1RP 3674

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

PBELAB

Analytical Report

Prepared for:

Tim McMinn

E Tech Environmental & Safety Solutions, Inc.

13000 West County Road 100

Odessa, TX 79765

Project: State 20 Release

Project Number: 584-6106-000

Location: Jal, NM

Lab Order Number: 6E02003

NELAP ACCREDITED TNI LABORATORY

NELAP/TCEQ # T104704156-13-3

Report Date: 05/12/16

E Tech Environmental & Safety Solutions, Inc.
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

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

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SP1

6E02003-01 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 %*	*75-125*		*P6E0505*	*05/02/16*	*05/02/16*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*73.4 %*	*75-125*		*P6E0505*	*05/02/16*	*05/02/16*	*EPA 8021B*	*S-GC*
General Chemistry Parameters by EPA / Standard Methods									
% Moisture	**1.0**	0.1	%	1	P6E0205	05/02/16	05/03/16	% calculation	

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SP2

6E02003-02 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 %*	*75-125*		*P6E0505*	*05/02/16*	*05/02/16*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*101 %*	*75-125*		*P6E0505*	*05/02/16*	*05/02/16*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
% Moisture	**1.0**	0.1	%	1	P6E0205	05/02/16	05/03/16	% calculation	

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SP3

6E02003-03 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 %*	*75-125*		*P6E0505*	*05/02/16*	*05/02/16*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*79.2 %*	*75-125*		*P6E0505*	*05/02/16*	*05/02/16*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
% Moisture	ND	0.1	%	1	P6E0205	05/02/16	05/03/16	% calculation	

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SP4

6E02003-04 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 %*	*75-125*		*P6E0505*	*05/02/16*	*05/02/16*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*88.5 %*	*75-125*		*P6E0505*	*05/02/16*	*05/02/16*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
% Moisture	ND	0.1	%	1	P6E0406	05/04/16	05/04/16	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
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 %*	*70-130*		*P6E0403*	*05/02/16*	*05/03/16*	*TPH 8015M*	*S-GC*
Surrogate: o-Terphenyl		*95.6 %*	*70-130*		*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	

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SP5

6E02003-05 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 %*	*75-125*		*P6E0505*	*05/02/16*	*05/02/16*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*97.0 %*	*75-125*		*P6E0505*	*05/02/16*	*05/02/16*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
% Moisture	ND	0.1	%	1	P6E0406	05/04/16	05/04/16	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
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 %*	*70-130*		*P6E0403*	*05/02/16*	*05/03/16*	*TPH 8015M*	
Surrogate: o-Terphenyl		*73.5 %*	*70-130*		*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	

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SP6

6E02003-06 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 %*	*75-125*		*P6E0505*	*05/02/16*	*05/02/16*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*109 %*	*75-125*		*P6E0505*	*05/02/16*	*05/02/16*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
% Moisture	**1.0**	0.1	%	1	P6E0406	05/04/16	05/04/16	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
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 %*	*70-130*		*P6E0403*	*05/02/16*	*05/03/16*	*TPH 8015M*	
Surrogate: o-Terphenyl		*83.1 %*	*70-130*		*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	

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SP7

6E02003-07 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 %*	*75-125*		*P6E0505*	*05/02/16*	*05/02/16*	*EPA 8021B*	*S-GC*
Surrogate: 1,4-Difluorobenzene		*78.9 %*	*75-125*		*P6E0505*	*05/02/16*	*05/02/16*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
% Moisture	ND	0.1	%	1	P6E0406	05/04/16	05/04/16	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
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 %*	*70-130*		*P6E0403*	*05/02/16*	*05/03/16*	*TPH 8015M*	
Surrogate: o-Terphenyl		*51.4 %*	*70-130*		*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	

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SP8

6E02003-08 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 %*	*75-125*		*P6E0505*	*05/02/16*	*05/02/16*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*92.5 %*	*75-125*		*P6E0505*	*05/02/16*	*05/02/16*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
% Moisture	**1.0**	0.1	%	1	P6E0205	05/02/16	05/03/16	% calculation	

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SP9

6E02003-09 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 %*	*75-125*		*P6E0505*	*05/02/16*	*05/03/16*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*108 %*	*75-125*		*P6E0505*	*05/02/16*	*05/03/16*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
% Moisture	ND	0.1	%	1	P6E0406	05/04/16	05/04/16	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
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 %*	*70-130*		*P6E0403*	*05/02/16*	*05/03/16*	*TPH 8015M*	
Surrogate: o-Terphenyl		*78.6 %*	*70-130*		*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	

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SP10

6E02003-10 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 %*	*75-125*		*P6E0505*	*05/02/16*	*05/03/16*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*102 %*	*75-125*		*P6E0505*	*05/02/16*	*05/03/16*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
% Moisture	**1.0**	0.1	%	1	P6E0406	05/04/16	05/04/16	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
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 %*	*70-130*		*P6E0403*	*05/02/16*	*05/03/16*	*TPH 8015M*	
Surrogate: o-Terphenyl		*81.0 %*	*70-130*		*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	

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SP11

6E02003-11 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 %*	*75-125*		*P6E0505*	*05/02/16*	*05/02/16*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*114 %*	*75-125*		*P6E0505*	*05/02/16*	*05/02/16*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
% Moisture	ND	0.1	%	1	P6E0406	05/04/16	05/04/16	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
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 %*	*70-130*		*P6E0403*	*05/02/16*	*05/03/16*	*TPH 8015M*	
Surrogate: o-Terphenyl		*97.1 %*	*70-130*		*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	

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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

SP12

6E02003-12 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 %*	*75-125*		*P6E0505*	*05/02/16*	*05/03/16*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*110 %*	*75-125*		*P6E0505*	*05/02/16*	*05/03/16*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
% Moisture	ND	0.1	%	1	P6E0406	05/04/16	05/04/16	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
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 %*	*70-130*		*P6E0403*	*05/02/16*	*05/03/16*	*TPH 8015M*	
Surrogate: o-Terphenyl		*76.3 %*	*70-130*		*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	

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SP13

6E02003-13 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 %*	*75-125*		*P6E0505*	*05/02/16*	*05/03/16*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*92.2 %*	*75-125*		*P6E0505*	*05/02/16*	*05/03/16*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
% Moisture	ND	0.1	%	1	P6E0406	05/04/16	05/04/16	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
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 %*	*70-130*		*P6E0403*	*05/02/16*	*05/03/16*	*TPH 8015M*	
Surrogate: o-Terphenyl		*44.6 %*	*70-130*		*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	

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SP14

6E02003-14 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 %*	*75-125*		*P6E0505*	*05/02/16*	*05/02/16*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*98.8 %*	*75-125*		*P6E0505*	*05/02/16*	*05/02/16*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
% Moisture	**1.0**	0.1	%	1	P6E0205	05/02/16	05/03/16	% calculation	

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Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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)	**Source: 6E02003-13**			Prepared: 05/02/16 Analyzed: 05/03/16						
Benzene	0.0711	0.00100	mg/kg dry	0.100	ND	71.1	80-120			QM-07
Toluene	0.0640	0.00200	"	0.100	ND	64.0	80-120			QM-07
Ethylbenzene	0.0596	0.00100	"	0.100	ND	59.6	80-120			QM-07
Xylene (p/m)	0.0950	0.00200	"	0.200	ND	47.5	80-120			QM-07
Xylene (o)	0.0506	0.00100	"	0.100	ND	50.6	80-120			QM-07
Surrogate: 4-Bromofluorobenzene	*0.0629*		*"*	*0.0600*		*105*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.0674*		*"*	*0.0600*		*112*	*75-125*			

Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6E0505 - General Preparation (GC)										
Matrix Spike Dup (P6E0505-MSD1)	**Source: 6E02003-13**			Prepared: 05/02/16 Analyzed: 05/03/16						
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*			

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

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General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6E0406 - * DEFAULT PREP *** **										
Duplicate (P6E0406-DUP6)		**Source: 6E02003-13**		Prepared & Analyzed: 05/04/16						
% Moisture	ND	0.1	%		ND				20	

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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6E0403 - TX 1005										
Blank (P6E0403-BLK1)				Prepared: 05/02/16 Analyzed: 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 Analyzed: 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 Analyzed: 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*			

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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

Report Approved By: Brent Barron Date: 5/12/2016

Brent Barron, Laboratory Director/Technical Director

Etech Environmental & Safety Solutions, Inc.

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUES

12800 W. Hwy 80 E
Odessa, Texas 79765

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

Project Manager: Tim McMinn

Project Name: State 20

Company Name: Etech Environmental & Safety Solutions, Inc.

Project #: 584-6106

Company Address: PO Box 8469

Project Loc: ~~Endeavor~~ Jal, NM

City/State/Zip: Midland, Texas 79708

PO #:

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

Report Format: ☐ Standard ☐ TRRP ☐ NPDES

Sampler Signature:

e-mail: tim@etechenv.com

(lab use only)

ORDER #: 1002008

LAB # (lab use only)	FIELD CODE			Date Sampled	Time Sampled	No. of Containers	Preservation & # of Containers: Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge	GW = Groundwater S=Soil/Solid	NP=Non-Potable Specify Other	Analyze For: TCLP: TPH: 418.1 (8015M) 1005 1006	TOTAL: TPH: 418.1 (8015M) 1005 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, CO3, HCO3)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides				RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
01	SP1			4/18	1000	1	☑	☐	☐	☐	☐	☐	☐	☐	S			☐	☐	☐	☐	☐	☐	☐	☒	☐	☐	☐	☐	☐	☐	☐	☒
02	SP2			4/18	1003	1	☑	☐	☐	☐	☐	☐	☐	☐	S			☐	☐	☐	☐	☐	☐	☐	☒	☐	☐	☐	☐	☐	☐	☐	☒
03	SP3			4/18	1006	1	☑	☐	☐	☐	☐	☐	☐	☐	S			☐	☐	☐	☐	☐	☐	☐	☒	☐	☐	☐	☐	☐	☐	☐	☒
04	SP4			4/28	1615	1	☑	☐	☐	☐	☐	☐	☐	☐	S			☒	☐	☐	☐	☐	☐	☐	☒	☐	☐	☐	☐	☐	☐	☐	☒
05	SP5			4/28	1617	1	☑	☐	☐	☐	☐	☐	☐	☐	S			☒	☐	☐	☐	☐	☐	☐	☒	☐	☐	☐	☐	☐	☐	☐	☒
06	SP6			4/28	1619	1	☑	☐	☐	☐	☐	☐	☐	☐	S			☒	☐	☐	☐	☐	☐	☐	☒	☐	☐	☐	☐	☐	☐	☐	☒
07	SP7			4/28	1621	1	☑	☐	☐	☐	☐	☐	☐	☐	S			☒	☐	☐	☐	☐	☐	☐	☒	☐	☐	☐	☐	☐	☐	☐	☒
08	SP8			4/18	1023	1	☑	☐	☐	☐	☐	☐	☐	☐	S			☐	☐	☐	☐	☐	☐	☐	☒	☐	☐	☐	☐	☐	☐	☐	☒
09	SP9			4/28	1625	1	☑	☐	☐	☐	☐	☐	☐	☐	S			☒	☐	☐	☐	☐	☐	☐	☒	☐	☐	☐	☐	☐	☐	☐	☒
10	SP10			4/28	1627	1	☑	☐	☐	☐	☐	☐	☐	☐	S			☒	☐	☐	☐	☐	☐	☐	☒	☐	☐	☐	☐	☐	☐	☐	☒

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
~~Britney Beaty~~	4/29	15:41			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT:	4-29-16	16:45

Laboratory Comments:

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

Temperature Upon Receipt: °C

Etech Environmental & Safety Solutions, Inc.

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12800 W. Hwy 80 E
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Project Manager: Tim McMahon
Project Name: Stoz 20
Company Name: Etech Environmental & Safety Solutions, Inc.
Project #: 584-6106
Company Address: PO Box 8469
Project Loc: ~~Endeavor~~ Jal, NM
City/State/Zip: Midland, Texas 79708
PO #:
Telephone No: 432-563-2200 Fax No: 432-563-2213
Report Format: ☐ Standard ☐ TRRP ☐ NPDES
Sampler Signature:
e-mail: tim@etechenv.com

(lab use only)
ORDER #: 10E02023

LAB # (lab use only)	FIELD CODE			Date Sampled	Time Sampled	No. of Containers	Preservation & # of Containers: Ice	HNO3	HCl	H2SO4	NaOH	Na2S2O3	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge	GW = Groundwater S=Soil/Solid	NP=Non-Potable Specify Other	Analyze For: TCLP: TPH: 418.1	8015M	1005	1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, CO3, HCO3)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
1	SP11			4/28	1630	1									S																		
2	SP12			4/28	1633	1									S																		
3	SP13			4/28	1636	1									S																		
4	SP14			4/28	1039	1									S																		

Special Instructions:

Relinquished by: ~~Britney Beaty~~	Date 4/29	Time 15:41	Received by:	Date	Time	
Relinquished by:	Date	Time	Received by:	Date	Time	
Relinquished by:	Date	Time	Received by ELOT:	Date 4-29-10	Time 16:45	

Laboratory Comments:

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

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt: °C

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

PBELAB

Analytical Report

Prepared for:

Tim McMinn

E Tech Environmental & Safety Solutions, Inc.

13000 West County Road 100

Odessa, TX 79765

Project: State 20 Release

Project Number: 584-6106-000

Location: Jal, NM

Lab Order Number: 6I02002

NELAP ACCREDITED TNI LABORATORY

NELAP/TCEQ # T104704156-13-3

Report Date: 09/08/16

E Tech Environmental & Safety Solutions, Inc.
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

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	6I02002-02	Soil	09/02/16 10:03	09-02-2016 15:30
SP5	6I02002-03	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	6I02002-05	Soil	09/02/16 10:12	09-02-2016 15:30
SP9	6I02002-06	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	6I02002-08	Soil	09/02/16 10:21	09-02-2016 15:30
SP12	6I02002-09	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

E Tech Environmental & Safety Solutions, Inc.
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SP3

6I02002-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
% Moisture	**15.0**	0.1	%	1	P6I0701	09/07/16	09/07/16	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
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	

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SP4

6I02002-02 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
General Chemistry Parameters by EPA / Standard Methods									
% 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	
>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	

E Tech Environmental & Safety Solutions, Inc.
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SP5

6I02002-03 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
General Chemistry Parameters by EPA / Standard Methods									
% Moisture	**16.0**	0.1	%	1	P6I0701	09/07/16	09/07/16	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
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	

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SP6

6I02002-04 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
General Chemistry Parameters by EPA / Standard Methods									
% Moisture	**14.0**	0.1	%	1	P6I0701	09/07/16	09/07/16	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
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	

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SP7

6I02002-05 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
General Chemistry Parameters by EPA / Standard Methods									
% Moisture	**16.0**	0.1	%	1	P6I0701	09/07/16	09/07/16	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
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	

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SP9

6I02002-06 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
General Chemistry Parameters by EPA / Standard Methods									
% 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	
>C12-C28	**32.0**	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		*78.4 %*	*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	**32.0**	28.7	mg/kg dry	1	[CALC]	09/06/16	09/06/16	calc	

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SP10

6I02002-07 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
General Chemistry Parameters by EPA / Standard Methods									
% Moisture	**17.0**	0.1	%	1	P6I0701	09/07/16	09/07/16	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
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	

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SP11

6I02002-08 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
General Chemistry Parameters by EPA / Standard Methods									
% 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	
>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	

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SP12

6I02002-09 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
General Chemistry Parameters by EPA / Standard Methods									
% Moisture	**12.0**	0.1	%	1	P6I0701	09/07/16	09/07/16	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	28.4	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	

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SP13

6I02002-10 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
General Chemistry Parameters by EPA / Standard Methods									
% 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	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 C6-C35	**96.7**	28.7	mg/kg dry	1	[CALC]	09/06/16	09/07/16	calc	

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SP14

6I02002-11 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
General Chemistry Parameters by EPA / Standard Methods									
% Moisture	**14.0**	0.1	%	1	P6I0701	09/07/16	09/07/16	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
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	

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SP15

6I02002-12 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 %*	*75-125*		*P6I0603*	*09/02/16*	*09/02/16*	*EPA 8021B*	*S-GC*
Surrogate: 4-Bromofluorobenzene		*100 %*	*75-125*		*P6I0603*	*09/02/16*	*09/02/16*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
% Moisture	**8.0**	0.1	%	1	P6I0701	09/07/16	09/07/16	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
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 %*	*70-130*		*P6I0703*	*09/06/16*	*09/07/16*	*TPH 8015M*	
Surrogate: o-Terphenyl		*104 %*	*70-130*		*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	

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SP16

6I02002-13 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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: 1,4-Difluorobenzene		*135 %*	*75-125*		*P6I0603*	*09/02/16*	*09/02/16*	*EPA 8021B*	*S-GC*
Surrogate: 4-Bromofluorobenzene		*95.6 %*	*75-125*		*P6I0603*	*09/02/16*	*09/02/16*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
% Moisture	**10.0**	0.1	%	1	P6I0701	09/07/16	09/07/16	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
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	
Surrogate: 1-Chlorooctane		*83.1 %*	*70-130*		*P6I0703*	*09/06/16*	*09/07/16*	*TPH 8015M*	
Surrogate: o-Terphenyl		*108 %*	*70-130*		*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	

E Tech Environmental & Safety Solutions, Inc.
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

SP17

6I02002-14 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 %*	*75-125*		*P6I0603*	*09/02/16*	*09/02/16*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*137 %*	*75-125*		*P6I0603*	*09/02/16*	*09/02/16*	*EPA 8021B*	*S-GC*
General Chemistry Parameters by EPA / Standard Methods									
% Moisture	**9.0**	0.1	%	1	P6I0701	09/07/16	09/07/16	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
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 %*	*70-130*		*P6I0703*	*09/06/16*	*09/07/16*	*TPH 8015M*	
Surrogate: o-Terphenyl		*107 %*	*70-130*		*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	

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Odessa TX, 79765

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

Fax: (432) 563-2213

SP18

6I02002-15 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 %*	*75-125*		*P6I0603*	*09/02/16*	*09/02/16*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*146 %*	*75-125*		*P6I0603*	*09/02/16*	*09/02/16*	*EPA 8021B*	*S-GC*
General Chemistry Parameters by EPA / Standard Methods									
% Moisture	**10.0**	0.1	%	1	P6I0701	09/07/16	09/07/16	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
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 %*	*70-130*		*P6I0703*	*09/06/16*	*09/07/16*	*TPH 8015M*	
Surrogate: o-Terphenyl		*174 %*	*70-130*		*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	

E Tech Environmental & Safety Solutions, Inc.
13000 West County Road 100
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Project: State 20 Release
Project Number: 584-6106-000
Project Manager: Tim McMinn

Fax: (432) 563-2213

Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6I0603 - General Preparation (GC)										
Blank (P6I0603-BLK1)				Prepared & Analyzed: 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 & Analyzed: 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 & Analyzed: 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)	**Source: 6I01003-14**			Prepared: 09/02/16 Analyzed: 09/05/16						
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	"		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*			

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

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

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General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6I0701 - * DEFAULT PREP *** **										
Blank (P6I0701-BLK1)				Prepared & Analyzed: 09/07/16						
% Moisture	ND	0.1	%							
Duplicate (P6I0701-DUP1)		**Source: 6I01003-14**		Prepared & Analyzed: 09/07/16						
% Moisture	10.0	0.1	%		10.0			0.00	20	
Duplicate (P6I0701-DUP2)		**Source: 6H31002-01**		Prepared & Analyzed: 09/07/16						
% Moisture	7.0	0.1	%		8.0			13.3	20	
Duplicate (P6I0701-DUP3)		**Source: 6I02002-15**		Prepared & Analyzed: 09/07/16						
% Moisture	9.0	0.1	%		10.0			10.5	20	
Duplicate (P6I0701-DUP4)		**Source: 6I06001-09**		Prepared & Analyzed: 09/07/16						
% Moisture	4.0	0.1	%		4.0			0.00	20	

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 P6I0703 - TX 1005										
Blank (P6I0703-BLK1)				Prepared: 09/06/16 Analyzed: 09/07/16						
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 Analyzed: 09/07/16						
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 Analyzed: 09/07/16						
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-GC*
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*			

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 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)		**Source: 6I02001-10**		Prepared: 09/06/16 Analyzed: 09/07/16						
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)		**Source: 6I02001-10**		Prepared: 09/06/16 Analyzed: 09/07/16						
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*			

Notes and Definitions

S-GC	Surrogate recovery outside of control limits. The data was accepted based on valid 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
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Brent Barron Date: 9/8/2016

Brent Barron, Laboratory Director/Technical Director

Etech Environmental & Safety Solutions, Inc.

12800 W. Hwy 80 E
Odessa, Texas 79765
Phone: 432-563-2200
Fax: 432-563-2213

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Tim McMinn
Company Name: Etech Environmental & Safety Solutions, Inc.
Company Address: PO Box 8469
City/State/Zip: Midland, Texas 79708
Telephone No: 432-563-2200 Fax No: 432-563-2213
Sampler Signature:
e-mail: Tim@etechenv.com

Project Name: State 20
Project #: 6106
Project Loc: EJ, NM
PO #:
Report Format: ☐ Standard ☐ TRRP ☐ NPDES

(lab use only) ORDER #: 610200 2

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservation & # of Containers: Ice	HNO3	HCl	H2SO4	NaOH	Na2S2O3	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Analyze For: TPH: 418.1 / 8015	Cations (Ca, Mg, Na, K) 1005 1006	Anions (Cl, SO4, CO3, HCO3)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
1	SP3	9/2/16	1000	1									S													
2	SP4	9/2/16	1003	1									S													
3	SP5	9/2/16	1006	1									S													
4	SP6	9/2/16	1009	1									S													
5	SP7	9/2/16	1012	1									S													
6	SP9	9/2/16	1015	1									S													
7	SP10	9/2/16	1018	1									S													
8	SP11	9/2/16	1021	1									S													
9	SP12	9/2/16	1024	1									S													
10	SP13	9/2/16	1027	1									S													

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
Britney Beaty	9/2/16	1345		9/2/16	1400
	9/2/16	1530			
			Received by ELOT:	9/2/16	1530

Laboratory Comments:

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

Temperature Upon Receipt: 6.0 °C

Etech Environmental & Safety Solutions, Inc.

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12800 W. Hwy 80 E
Odessa, Texas 79765

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

Project Manager: Tim McMinn
Company Name: Etech Environmental & Safety Solutions, Inc.
Company Address: PO Box 8469
City/State/Zip: Midland, Texas 79708
Telephone No: 432-563-2200
Fax No: 432-563-2213
Sampler Signature: [signature]
e-mail: Tim@etechenv.com

Project Name: State 20
Project #: 6106
Project Loc: JD, NM
PO #:
Report Format: ☐ Standard ☐ TRRP ☐ NPDES

(lab use only)
ORDER #: 6I02002

LAB # (lab use only)	FIELD CODE			Date Sampled	Time Sampled	No. of Containers (2 02)	Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix (DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other)	TPH: 418.1 (8015M) 1005 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, CO3, HCO3)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX (8021B)/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
11	SP14			9/2/16	1030	1	✓								S	✓												✓
12	SP15			9/2/16	1035	1	✓								S	✓							✓					✓
13	SP16			9/2/16	1040	1	✓								S	✓							✓					✓
14	SP17			9/2/16	1045	1	✓								S	✓							✓					✓
15	SP18			9/2/16	1050	1	✓								S	✓							✓					✓

Analyze For: TCLP: ☐☐☐☐ TOTAL: ☐☐☐☐

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
Britney Beaty	9/2/16	1345	[signature]	9/2/16	1400
[signature]	9/2/16	1530			
			Received by ELOT: [signature]	9/2/16	1530

Laboratory Comments:
Sample Containers Intact? (Y) N
VOCs Free of Headspace? (Y) N
Custody seals on container(s) (Y) N
Custody seals on cooler(s) (Y) N
Sample Hand Delivered (Y) N
by Sampler/Client Rep. ? (Y) N
by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt: 6.0 NCF °C 21

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

PBELAB

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

E Tech Environmental & Safety Solutions, Inc.
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

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

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13000 West County Road 100
Odessa TX, 79765

Project: State 20 Release
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Project Manager: Tim McMinn

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Stockpile 1

5L11009-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**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 by EPA Method 8015M									
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 %*	*70-130*		*P5L1405*	*12/13/15*	*12/13/15*	*TPH 8015M*	
Surrogate: o-Terphenyl		*111 %*	*70-130*		*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	

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Stockpile 2

5L11009-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**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-C35 by EPA Method 8015M									
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 %*	*70-130*		*P5L1405*	*12/13/15*	*12/13/15*	*TPH 8015M*	
Surrogate: o-Terphenyl		*117 %*	*70-130*		*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	

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Stockpile 3

5L11009-03 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**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-C35 by EPA Method 8015M									
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 %*	*70-130*		*P5L1405*	*12/13/15*	*12/13/15*	*TPH 8015M*	
Surrogate: o-Terphenyl		*104 %*	*70-130*		*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	

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Stockpile 5

5L11009-04 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**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-C35 by EPA Method 8015M									
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 %*	*70-130*		*P5L1405*	*12/13/15*	*12/13/15*	*TPH 8015M*	
Surrogate: o-Terphenyl		*104 %*	*70-130*		*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	

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Stockpile 8

5L11009-05 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**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-C35 by EPA Method 8015M									
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 %*	*70-130*		*P5L1405*	*12/13/15*	*12/13/15*	*TPH 8015M*	
Surrogate: o-Terphenyl		*99.4 %*	*70-130*		*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	

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Stockpile 14

5L11009-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**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 by EPA Method 8015M									
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 %*	*70-130*		*P5L1405*	*12/13/15*	*12/13/15*	*TPH 8015M*	
Surrogate: o-Terphenyl		*114 %*	*70-130*		*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	

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 P5L1401 - % Solids										
Blank (P5L1401-BLK1)				Prepared & Analyzed: 12/14/15						
% Moisture	ND	0.1	%							
Duplicate (P5L1401-DUP1)		**Source: 5L11002-04**		Prepared & Analyzed: 12/14/15						
% Moisture	8.0	0.1	%		8.0			0.00	20	
Duplicate (P5L1401-DUP2)		**Source: 5L11008-01**		Prepared & Analyzed: 12/14/15						
% Moisture	14.0	0.1	%		13.0			7.41	20	
Duplicate (P5L1401-DUP3)		**Source: 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 & Analyzed: 12/14/15						
Chloride	ND	1.00	mg/kg wet							
LCS (P5L1406-BS1)				Prepared & Analyzed: 12/14/15						
Chloride	199	1.00	mg/kg wet	200		99.5	80-120			
LCS Dup (P5L1406-BSD1)				Prepared & Analyzed: 12/14/15						
Chloride	214	1.00	mg/kg wet	200		107	80-120	7.03	20	
Duplicate (P5L1406-DUP1)		**Source: 5L11004-05**		Prepared & Analyzed: 12/14/15						
Chloride	ND	1.12	mg/kg dry		ND				20	
Matrix Spike (P5L1406-MS1)		**Source: 5L11008-02**		Prepared & Analyzed: 12/14/15						
Chloride	ND	1.00	mg/kg dry	200	ND		80-120			

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 P5L1406 - * DEFAULT PREP *** **										
Matrix Spike Dup (P5L1406-MSD1)	**Source: 5L11008-02**			Prepared & Analyzed: 12/14/15						
Chloride	ND	1.00	mg/kg dry	200	ND		80-120		20	

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 P5L1405 - TX 1005										
Blank (P5L1405-BLK1)				Prepared: 12/13/15 Analyzed: 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 Analyzed: 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 Analyzed: 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*			

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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

Report Approved By: Brent Barron Date: 12/14/2015

Brent Barron, Laboratory Director/Technical Director

Etech Environmental & Safety Solutions, Inc.

P.O. Box 8469
Midland, Texas 79708

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUE
Phone: 432-563-2200
Fax: 432-563-2213

Project Manager: Tim McMinn
Company Name: Etech Environmental & Safety Solutions, Inc.
Company Address: P.O. Box 8469
City/State/Zip: Midland/TX/79708
Telephone No: 432-563-2200
Fax No: 432-563-2213
Sampler Signature:
e-mail: Tim@etech.com

Project Name: State 20
Project #: 584-6106-000
Project Loc: SOGO III
PO #: Memorial Productions.
Report Format: [x] Standard [ ] TRRP [ ] NPDES

LAB: SPL - Lafayette, LA
ORDER #: SL11009

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	No. of Containers	Preservation: Ice	Matrix	TPH: 418.1 (8015M) 1005 1006	Anions (Cl, SO4, CO3, HCO3)	RUSH TAT (Pre-Schedule) 24HOUR	Standard TAT
01	Stockpile 1			12/9/15	1:10 pm		X		✓	✓	✓	
02	Stockpile 2			12/9/15	1:10pm		X		✓	✓	✓	
03	Stockpile 3			12/9/15	1:10pm		X		✓	✓	✓	
04	Stockpile 5			12/9/15	1:12pm		X		✓	✓	✓	
05	Stockpile 8			12/9/15	1:20pm		X		✓	✓	✓	
06	Stockpile 14			12/9/15	1:27pm		X		✓	✓	✓	

Other columns (unchecked): Preservation: HNO3, HCl, H2SO4, NaOH, Na2S2O3, None, Other (Specify); Matrix: DW=Drinking Water SL=Sludge, GW=Groundwater S=Soil/Solid, NP=Non-Potable Specify Other; Analyze For (TCLP / TOTAL): Cations (Ca, Mg, Na, K), SAR / ESP / CEC, Metals: As Ag Ba Cd Cr Pb Hg Se, Volatiles, Semivolatiles, BTEX 8021B/5030 or BTEX 8260, RCI, N.O.R.M., TOC

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
Brittney Beary	12/11/15	440			
			[signature]	12/11/15	1640

Laboratory Comments:
Sample Containers Intact? Y N
VOCs Free of Headspace? Y N
Labels on container(s) Y N
Custody seals on container(s) Y N
Custody seals on cooler(s) Y N
Sample Hand Delivered Y N
by Sampler/Client Rep. ? Y N
by Courier? UPS DHL FedEx Lone Star
Temperature Upon Receipt: 2.5 °C