMinn

Project: State 20 Release

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 P610701 - *** DEFAULT PREP ***										
Blank (P6I0701-BLK1)				Prepared &	Analyzed	09/07/16				
% Moisture	ND	0.1	%							
Duplicate (P6I0701-DUP1)	Sou	rce: 6I01003-1	4	Prepared &	Analyzed:	09/07/16				
% Moisture	10.0	0.1	%		10.0			0.00	20	
Duplicate (P6I0701-DUP2)	Sou	rce: 6H31002-	01	Prepared &	Analyzed	09/07/16				
% Moisture	7.0	0.1	%		8.0			13.3	20	
Duplicate (P6I0701-DUP3)	Sou	rce: 6 I02002 -1	15	Prepared &	Analyzed	09/07/16				
% Moisture	9.0	0.1	%		10.0			10.5	20	
Duplicate (P6I0701-DUP4)	Sou	rce: 6106001-(19	Prepared &	Analyzed:	: 09/07/16				
% Moisture	4.0	0.1	%		4.0			0.00	20	

13000 West County Road 100 Project Number: 584-6106-000 Odessa TX, 79765 Project Manager: Tim McMinn

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Analyte	Kesult	Limit	Units	Levei	Kesuit	%KEC	Limits	KPD	Limit	Notes
Batch P6I0703 - TX 1005										
Blank (P6I0703-BLK1)				Prepared: (09/06/16 A	nalyzed: 09	9/07/16			
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	70.8		"	100		70.8	70-130			
Surrogate: o-Terphenyl	43.2		"	50.0		86.5	70-130			
LCS (P6I0703-BS1)				Prepared: (09/06/16 A	nalyzed: 09	9/07/16			
C6-C12	853	25.0	mg/kg wet	1000		85.3	75-125			
>C12-C28	802	25.0	"	1000		80.2	75-125			
Surrogate: 1-Chlorooctane	73.6		"	100		73.6	70-130			
Surrogate: o-Terphenyl	39.4		"	50.0		78.7	70-130			
LCS Dup (P6I0703-BSD1)				Prepared: (09/06/16 A	nalyzed: 09	9/07/16			
C6-C12	901	25.0	mg/kg wet	1000		90.1	75-125	5.53	20	
>C12-C28	831	25.0	"	1000		83.1	75-125	3.60	20	
Surrogate: 1-Chlorooctane	137		"	120		114	70-130			
Surrogate: o-Terphenyl	80.3		"	60.0		134	70-130			S-GO
Batch P6I0803 - TX 1005										
Blank (P6I0803-BLK1)				Prepared &	Analyzed:	09/06/16				
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	38.0		"	50.0		76.1	70-130			
Surrogate: o-Terphenyl	25.0		"	25.0		100	70-130			

E Tech Environmental & Safety Solutions, Inc. Project: State 20 Release

13000 West County Road 100

Odessa TX, 79765

Project Number: 584-6106-000 Project Manager: Tim McMinn Fax: (432) 563-2213

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

Analyta	P. coult	Reporting	Lluita	Spike	Source	%REC	%REC	DDD	RPD	Notes
Analyte	Result	Limit	Units	Level	Result	%KEC	Limits	RPD	Limit	Notes
Batch P6I0803 - TX 1005										
LCS (P6I0803-BS1)				Prepared &	Analyzed	: 09/06/16				
C6-C12	870	25.0	mg/kg wet	700		124	75-125			
>C12-C28	610	25.0	"	700		87.1	75-125			
Surrogate: 1-Chlorooctane	55.2		"	50.0		110	70-130			
Surrogate: o-Terphenyl	30.0		"	25.0		120	70-130			
LCS Dup (P6I0803-BSD1)				Prepared &	Analyzed	: 09/06/16				
C6-C12	788	25.0	mg/kg wet	700		113	75-125	9.99	20	
>C12-C28	595	25.0	"	700		85.0	75-125	2.40	20	
Surrogate: 1-Chlorooctane	59.2		"	50.0		118	70-130			
Surrogate: o-Terphenyl	30.5		"	25.0		122	70-130			
Matrix Spike (P6I0803-MS1)	Sou	rce: 6I02001-	-10	Prepared: (09/06/16 A	nalyzed: 09	9/07/16			
C6-C12	897	26.9	mg/kg dry	1080	ND	83.5	75-125			
>C12-C28	874	26.9	"	1080	ND	81.3	75-125			
Surrogate: 1-Chlorooctane	80.5		"	108		74.9	70-130			
Surrogate: o-Terphenyl	43.6		"	53.8		81.0	70-130			
Matrix Spike Dup (P6I0803-MSD1)	Sou	rce: 6I02001-	-10	Prepared: (09/06/16 A	nalyzed: 09	9/07/16			
C6-C12	996	26.9	mg/kg dry	1080	ND	92.7	75-125	10.5	20	
>C12-C28	955	26.9	"	1080	ND	88.8	75-125	8.88	20	
Surrogate: 1-Chlorooctane	89.3		"	108		83.0	70-130			
Surrogate: o-Terphenyl	47.8		"	53.8		88.9	70-130			

13000 West County Road 100 Project Number: 584-6106-000 Odessa TX, 79765 Project Manager: Tim McMinn

Notes and Definitions

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

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

Duplicate

MS Matrix Spike

Dup

	Buron		
Report Approved By:		Date:	9/8/2016

Brent Barron, Laboratory Director/Technical Director

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

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

Relinquished by: Relinquished by: Relinquished by: Relinquished by:	0	۲	200	J	6	ŀη	ב	ļ,	100		-LAB # (lab use only)	(lab use only) ORDER #:							
hed by:	V	区	V	V	V	CA	N	\$	W	U	A Comment of the Comm	# 9 <u>P</u>	v.) <u>Te</u>	င္ဆ	ဂ္ဂ	င္ပ	P	
w w w uctio	7		7	7	5	7	6	3	2	S		6	mpie	Telephone No:	City/State/Zip:	mpa	mpa	oject	
සී ፣፣	M	1		ਰ	- N			~ "				IXI		one I	ite/Z	ny A	ny z	Mar	
Beaty												6702	Sampler Signature:	6	₽	Company Address:	Company Name	Project Manager:	
1 1/2			1.					j.			FIELD CODE		lre:						
						· 					8	002	E .	432-563-2200	Midland, Texas 79708	PO Box 8469	Etech Environmental & Safety Solutions, Inc	Tim McMinn	
											R	10.	hwell Little and I	63-2	ind 1	X XO) E	McMii	
200						:						$ \mathcal{V} $	The state of the s	200	exas	469	ironn	3	
0 D D													5		7970		nenta		
666														-			80		
			 														afety		
Lime C. Lime			-		-			1.		ļ_							Solu		
								ļ ·									tions		
Rece Rece	2	2	2	2	9/	7	9	e	9	2							nc.		
	2	7	2	12.	2	2	12	2	2	21	Date Sampled								
a	T'e	6	6	5	6	C	5	6	9	9									
2 ,		_	5	<u> </u>	0	5	5	č		2			. •						
	027	1224	02	810	015	062	2001	g	603	000	Time Sampled		φ	TI Ø					
		12		00		~	_13	6	W	U			-mai	×					
N					_			-			No. of Containers 20		e-mail: Tim@etechenv.com	Fax No: 432-563-2213					
					Z	Ø			Z	D	Ice		00 00 00 00	2-563					0 7
											HNO ₃	Prese	tech	-2213			1		12800 W. Hwy 80 E Odessa, Texas 79765
											HCI	reservation	lenv	"		l.			W.H. a,Te
	片		片		H			H	H	片	H₂SO₄ NaOH	1&#of</td><td>S M</td><td></td><td></td><td></td><td></td><td></td><td>wy 8</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Na₂S₂O₃</td><td>f Conf</td><td></td><td></td><td></td><td></td><td></td><td></td><td>0 E 7976:</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>None</td><td>Containers</td><td></td><td></td><td></td><td></td><td></td><td></td><td>.</td></tr><tr><td>Date Date</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Ш</td><td>Other (Specify)</td><td></td><td></td><td>· .</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>[]</td><td>U.</td><td>A</td><td>V</td><td>J</td><td>A</td><td>V</td><td>N</td><td>5</td><td>v</td><td>N</td><td>DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid</td><td>Matrix</td><td></td><td><u> </u></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>1</td><td><u> </u></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>NP=Non-Potable Specify Other</td><td>₹</td><td></td><td>Report Format:</td><td></td><td>Ū</td><td></td><td>Pro</td><td></td></tr><tr><td>Time Time</td><td>Z</td><td></td><td></td><td></td><td>Z</td><td></td><td></td><td></td><td></td><td></td><td>TPH: 418.1 8015 1005 10</td><td>06</td><td></td><td>Form</td><td></td><td>Project Loc:</td><td>Рго</td><td>Project Name:</td><td></td></tr><tr><td></td><td>H</td><td></td><td></td><td></td><td>片</td><td>片</td><td></td><td>片</td><td>牌</td><td></td><td>Cations (Ca, Mg, Na, K) Anions (Cl, SO4, CO3, HCO3)</td><td></td><td></td><td>at:</td><td>PO #:</td><td>t Loc</td><td>Project#:</td><td>Vame</td><td></td></tr><tr><td>Laboratory Comments: Sample Containers Intact? VOCs Free of Headspace? Custody seals on container(s) Custody seals on cooler(s) Sample Hand Delivered by Sampler/Client Rep. ? by Courier? UPS D</td><td>片</td><td>旹</td><td>H</td><td>뭄</td><td>冒</td><td>H</td><td>H</td><td>H</td><td>믐</td><td>旹</td><td>SAR / ESP / CEC</td><td>TCLP:</td><td></td><td></td><td> "</td><td> i</td><td>1:-</td><td>FA</td><td></td></tr><tr><td>e Cory Free ly sea ly sea ly sea e Har Samp Count</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Metals: As Ag Ba Cd Cr Pb Hg</td><td></td><td></td><td>Zt.</td><td>` </td><td></td><td>6106</td><td>天</td><td>, TI</td></tr><tr><td>ntaink of Hi als or also or als or als or als or als or als or also o</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Volatiles</td><td></td><td>Ana</td><td>Standard</td><td></td><td>J</td><td>18</td><td>twee</td><td>hon Fa</td></tr><tr><td>nmer eads, n con n coo sliven lient!</td><td>H</td><td>H</td><td></td><td>H</td><td></td><td>믬</td><td>H</td><td></td><td>님</td><td></td><td>Semivolatiles BTEX 8021B/5030 or BTEX 82</td><td></td><td>Analyze</td><td></td><td>, </td><td>5</td><td> "</td><td>11</td><td>Phone: 432-563-2200 Fax: 432-563-2213</td></tr><tr><td>itact: itact: pace' itaine itaine iter(s) ler(s) PS</td><td>H</td><td>旹</td><td></td><td>님</td><td>님</td><td>H</td><td>H</td><td>H</td><td>吕</td><td></td><td>RCI</td><td>~<u></u></td><td>For</td><td>L TRR</td><td>] </td><td>てま</td><td></td><td>6</td><td>32-5i 32-5(</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>N.O.R.M.</td><td></td><td></td><td>R</td><td></td><td></td><td></td><td></td><td>63-2: 53-2:</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Chlorides</td><td></td><td></td><td></td><td>, </td><td></td><td></td><td></td><td>200</td></tr><tr><td>(\$\$\$\$\$</td><td>븯</td><td>믬</td><td>捍</td><td></td><td>무</td><td>몯</td><td></td><td></td><td>띧</td><td></td><td></td><td></td><td></td><td>_ _ ≅</td><td>' </td><td></td><td></td><td></td><td></td></tr><tr><td></td><td>H</td><td>H</td><td>H</td><td>ዙ</td><td>H</td><td>ዙ</td><td>H</td><td>H</td><td>片</td><td>ዙ</td><td></td><td></td><td></td><td>NPDES</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Lone ZZZZZ</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>RUSH TAT (Pre-Schedule) 24,</td><td>48, 72 hrs</td><td>]</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>輕</td><td>V</td><td>Z</td><td>Z</td><td></td><td>4</td><td></td><td></td><td>Z</td><td>L</td><td></td><td>Standard TAT</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>e 23 of</td></tr></tbody></table>							

	Relinquistied by:	Britney Beaty Relinguished by	Special Instructions:			15/2018	14 SP:7	13 50 16	12 Sf 15	- 4014	LAB # (lab use only)	ORDER #: 6 LU LUU C			Sampler Signature:	Telephone No:	City/State/Zip:	Company Address:	Company Name	Project Manager:		Etech Enviro
	2/2/16 U	S(2)6									FIELD CODE))			432-563-2200	Midland, Texas 79708	PO Box 8469	Etech Environmental & Safety Solutions,	Tim McMinn		Environmental & Safety Solutions, Inc
Bush	Time Receive After Ft. Offs.	St Received by:				9/2/16	9/2/16		9/2/16	9/2/16	^γ Date Sampled								Solutions, Inc.			afety Solutio
						1050 NOO		DOUGH OF OF		1030 N	No. of Containers Ice HNO ₃ HCI H ₂ SO ₄	Preservation & # of			e-mail: Tim@etechenv.com	Fax No: 432-563-2213					12800 W. Hwy 80 E Odessa, Texas 79765	ns, inc.
9/2/16		9/2/16	7			%					NaOH Na ₂ S ₂ O ₃ None Other (Specify) DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	&# of Containers Matrix</td><td></td><td></td><td>com</td><td>Report</td><td></td><td></td><td></td><td>P</td><td>wy 80 E xas 79765</td><td>CHAIN</td></tr><tr><td>) 533 Temperature Upon Receipt:</td><td>by Courier?</td><td>Custody seals on contaments) Custody seals on cooler(s) Custody seals on cooler(s) Sample Hand Delivered Sample Hand Delivered Time Time The Custody seals on contaments Sample Hand Delivered Time Time The Custody seals on contaments Custody seals on contaments Custody seals on contaments Custody seals on contaments Custody seals on contements Custody seals on cooler(s)</td><td><u> </u></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>TPH: 418.1 G0150 1005 10 Cations (Ca, Mg, Na, K) Anions (Cl, SO4, CO3, HCO3) SAR / ESP / CEC Metals: As Ag Ba Cd Cr Pb Hg Volatiles Semivolatiles</td><td>ı Se</td><td>TCLP:</td><td>Analyze</td><td></td><td>Report Format: Standard</td><td>PO #:</td><td>Project Loc:</td><td>Project #: 6006</td><td>Project Name: Star</td><td>Phone: ,</td><td>CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST</td></tr><tr><td>13.40 m 9 4 Leceipt</td><td></td><td>\$<i>€0</i></td><td>(O)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>BTEX (0.712) 5030 or BTEX 82 RCI N.O.R.M. Chlorides</td><td></td><td></td><td>e For:</td><td></td><td>☐ TRRP ☐ NPDES</td><td></td><td>てる</td><td></td><td>20</td><td>Phone: 432-563-2200 Fax: 432-563-2213</td><td>AND ANALYSIS REQU</td></tr><tr><td>12</td><td>one Star</td><td>2222</td><td>2 Z Z</td><td></td><td></td><td>A</td><td></td><td></td><td>Z</td><td></td><td>RUSH TAT (Pre-Schedule) 24 Standard TAT</td><td>1, 48,</td><td>72 hrs</td><td></td><td></td><td></td><td></td><td></td><td>F</td><td>age</td><td>24 of</td><td></td></tr></tbody></table>										

PERMIAN BASIN ENVIRONMENTAL LAB, LP 10014 SCR 1213 Midland, TX 79706



Analytical Report

Prepared for:

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

Project: State 20 Release
Project Number: 584-6106-000
Location: SOGO III

Lab Order Number: 5L11009



NELAP/TCEQ # T104704156-13-3

Report Date: 12/14/15

Project: State 20 Release Project Number: 584-6106-000

13000 West County Road 100 Odessa TX, 79765

Project Manager: Tim McMinn

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Stockpile 1	5L11009-01	Soil	12/09/15 13:10	12-11-2015 16:40
Stockpile 2	5L11009-02	Soil	12/09/15 13:10	12-11-2015 16:40
Stockpile 3	5L11009-03	Soil	12/09/15 13:10	12-11-2015 16:40
Stockpile 5	5L11009-04	Soil	12/09/15 13:12	12-11-2015 16:40
Stockpile 8	5L11009-05	Soil	12/09/15 13:20	12-11-2015 16:40
Stockpile 14	5L11009-06	Soil	12/09/15 13:27	12-11-2015 16:40

13000 West County Road 100Project Number:584-6106-000Odessa TX, 79765Project Manager:Tim McMinn

Stockpile 1 5L11009-01 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	ian Basin I	Environmen	ıtal Lab,	L.P.				
General Chemistry Parameters by EPA	Standard Methods	S							
Chloride	242	1.08	mg/kg dry	1	P5L1406	12/14/15	12/14/15	EPA 300.0	
% Moisture	7.0	0.1	%	1	P5L1401	12/14/15	12/14/15	% calculation	
Total Petroleum Hydrocarbons C6-C35 l	by EPA Method 801	15M							
C6-C12	158	134	mg/kg dry	5	P5L1405	12/13/15	12/13/15	TPH 8015M	
>C12-C28	674	134	mg/kg dry	5	P5L1405	12/13/15	12/13/15	TPH 8015M	
>C28-C35	ND	134	mg/kg dry	5	P5L1405	12/13/15	12/13/15	TPH 8015M	
Surrogate: 1-Chlorooctane		93.3 %	70-1.	30	P5L1405	12/13/15	12/13/15	TPH 8015M	
Surrogate: o-Terphenyl		111 %	70-1.	30	P5L1405	12/13/15	12/13/15	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	832	134	mg/kg dry	5	[CALC]	12/13/15	12/13/15	calc	

13000 West County Road 100 Project Number: 584-6106-000 Odessa TX, 79765 Project Manager: Tim McMinn

Stockpile 2 5L11009-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Permi	ian Basin I	Environmen	tal Lab,	L.P.				
General Chemistry Parameters by EP	A / Standard Methods								
Chloride	87.8	1.11	mg/kg dry	1	P5L1406	12/14/15	12/14/15	EPA 300.0	
% Moisture	10.0	0.1	%	1	P5L1401	12/14/15	12/14/15	% calculation	
Total Petroleum Hydrocarbons C6-C3	5 by EPA Method 801	5M							
C6-C12	ND	139	mg/kg dry	5	P5L1405	12/13/15	12/13/15	TPH 8015M	
>C12-C28	313	139	mg/kg dry	5	P5L1405	12/13/15	12/13/15	TPH 8015M	
>C28-C35	ND	139	mg/kg dry	5	P5L1405	12/13/15	12/13/15	TPH 8015M	
Surrogate: 1-Chlorooctane		99.4 %	70-1.	30	P5L1405	12/13/15	12/13/15	TPH 8015M	
Surrogate: o-Terphenyl		117 %	70-1.	30	P5L1405	12/13/15	12/13/15	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	313	139	mg/kg dry	5	[CALC]	12/13/15	12/13/15	calc	

13000 West County Road 100 Project Number: 584-6106-000 Odessa TX, 79765 Project Manager: Tim McMinn

Stockpile 3 5L11009-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin F	Environmen	ıtal Lab, l	L.P.				
General Chemistry Parameters by EP	'A / Standard Method	s							
Chloride	129	1.08	mg/kg dry	1	P5L1406	12/14/15	12/14/15	EPA 300.0	
% Moisture	7.0	0.1	%	1	P5L1401	12/14/15	12/14/15	% calculation	
Total Petroleum Hydrocarbons C6-C3	5 by EPA Method 80	15M							
C6-C12	ND	134	mg/kg dry	5	P5L1405	12/13/15	12/13/15	TPH 8015M	
>C12-C28	1080	134	mg/kg dry	5	P5L1405	12/13/15	12/13/15	TPH 8015M	
>C28-C35	143	134	mg/kg dry	5	P5L1405	12/13/15	12/13/15	TPH 8015M	
Surrogate: 1-Chlorooctane		87.6 %	70-1	30	P5L1405	12/13/15	12/13/15	TPH 8015M	
Surrogate: o-Terphenyl		104 %	70-1	30	P5L1405	12/13/15	12/13/15	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	1220	134	mg/kg dry	5	[CALC]	12/13/15	12/13/15	calc	

13000 West County Road 100 Project Number: 584-6106-000 Odessa TX, 79765 Project Manager: Tim McMinn

Stockpile 5 5L11009-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin I	Environme	ıtal Lab, l	L.P.				
General Chemistry Parameters by EP	A / Standard Method	s							
Chloride	85.5	1.05	mg/kg dry	1	P5L1406	12/14/15	12/14/15	EPA 300.0	
% Moisture	5.0	0.1	%	1	P5L1401	12/14/15	12/14/15	% calculation	
Total Petroleum Hydrocarbons C6-C3	5 by EPA Method 80	15M							
C6-C12	ND	132	mg/kg dry	5	P5L1405	12/13/15	12/13/15	TPH 8015M	
>C12-C28	1080	132	mg/kg dry	5	P5L1405	12/13/15	12/13/15	TPH 8015M	
>C28-C35	155	132	mg/kg dry	5	P5L1405	12/13/15	12/13/15	TPH 8015M	
Surrogate: 1-Chlorooctane		89.1 %	70-1	30	P5L1405	12/13/15	12/13/15	TPH 8015M	
Surrogate: o-Terphenyl		104 %	70-1	30	P5L1405	12/13/15	12/13/15	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	1240	132	mg/kg dry	5	[CALC]	12/13/15	12/13/15	calc	

13000 West County Road 100 Project Number: 584-6106-000 Odessa TX, 79765 Project Manager: Tim McMinn

Stockpile 8 5L11009-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	ian Basin I	Environme	ıtal Lab,	L.P.				
General Chemistry Parameters by EP	A / Standard Method	S							
Chloride	205	1.09	mg/kg dry	1	P5L1406	12/14/15	12/14/15	EPA 300.0	
% Moisture	8.0	0.1	%	1	P5L1401	12/14/15	12/14/15	% calculation	
Total Petroleum Hydrocarbons C6-C3	55 by EPA Method 801	15M							
C6-C12	ND	136	mg/kg dry	5	P5L1405	12/13/15	12/13/15	TPH 8015M	
>C12-C28	682	136	mg/kg dry	5	P5L1405	12/13/15	12/13/15	TPH 8015M	
>C28-C35	ND	136	mg/kg dry	5	P5L1405	12/13/15	12/13/15	TPH 8015M	
Surrogate: 1-Chlorooctane		84.5 %	70-1	30	P5L1405	12/13/15	12/13/15	TPH 8015M	
Surrogate: o-Terphenyl		99.4 %	70-1	30	P5L1405	12/13/15	12/13/15	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	682	136	mg/kg dry	5	[CALC]	12/13/15	12/13/15	calc	

13000 West County Road 100 Project Number: 584-6106-000 Odessa TX, 79765 Project Manager: Tim McMinn

Stockpile 14 5L11009-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Permi	an Basin F	Environmer	ıtal Lab,	L.P.				
General Chemistry Parameters by EPA	Standard Methods								
Chloride	57.6	1.04	mg/kg dry	1	P5L1406	12/14/15	12/14/15	EPA 300.0	
% Moisture	4.0	0.1	%	1	P5L1401	12/14/15	12/14/15	% calculation	
Total Petroleum Hydrocarbons C6-C35 l	oy EPA Method 801	5M							
C6-C12	ND	130	mg/kg dry	5	P5L1405	12/13/15	12/13/15	TPH 8015M	
>C12-C28	1080	130	mg/kg dry	5	P5L1405	12/13/15	12/13/15	TPH 8015M	
>C28-C35	142	130	mg/kg dry	5	P5L1405	12/13/15	12/13/15	TPH 8015M	
Surrogate: 1-Chlorooctane		99.4 %	70-1	30	P5L1405	12/13/15	12/13/15	TPH 8015M	
Surrogate: o-Terphenyl		114 %	70-1	30	P5L1405	12/13/15	12/13/15	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	1230	130	mg/kg dry	5	[CALC]	12/13/15	12/13/15	calc	

13000 West County Road 100

Odessa TX, 79765 Project Manager: Tim McMinn Fax: (432) 563-2213

Project: State 20 Release Project Number: 584-6106-000

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
Anaiyte	Kesuit	Limit	Units	Level	Kesuit	%KEC	Limits	KPD	Limit	Notes
Batch P5L1401 - % Solids										
Blank (P5L1401-BLK1)				Prepared &	Analyzed:	12/14/15				
% Moisture	ND	0.1	%							
Duplicate (P5L1401-DUP1)	Sou	rce: 5L11002-	04	Prepared &	Analyzed:	12/14/15				
% Moisture	8.0	0.1	%		8.0			0.00	20	
Duplicate (P5L1401-DUP2)	Sou	rce: 5L11008-	01	Prepared &	z Analyzed:	12/14/15				
% Moisture	14.0	0.1	%		13.0			7.41	20	
Duplicate (P5L1401-DUP3)	Sou	rce: 5L11011-	04	Prepared &	. Analyzed:	12/14/15				
% Moisture	12.0	0.1	%	-	12.0			0.00	20	
Batch P5L1406 - *** DEFAULT PREP *** Blank (P5L1406-BLK1)				Prepared &	z Analyzed:	12/14/15				
Chloride	ND	1.00	mg/kg wet	1 repared 6	2 maryzea.	12/14/13				
LCS (P5L1406-BS1)				Prepared &	z Analyzed:	12/14/15				
Chloride	199	1.00	mg/kg wet	200		99.5	80-120			
LCS Dup (P5L1406-BSD1)				Prepared &	z Analyzed:	12/14/15				
Chloride	214	1.00	mg/kg wet	200		107	80-120	7.03	20	
Duplicate (P5L1406-DUP1)	Sou	rce: 5L11004-	05	Prepared &	. Analyzed:	12/14/15				
Chloride	ND	1.12	mg/kg dry	-	ND				20	
Matrix Spike (P5L1406-MS1)	Sou	rce: 5L11008-	02	Prepared &	z Analyzed:	12/14/15				
Chloride	ND	1.00	mg/kg dry	200	ND		80-120			

13000 West County Road 100 Project Number: 584-6106-000 Odessa TX, 79765 Project Manager: Tim McMinn

Fax: (432) 563-2213

General Chemistry Parameters by EPA / Standard Methods - Quality Control

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

Permian Basin Environmental Lab, L.P.

Project: State 20 Release

Batch P5L1406 - *** DEFAULT PREP ***

Matrix Spike Dup (P5L1406-MSD1)	Source:	5L11008-02	Prepared &	Analyzed: 1	2/14/15		
Chloride	ND	1.00 mg/kg dry	200	ND	80-120	20	

Project: State 20 Release

13000 West County Road 100

Project Number: 584-6106-000

Odessa TX, 79765

Project Manager: Tim McMinn

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

		Reporting		Spike	Source		%REC		RPD		
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes	
Batch P5L1405 - TX 1005											
Blank (P5L1405-BLK1)				Prepared:	12/13/15 A	nalyzed: 12	/14/15				
C6-C12	ND	25.0	mg/kg wet								
>C12-C28	ND	25.0	"								
>C28-C35	ND	25.0	"								
Surrogate: 1-Chlorooctane	99.5		"	100		99.5	70-130				
Surrogate: o-Terphenyl	56.8		"	50.0		114	70-130				
LCS (P5L1405-BS1)				Prepared:	12/13/15 A	nalyzed: 12	/14/15				
C6-C12	942	25.0	mg/kg wet	1000		94.2	75-125				
>C12-C28	944	25.0	"	1000		94.4	75-125				
Surrogate: 1-Chlorooctane	124		"	100		124	70-130				
Surrogate: o-Terphenyl	56.8		"	50.0		114	70-130				
LCS Dup (P5L1405-BSD1)				Prepared:	12/13/15 A	nalyzed: 12	/14/15				
C6-C12	870	25.0	mg/kg wet	1000		87.0	75-125	8.00	20		
>C12-C28	865	25.0	"	1000		86.5	75-125	8.71	20		
Surrogate: 1-Chlorooctane	117		"	100		117	70-130				
Surrogate: o-Terphenyl	52.6		"	50.0		105	70-130				

13000 West County Road 100 Project Number: 584-6106-000 Odessa TX, 79765 Project Manager: Tim McMinn

Notes and Definitions

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

	Drew	Darron			
Report Approved By:			Date:	12/14/2015	

Brent Barron, Laboratory Director/Technical Director

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

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

	0	120 Mary 800 12/11/15	Relinoughable	Special Instructions:			DU Stockpik 14	W Stockpik &	Dy Stack Piks	DS STOCKPIN 3	100 Stackpile 2	101 Stockpile 1	LAB # (lab use only)	ORDER#: CLIVO	LAB: SPL - Lafayette, LA	Sampler Signature:	Telephone No: 432-563-2200	City/State/Zip: Midland/TX/79708	Company Address: P.O. Box 8469	Company Name Etech Environmental & Safety Solutions, Inc.	Project Manager: Tim M	Etech Environmental & Safety Solutions, Inc.
	Time	440	-										Beginning Depth							ıfety Soluti	Mc Minn	utions
	Received by:						12/9/15	7	12/9/15	12/9/15	12/9 / 15	12/9/15	Ending Depth Date Sampled							ons, Inc.	00	, Inc.
7							1:27pm	1.200m	ma 21. 1	1:10pm	1:10pm	Ma OLI	Time Sampled No. of Containers			e-mail:	Fax No: 432-563-2213					
				•				X						Preservation &		limaletec	-563-2213					P.O. Box 8469 Midland, Texas
													NaOH Na ₂ S ₂ O ₃ None	# of Containers		h-Con						9 as 79708
12/11/5	Date	Date		-									Other (Specify) DW=Drinking Water SL=Sludge	\mathbb{H}								ο
15 m	Time	Time						Z	Z		ZQ.		GW= Groundwater S=Soll/Solid NP=Non-Potable Specify Other TPH: 418.1 8015M 1005 10	Matrix 006]]	Report Format:		Project Loc:	Proj	Project Name:	HAIN OF C
Temperatu	Sample Han by Samp by Courie	Labels on co	Sample Con VOCs Free	Laboratory						\(\overline{\chi}\)			Cations (Ca, Mg, Na, K) Anions (Cl, 604, C03, HC03) SAR / ESP / CEC Metals: As Ag Ba Cd Cr Pb Hg	TOTAL:	ICLP:		at: Standard	PO#: MRMIDY		Project #: 584	lame:	JSTODY RE
Temperature Upon Receipt:	Sample Hand Delivered by Sampler/Client Rep. ? by Courier? UPS	Labels on container(s) Custody seals on container(s) Custody seals on cooler/s)	Sample Containers Intact? VOCs Free of Headspace?	aboratory Comments:									Volatiles Semivolatiles BTEX 80218/5030 or BTEX 826 RCI	B0	Analyze For		andard TRRP	The state of	No.	-2010 -	なせる	ECORD AND ANAL) Phone: 432-563-2200 Fax: 432-563-2213
\$ 2.5 \$	DHL FedE	(S)	~ ×										N.O.R.M. TOC					Pinduchuns		000-0	0	CHAIN OF CUSTODY RECORD AND ANALYSIS REQUE Phone: 432-563-2200 Fax: 432-563-2213
റ്	<u></u>	: zz	zz									7	RUSH TAT (Pre-Schedule) 24H Standard TAT	IOUR			NPDES	· Sun	用多		age	13 of 13