

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



Analytical Report

Prepared for:

Coty Woolf
Charger Services
P.O. Box 53070
Midland, TX 79710

Project: New Kumet
Project Number: [none]
Location: New Mexico

Lab Order Number: 6F17001



NELAP/TCEQ # T104704156-13-3

Report Date: 06/30/16

Charger Services
P.O. Box 53070
Midland TX, 79710

Project: New Kumet
Project Number: [none]
Project Manager: Coty Woolf

Fax: (432) 695-6247

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-1 0-1	6F17001-01	Soil	06/07/16 05:00	06-17-2016 08:15
SS-1 1-2	6F17001-02	Soil	06/07/16 05:10	06-17-2016 08:15
SS-1 2-3	6F17001-03	Soil	06/07/16 05:20	06-17-2016 08:15
SS-1 5-6	6F17001-04	Soil	06/07/16 05:30	06-17-2016 08:15
SS-1 10-11	6F17001-05	Soil	06/07/16 05:35	06-17-2016 08:15
SS-2 0-1	6F17001-06	Soil	06/07/16 05:40	06-17-2016 08:15
SS-2 1-2	6F17001-07	Soil	06/07/16 05:45	06-17-2016 08:15
SS-2 2-3	6F17001-08	Soil	06/07/16 05:50	06-17-2016 08:15
SS-2 5-6	6F17001-09	Soil	06/07/16 05:55	06-17-2016 08:15
SS-2 10-11	6F17001-10	Soil	06/07/16 06:00	06-17-2016 08:15
SS-3 0-1	6F17001-11	Soil	06/07/16 06:20	06-17-2016 08:15
SS-3 1-2	6F17001-12	Soil	06/07/16 06:30	06-17-2016 08:15
SS-3 2-3	6F17001-13	Soil	06/07/16 06:40	06-17-2016 08:15
SS-3 5-6	6F17001-14	Soil	06/07/16 06:50	06-17-2016 08:15
SS-3 10-11	6F17001-15	Soil	06/07/16 07:00	06-17-2016 08:15
SS-4 0-1	6F17001-16	Soil	06/07/16 07:10	06-17-2016 08:15
SS-4 1-2	6F17001-17	Soil	06/07/16 07:20	06-17-2016 08:15
SS-4 2-3	6F17001-18	Soil	06/07/16 07:30	06-17-2016 08:15
SS-4 5-6	6F17001-19	Soil	06/07/16 07:40	06-17-2016 08:15
SS-4 10-11	6F17001-20	Soil	06/07/16 07:45	06-17-2016 08:15
SS-5 0-1	6F17001-21	Soil	06/07/16 07:50	06-17-2016 08:15
SS-5 1-2	6F17001-22	Soil	06/07/16 08:00	06-17-2016 08:15
SS-5 2-3	6F17001-23	Soil	06/07/16 08:10	06-17-2016 08:15
SS-5 5-6	6F17001-24	Soil	06/07/16 08:20	06-17-2016 08:15
SS-6 0-1	6F17001-25	Soil	06/07/16 08:30	06-17-2016 08:15
SS-6 1-2	6F17001-26	Soil	06/07/16 08:40	06-17-2016 08:15
SS-6 2-3	6F17001-27	Soil	06/07/16 08:50	06-17-2016 08:15
SS-6 5-6	6F17001-28	Soil	06/07/16 09:00	06-17-2016 08:15

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SS-1 0-1
6F17001-01 (Soil)

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

Organics by GC

Benzene	ND	0.532	mg/kg dry	500	P6F2019	06/19/16	06/20/16	EPA 8021B
Toluene	ND	1.06	mg/kg dry	500	P6F2019	06/19/16	06/20/16	EPA 8021B
Ethylbenzene	ND	0.532	mg/kg dry	500	P6F2019	06/19/16	06/20/16	EPA 8021B
Xylene (p/m)	6.72	1.06	mg/kg dry	500	P6F2019	06/19/16	06/20/16	EPA 8021B
Xylene (o)	0.894	0.532	mg/kg dry	500	P6F2019	06/19/16	06/20/16	EPA 8021B
<i>Surrogate: 4-Bromofluorobenzene</i>		120 %	75-125		P6F2019	06/19/16	06/20/16	EPA 8021B
<i>Surrogate: 1,4-Difluorobenzene</i>		87.5 %	75-125		P6F2019	06/19/16	06/20/16	EPA 8021B

General Chemistry Parameters by EPA / Standard Methods

Chloride	122	1.06	mg/kg dry	1	P6F2016	06/20/16	06/20/16	EPA 300.0
% Moisture	6.0	0.1	%	1	P6F2002	06/20/16	06/20/16	% calculation

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	1710	266	mg/kg dry	10	P6F2003	06/17/16	06/17/16	TPH 8015M
>C12-C28	18800	266	mg/kg dry	10	P6F2003	06/17/16	06/17/16	TPH 8015M
>C28-C35	2190	266	mg/kg dry	10	P6F2003	06/17/16	06/17/16	TPH 8015M
<i>Surrogate: 1-Chlorooctane</i>		105 %	70-130		P6F2003	06/17/16	06/17/16	TPH 8015M
<i>Surrogate: o-Terphenyl</i>		111 %	70-130		P6F2003	06/17/16	06/17/16	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	22700	266	mg/kg dry	10	[CALC]	06/17/16	06/17/16	calc

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SS-1 1-2
6F17001-02 (Soil)

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

Organics by GC

Benzene	0.335	0.284	mg/kg dry	250	P6F2019	06/19/16	06/20/16	EPA 8021B
Toluene	1.84	0.568	mg/kg dry	250	P6F2019	06/19/16	06/20/16	EPA 8021B
Ethylbenzene	ND	0.284	mg/kg dry	250	P6F2019	06/19/16	06/20/16	EPA 8021B
Xylene (p/m)	11.0	0.568	mg/kg dry	250	P6F2019	06/19/16	06/20/16	EPA 8021B
Xylene (o)	1.49	0.284	mg/kg dry	250	P6F2019	06/19/16	06/20/16	EPA 8021B
<i>Surrogate: 1,4-Difluorobenzene</i>		96.7 %	75-125		P6F2019	06/19/16	06/20/16	EPA 8021B
<i>Surrogate: 4-Bromofluorobenzene</i>		78.2 %	75-125		P6F2019	06/19/16	06/20/16	EPA 8021B

General Chemistry Parameters by EPA / Standard Methods

Chloride	112	1.14	mg/kg dry	1	P6F2016	06/20/16	06/20/16	EPA 300.0
% Moisture	12.0	0.1	%	1	P6F2002	06/20/16	06/20/16	% calculation

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	1740	142	mg/kg dry	5	P6F2003	06/17/16	06/17/16	TPH 8015M
>C12-C28	8500	142	mg/kg dry	5	P6F2003	06/17/16	06/17/16	TPH 8015M
>C28-C35	1000	142	mg/kg dry	5	P6F2003	06/17/16	06/17/16	TPH 8015M
<i>Surrogate: 1-Chlorooctane</i>		110 %	70-130		P6F2003	06/17/16	06/17/16	TPH 8015M
<i>Surrogate: o-Terphenyl</i>		93.8 %	70-130		P6F2003	06/17/16	06/17/16	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	11200	142	mg/kg dry	5	[CALC]	06/17/16	06/17/16	calc

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SS-1 2-3
6F17001-03 (Soil)

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

Organics by GC

Benzene	ND	0.110	mg/kg dry	100	P6F2019	06/19/16	06/20/16	EPA 8021B	
Toluene	1.22	0.220	mg/kg dry	100	P6F2019	06/19/16	06/20/16	EPA 8021B	
Ethylbenzene	ND	0.110	mg/kg dry	100	P6F2019	06/19/16	06/20/16	EPA 8021B	
Xylene (p/m)	13.4	0.220	mg/kg dry	100	P6F2019	06/19/16	06/20/16	EPA 8021B	
Xylene (o)	1.47	0.110	mg/kg dry	100	P6F2019	06/19/16	06/20/16	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		117 %	75-125		P6F2019	06/19/16	06/20/16	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		92.6 %	75-125		P6F2019	06/19/16	06/20/16	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	345	5.49	mg/kg dry	5	P6F2016	06/20/16	06/20/16	EPA 300.0	
% Moisture	9.0	0.1	%	1	P6F2002	06/20/16	06/20/16	% calculation	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	2020	137	mg/kg dry	5	P6F2003	06/17/16	06/18/16	TPH 8015M	
>C12-C28	9720	137	mg/kg dry	5	P6F2003	06/17/16	06/18/16	TPH 8015M	
>C28-C35	1190	137	mg/kg dry	5	P6F2003	06/17/16	06/18/16	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		116 %	70-130		P6F2003	06/17/16	06/18/16	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		120 %	70-130		P6F2003	06/17/16	06/18/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	12900	137	mg/kg dry	5	[CALC]	06/17/16	06/18/16	calc	

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SS-1 5-6
6F17001-04 (Soil)

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

Organics by GC

Benzene	ND	0.00110	mg/kg dry	1	P6F2019	06/19/16	06/20/16	EPA 8021B	
Toluene	0.00467	0.00220	mg/kg dry	1	P6F2019	06/19/16	06/20/16	EPA 8021B	
Ethylbenzene	0.0241	0.00110	mg/kg dry	1	P6F2019	06/19/16	06/20/16	EPA 8021B	
Xylene (p/m)	0.153	0.00220	mg/kg dry	1	P6F2019	06/19/16	06/20/16	EPA 8021B	
Xylene (o)	0.0176	0.00110	mg/kg dry	1	P6F2019	06/19/16	06/20/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		86.7 %	75-125		P6F2019	06/19/16	06/20/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		103 %	75-125		P6F2019	06/19/16	06/20/16	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	121	1.10	mg/kg dry	1	P6F2016	06/20/16	06/20/16	EPA 300.0	
% Moisture	9.0	0.1	%	1	P6F2002	06/20/16	06/20/16	% calculation	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	293	27.5	mg/kg dry	1	P6F2003	06/17/16	06/18/16	TPH 8015M	
>C12-C28	2070	27.5	mg/kg dry	1	P6F2003	06/17/16	06/18/16	TPH 8015M	
>C28-C35	232	27.5	mg/kg dry	1	P6F2003	06/17/16	06/18/16	TPH 8015M	
Surrogate: 1-Chlorooctane		124 %	70-130		P6F2003	06/17/16	06/18/16	TPH 8015M	
Surrogate: o-Terphenyl		127 %	70-130		P6F2003	06/17/16	06/18/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	2590	27.5	mg/kg dry	1	[CALC]	06/17/16	06/18/16	calc	

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SS-1 10-11
6F17001-05 (Soil)

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

Organics by GC

Benzene	ND	0.00118	mg/kg dry	1	P6F2019	06/19/16	06/19/16	EPA 8021B	
Toluene	ND	0.00235	mg/kg dry	1	P6F2019	06/19/16	06/19/16	EPA 8021B	
Ethylbenzene	ND	0.00118	mg/kg dry	1	P6F2019	06/19/16	06/19/16	EPA 8021B	
Xylene (p/m)	ND	0.00235	mg/kg dry	1	P6F2019	06/19/16	06/19/16	EPA 8021B	
Xylene (o)	ND	0.00118	mg/kg dry	1	P6F2019	06/19/16	06/19/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %	75-125		P6F2019	06/19/16	06/19/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		111 %	75-125		P6F2019	06/19/16	06/19/16	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	10600	58.8	mg/kg dry	50	P6F2016	06/20/16	06/20/16	EPA 300.0	
% Moisture	15.0	0.1	%	1	P6F2002	06/20/16	06/20/16	% calculation	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	29.4	mg/kg dry	1	P6F2009	06/17/16	06/18/16	TPH 8015M	
>C12-C28	ND	29.4	mg/kg dry	1	P6F2009	06/17/16	06/18/16	TPH 8015M	
>C28-C35	ND	29.4	mg/kg dry	1	P6F2009	06/17/16	06/18/16	TPH 8015M	
Surrogate: 1-Chlorooctane		108 %	70-130		P6F2009	06/17/16	06/18/16	TPH 8015M	
Surrogate: o-Terphenyl		123 %	70-130		P6F2009	06/17/16	06/18/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	29.4	mg/kg dry	1	[CALC]	06/17/16	06/18/16	calc	

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SS-2 0-1
6F17001-06 (Soil)

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

Organics by GC

Benzene	ND	0.568	mg/kg dry	500	P6F2019	06/19/16	06/20/16	EPA 8021B	
Toluene	ND	1.14	mg/kg dry	500	P6F2019	06/19/16	06/20/16	EPA 8021B	
Ethylbenzene	ND	0.568	mg/kg dry	500	P6F2019	06/19/16	06/20/16	EPA 8021B	
Xylene (p/m)	3.42	1.14	mg/kg dry	500	P6F2019	06/19/16	06/20/16	EPA 8021B	
Xylene (o)	55.0	0.568	mg/kg dry	500	P6F2019	06/19/16	06/20/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		105 %	75-125		P6F2019	06/19/16	06/20/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		125 %	75-125		P6F2019	06/19/16	06/20/16	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	49.8	1.14	mg/kg dry	1	P6F2016	06/20/16	06/20/16	EPA 300.0	
% Moisture	12.0	0.1	%	1	P6F2002	06/20/16	06/20/16	% calculation	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	1020	142	mg/kg dry	5	P6F2009	06/17/16	06/18/16	TPH 8015M	
>C12-C28	9720	142	mg/kg dry	5	P6F2009	06/17/16	06/18/16	TPH 8015M	
>C28-C35	1750	142	mg/kg dry	5	P6F2009	06/17/16	06/18/16	TPH 8015M	
Surrogate: 1-Chlorooctane		107 %	70-130		P6F2009	06/17/16	06/18/16	TPH 8015M	
Surrogate: o-Terphenyl		117 %	70-130		P6F2009	06/17/16	06/18/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	12500	142	mg/kg dry	5	[CALC]	06/17/16	06/18/16	calc	

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SS-2 1-2
6F17001-07 (Soil)

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

Organics by GC

Benzene	0.783	0.556	mg/kg dry	500	P6F2019	06/19/16	06/20/16	EPA 8021B	
Toluene	2.38	1.11	mg/kg dry	500	P6F2019	06/19/16	06/20/16	EPA 8021B	
Ethylbenzene	8.91	0.556	mg/kg dry	500	P6F2019	06/19/16	06/20/16	EPA 8021B	
Xylene (p/m)	16.0	1.11	mg/kg dry	500	P6F2019	06/19/16	06/20/16	EPA 8021B	
Xylene (o)	5.21	0.556	mg/kg dry	500	P6F2019	06/19/16	06/20/16	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		109 %	75-125		P6F2019	06/19/16	06/20/16	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		103 %	75-125		P6F2019	06/19/16	06/20/16	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	28.8	1.11	mg/kg dry	1	P6F2016	06/20/16	06/20/16	EPA 300.0	
% Moisture	10.0	0.1	%	1	P6F2002	06/20/16	06/20/16	% calculation	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	2610	139	mg/kg dry	5	P6F2009	06/17/16	06/18/16	TPH 8015M	
>C12-C28	6380	139	mg/kg dry	5	P6F2009	06/17/16	06/18/16	TPH 8015M	
>C28-C35	1240	139	mg/kg dry	5	P6F2009	06/17/16	06/18/16	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		119 %	70-130		P6F2009	06/17/16	06/18/16	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		110 %	70-130		P6F2009	06/17/16	06/18/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	10200	139	mg/kg dry	5	[CALC]	06/17/16	06/18/16	calc	

Charger Services
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SS-2 2-3
6F17001-08 (Soil)

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

Organics by GC

Benzene	ND	0.106	mg/kg dry	100	P6F2019	06/19/16	06/20/16	EPA 8021B	
Toluene	ND	0.213	mg/kg dry	100	P6F2019	06/19/16	06/20/16	EPA 8021B	
Ethylbenzene	ND	0.106	mg/kg dry	100	P6F2019	06/19/16	06/20/16	EPA 8021B	
Xylene (p/m)	ND	0.213	mg/kg dry	100	P6F2019	06/19/16	06/20/16	EPA 8021B	
Xylene (o)	0.178	0.106	mg/kg dry	100	P6F2019	06/19/16	06/20/16	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		114 %	75-125		P6F2019	06/19/16	06/20/16	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		113 %	75-125		P6F2019	06/19/16	06/20/16	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	11.0	1.06	mg/kg dry	1	P6F2017	06/20/16	06/20/16	EPA 300.0	
% Moisture	6.0	0.1	%	1	P6F2002	06/20/16	06/20/16	% calculation	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	27.6	26.6	mg/kg dry	1	P6F2009	06/17/16	06/18/16	TPH 8015M	
>C12-C28	430	26.6	mg/kg dry	1	P6F2009	06/17/16	06/18/16	TPH 8015M	
>C28-C35	67.3	26.6	mg/kg dry	1	P6F2009	06/17/16	06/18/16	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		115 %	70-130		P6F2009	06/17/16	06/18/16	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		134 %	70-130		P6F2009	06/17/16	06/18/16	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	525	26.6	mg/kg dry	1	[CALC]	06/17/16	06/18/16	calc	

Charger Services
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SS-2 5-6
6F17001-09 (Soil)

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

Organics by GC

Benzene	ND	0.301	mg/kg dry	250	P6F2019	06/19/16	06/20/16	EPA 8021B	
Toluene	ND	0.602	mg/kg dry	250	P6F2019	06/19/16	06/20/16	EPA 8021B	
Ethylbenzene	ND	0.301	mg/kg dry	250	P6F2019	06/19/16	06/20/16	EPA 8021B	
Xylene (p/m)	0.846	0.602	mg/kg dry	250	P6F2019	06/19/16	06/20/16	EPA 8021B	
Xylene (o)	ND	0.301	mg/kg dry	250	P6F2019	06/19/16	06/20/16	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		<i>105 %</i>	<i>75-125</i>		<i>P6F2019</i>	<i>06/19/16</i>	<i>06/20/16</i>	<i>EPA 8021B</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>109 %</i>	<i>75-125</i>		<i>P6F2019</i>	<i>06/19/16</i>	<i>06/20/16</i>	<i>EPA 8021B</i>	

General Chemistry Parameters by EPA / Standard Methods

Chloride	99.0	1.20	mg/kg dry	1	P6F2017	06/20/16	06/20/16	EPA 300.0	
% Moisture	17.0	0.1	%	1	P6F2002	06/20/16	06/20/16	% calculation	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	435	30.1	mg/kg dry	1	P6F2009	06/17/16	06/18/16	TPH 8015M	
>C12-C28	2950	30.1	mg/kg dry	1	P6F2009	06/17/16	06/18/16	TPH 8015M	
>C28-C35	569	30.1	mg/kg dry	1	P6F2009	06/17/16	06/18/16	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		<i>130 %</i>	<i>70-130</i>		<i>P6F2009</i>	<i>06/17/16</i>	<i>06/18/16</i>	<i>TPH 8015M</i>	
<i>Surrogate: o-Terphenyl</i>		<i>141 %</i>	<i>70-130</i>		<i>P6F2009</i>	<i>06/17/16</i>	<i>06/18/16</i>	<i>TPH 8015M</i>	<i>S-GC</i>
Total Petroleum Hydrocarbon C6-C35	3950	30.1	mg/kg dry	1	[CALC]	06/17/16	06/18/16	calc	

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Project Number: [none]
Project Manager: Coty Woolf

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SS-2 10-11
6F17001-10 (Soil)

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

Organics by GC

Benzene	ND	0.00112	mg/kg dry	1	P6F2019	06/19/16	06/19/16	EPA 8021B	
Toluene	ND	0.00225	mg/kg dry	1	P6F2019	06/19/16	06/19/16	EPA 8021B	
Ethylbenzene	ND	0.00112	mg/kg dry	1	P6F2019	06/19/16	06/19/16	EPA 8021B	
Xylene (p/m)	ND	0.00225	mg/kg dry	1	P6F2019	06/19/16	06/19/16	EPA 8021B	
Xylene (o)	0.00156	0.00112	mg/kg dry	1	P6F2019	06/19/16	06/19/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		126 %	75-125		P6F2019	06/19/16	06/19/16	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene		98.4 %	75-125		P6F2019	06/19/16	06/19/16	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	786	11.2	mg/kg dry	10	P6F2017	06/20/16	06/20/16	EPA 300.0	
% Moisture	11.0	0.1	%	1	P6F2002	06/20/16	06/20/16	% calculation	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.1	mg/kg dry	1	P6F2009	06/17/16	06/18/16	TPH 8015M	
>C12-C28	458	28.1	mg/kg dry	1	P6F2009	06/17/16	06/18/16	TPH 8015M	
>C28-C35	99.4	28.1	mg/kg dry	1	P6F2009	06/17/16	06/18/16	TPH 8015M	
Surrogate: 1-Chlorooctane		111 %	70-130		P6F2009	06/17/16	06/18/16	TPH 8015M	
Surrogate: o-Terphenyl		131 %	70-130		P6F2009	06/17/16	06/18/16	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	557	28.1	mg/kg dry	1	[CALC]	06/17/16	06/18/16	calc	

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Project Number: [none]
Project Manager: Coty Woolf

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SS-3 0-1
6F17001-11 (Soil)

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

Organics by GC

Benzene	ND	0.543	mg/kg dry	500	P6F2019	06/19/16	06/20/16	EPA 8021B	
Toluene	ND	1.09	mg/kg dry	500	P6F2019	06/19/16	06/20/16	EPA 8021B	
Ethylbenzene	ND	0.543	mg/kg dry	500	P6F2019	06/19/16	06/20/16	EPA 8021B	
Xylene (p/m)	4.51	1.09	mg/kg dry	500	P6F2019	06/19/16	06/20/16	EPA 8021B	
Xylene (o)	0.560	0.543	mg/kg dry	500	P6F2019	06/19/16	06/20/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.7 %	75-125		P6F2019	06/19/16	06/20/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		124 %	75-125		P6F2019	06/19/16	06/20/16	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	1120	10.9	mg/kg dry	10	P6F2017	06/20/16	06/20/16	EPA 300.0	
% Moisture	8.0	0.1	%	1	P6F2002	06/20/16	06/20/16	% calculation	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	1090	272	mg/kg dry	10	P6F2009	06/17/16	06/18/16	TPH 8015M	
>C12-C28	8760	272	mg/kg dry	10	P6F2009	06/17/16	06/18/16	TPH 8015M	
>C28-C35	1970	272	mg/kg dry	10	P6F2009	06/17/16	06/18/16	TPH 8015M	
Surrogate: 1-Chlorooctane		108 %	70-130		P6F2009	06/17/16	06/18/16	TPH 8015M	
Surrogate: o-Terphenyl		115 %	70-130		P6F2009	06/17/16	06/18/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	11800	272	mg/kg dry	10	[CALC]	06/17/16	06/18/16	calc	

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Project Number: [none]
Project Manager: Coty Woolf

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SS-3 1-2
6F17001-12 (Soil)

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

Organics by GC

Benzene	ND	0.108	mg/kg dry	100	P6F2019	06/19/16	06/20/16	EPA 8021B	
Toluene	ND	0.215	mg/kg dry	100	P6F2019	06/19/16	06/20/16	EPA 8021B	
Ethylbenzene	ND	0.108	mg/kg dry	100	P6F2019	06/19/16	06/20/16	EPA 8021B	
Xylene (p/m)	0.261	0.215	mg/kg dry	100	P6F2019	06/19/16	06/20/16	EPA 8021B	
Xylene (o)	ND	0.108	mg/kg dry	100	P6F2019	06/19/16	06/20/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		110 %	75-125		P6F2019	06/19/16	06/20/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		106 %	75-125		P6F2019	06/19/16	06/20/16	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	249	5.38	mg/kg dry	5	P6F2017	06/20/16	06/20/16	EPA 300.0	
% Moisture	7.0	0.1	%	1	P6F2002	06/20/16	06/20/16	% calculation	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	176	134	mg/kg dry	5	P6F2009	06/17/16	06/18/16	TPH 8015M	
>C12-C28	1820	134	mg/kg dry	5	P6F2009	06/17/16	06/18/16	TPH 8015M	
>C28-C35	450	134	mg/kg dry	5	P6F2009	06/17/16	06/18/16	TPH 8015M	
Surrogate: 1-Chlorooctane		106 %	70-130		P6F2009	06/17/16	06/18/16	TPH 8015M	
Surrogate: o-Terphenyl		126 %	70-130		P6F2009	06/17/16	06/18/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	2440	134	mg/kg dry	5	[CALC]	06/17/16	06/18/16	calc	

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SS-3 2-3
6F17001-13 (Soil)

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

Organics by GC

Benzene	ND	0.00111	mg/kg dry	1	P6F2019	06/19/16	06/20/16	EPA 8021B	
Toluene	ND	0.00222	mg/kg dry	1	P6F2019	06/19/16	06/20/16	EPA 8021B	
Ethylbenzene	ND	0.00111	mg/kg dry	1	P6F2019	06/19/16	06/20/16	EPA 8021B	
Xylene (p/m)	0.00286	0.00222	mg/kg dry	1	P6F2019	06/19/16	06/20/16	EPA 8021B	
Xylene (o)	ND	0.00111	mg/kg dry	1	P6F2019	06/19/16	06/20/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		97.7 %	75-125		P6F2019	06/19/16	06/20/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		124 %	75-125		P6F2019	06/19/16	06/20/16	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	201	1.11	mg/kg dry	1	P6F2017	06/20/16	06/20/16	EPA 300.0	
% Moisture	10.0	0.1	%	1	P6F2002	06/20/16	06/20/16	% calculation	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.8	mg/kg dry	1	P6F2009	06/17/16	06/18/16	TPH 8015M	
>C12-C28	42.2	27.8	mg/kg dry	1	P6F2009	06/17/16	06/18/16	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P6F2009	06/17/16	06/18/16	TPH 8015M	
Surrogate: 1-Chlorooctane		125 %	70-130		P6F2009	06/17/16	06/18/16	TPH 8015M	
Surrogate: o-Terphenyl		139 %	70-130		P6F2009	06/17/16	06/18/16	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	42.2	27.8	mg/kg dry	1	[CALC]	06/17/16	06/18/16	calc	

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Project Number: [none]
Project Manager: Coty Woolf

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SS-3 5-6
6F17001-14 (Soil)

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

Organics by GC

Benzene	ND	0.00114	mg/kg dry	1	P6F2102	06/19/16	06/21/16	EPA 8021B	
Toluene	ND	0.00227	mg/kg dry	1	P6F2102	06/19/16	06/21/16	EPA 8021B	
Ethylbenzene	ND	0.00114	mg/kg dry	1	P6F2102	06/19/16	06/21/16	EPA 8021B	
Xylene (p/m)	0.0102	0.00227	mg/kg dry	1	P6F2102	06/19/16	06/21/16	EPA 8021B	
Xylene (o)	0.00238	0.00114	mg/kg dry	1	P6F2102	06/19/16	06/21/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		97.8 %	75-125		P6F2102	06/19/16	06/21/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		83.4 %	75-125		P6F2102	06/19/16	06/21/16	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	217	5.68	mg/kg dry	5	P6F2017	06/20/16	06/20/16	EPA 300.0	
% Moisture	12.0	0.1	%	1	P6F2002	06/20/16	06/20/16	% calculation	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	98.3	28.4	mg/kg dry	1	P6F2009	06/17/16	06/18/16	TPH 8015M	
>C12-C28	934	28.4	mg/kg dry	1	P6F2009	06/17/16	06/18/16	TPH 8015M	
>C28-C35	189	28.4	mg/kg dry	1	P6F2009	06/17/16	06/18/16	TPH 8015M	
Surrogate: 1-Chlorooctane		129 %	70-130		P6F2009	06/17/16	06/18/16	TPH 8015M	
Surrogate: o-Terphenyl		146 %	70-130		P6F2009	06/17/16	06/18/16	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	1220	28.4	mg/kg dry	1	[CALC]	06/17/16	06/18/16	calc	

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Project: New Kumet
Project Number: [none]
Project Manager: Coty Woolf

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SS-3 10-11
6F17001-15 (Soil)

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

Organics by GC

Benzene	ND	0.00120	mg/kg dry	1	P6F2019	06/19/16	06/20/16	EPA 8021B	
Toluene	ND	0.00241	mg/kg dry	1	P6F2019	06/19/16	06/20/16	EPA 8021B	
Ethylbenzene	ND	0.00120	mg/kg dry	1	P6F2019	06/19/16	06/20/16	EPA 8021B	
Xylene (p/m)	0.00443	0.00241	mg/kg dry	1	P6F2019	06/19/16	06/20/16	EPA 8021B	
Xylene (o)	ND	0.00120	mg/kg dry	1	P6F2019	06/19/16	06/20/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		118 %	75-125		P6F2019	06/19/16	06/20/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		100 %	75-125		P6F2019	06/19/16	06/20/16	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	117	1.20	mg/kg dry	1	P6F2017	06/20/16	06/20/16	EPA 300.0	
% Moisture	17.0	0.1	%	1	P6F2002	06/20/16	06/20/16	% calculation	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	53.3	30.1	mg/kg dry	1	P6F2009	06/17/16	06/18/16	TPH 8015M	
>C12-C28	726	30.1	mg/kg dry	1	P6F2009	06/17/16	06/18/16	TPH 8015M	
>C28-C35	111	30.1	mg/kg dry	1	P6F2009	06/17/16	06/18/16	TPH 8015M	
Surrogate: 1-Chlorooctane		127 %	70-130		P6F2009	06/17/16	06/18/16	TPH 8015M	
Surrogate: o-Terphenyl		146 %	70-130		P6F2009	06/17/16	06/18/16	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	890	30.1	mg/kg dry	1	[CALC]	06/17/16	06/18/16	calc	

Charger Services
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Project: New Kumet
Project Number: [none]
Project Manager: Coty Woolf

Fax: (432) 695-6247

SS-4 0-1
6F17001-16 (Soil)

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

Organics by GC

Benzene	ND	0.00110	mg/kg dry	1	P6F2019	06/19/16	06/20/16	EPA 8021B	
Toluene	ND	0.00220	mg/kg dry	1	P6F2019	06/19/16	06/20/16	EPA 8021B	
Ethylbenzene	ND	0.00110	mg/kg dry	1	P6F2019	06/19/16	06/20/16	EPA 8021B	
Xylene (p/m)	ND	0.00220	mg/kg dry	1	P6F2019	06/19/16	06/20/16	EPA 8021B	
Xylene (o)	0.0178	0.00110	mg/kg dry	1	P6F2019	06/19/16	06/20/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		129 %	75-125		P6F2019	06/19/16	06/20/16	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene		113 %	75-125		P6F2019	06/19/16	06/20/16	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	183	1.10	mg/kg dry	1	P6F2017	06/20/16	06/20/16	EPA 300.0	
% Moisture	9.0	0.1	%	1	P6F2002	06/20/16	06/20/16	% calculation	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.5	mg/kg dry	1	P6F2009	06/17/16	06/18/16	TPH 8015M	
>C12-C28	1540	27.5	mg/kg dry	1	P6F2009	06/17/16	06/18/16	TPH 8015M	
>C28-C35	565	27.5	mg/kg dry	1	P6F2009	06/17/16	06/18/16	TPH 8015M	
Surrogate: 1-Chlorooctane		121 %	70-130		P6F2009	06/17/16	06/18/16	TPH 8015M	
Surrogate: o-Terphenyl		142 %	70-130		P6F2009	06/17/16	06/18/16	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	2110	27.5	mg/kg dry	1	[CALC]	06/17/16	06/18/16	calc	

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Project: New Kumet
Project Number: [none]
Project Manager: Coty Woolf

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SS-4 1-2
6F17001-17 (Soil)

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

Organics by GC

Benzene	ND	0.00115	mg/kg dry	1	P6F2019	06/19/16	06/20/16	EPA 8021B	
Toluene	ND	0.00230	mg/kg dry	1	P6F2019	06/19/16	06/20/16	EPA 8021B	
Ethylbenzene	ND	0.00115	mg/kg dry	1	P6F2019	06/19/16	06/20/16	EPA 8021B	
Xylene (p/m)	ND	0.00230	mg/kg dry	1	P6F2019	06/19/16	06/20/16	EPA 8021B	
Xylene (o)	ND	0.00115	mg/kg dry	1	P6F2019	06/19/16	06/20/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		116 %	75-125		P6F2019	06/19/16	06/20/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		107 %	75-125		P6F2019	06/19/16	06/20/16	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	221	5.75	mg/kg dry	5	P6F2017	06/20/16	06/20/16	EPA 300.0	
% Moisture	13.0	0.1	%	1	P6F2002	06/20/16	06/20/16	% calculation	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.7	mg/kg dry	1	P6F2009	06/17/16	06/18/16	TPH 8015M	
>C12-C28	555	28.7	mg/kg dry	1	P6F2009	06/17/16	06/18/16	TPH 8015M	
>C28-C35	131	28.7	mg/kg dry	1	P6F2009	06/17/16	06/18/16	TPH 8015M	
Surrogate: 1-Chlorooctane		125 %	70-130		P6F2009	06/17/16	06/18/16	TPH 8015M	
Surrogate: o-Terphenyl		142 %	70-130		P6F2009	06/17/16	06/18/16	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	686	28.7	mg/kg dry	1	[CALC]	06/17/16	06/18/16	calc	

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Project: New Kumet
Project Number: [none]
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SS-4 2-3
6F17001-18 (Soil)

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

Organics by GC

Benzene	ND	0.00110	mg/kg dry	1	P6F2019	06/19/16	06/20/16	EPA 8021B	
Toluene	ND	0.00220	mg/kg dry	1	P6F2019	06/19/16	06/20/16	EPA 8021B	
Ethylbenzene	0.00244	0.00110	mg/kg dry	1	P6F2019	06/19/16	06/20/16	EPA 8021B	
Xylene (p/m)	0.00944	0.00220	mg/kg dry	1	P6F2019	06/19/16	06/20/16	EPA 8021B	
Xylene (o)	0.00116	0.00110	mg/kg dry	1	P6F2019	06/19/16	06/20/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		99.3 %	75-125		P6F2019	06/19/16	06/20/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		106 %	75-125		P6F2019	06/19/16	06/20/16	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	435	5.49	mg/kg dry	5	P6F2017	06/20/16	06/20/16	EPA 300.0	
% Moisture	9.0	0.1	%	1	P6F2002	06/20/16	06/20/16	% calculation	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	30.9	27.5	mg/kg dry	1	P6F2009	06/17/16	06/18/16	TPH 8015M	
>C12-C28	520	27.5	mg/kg dry	1	P6F2009	06/17/16	06/18/16	TPH 8015M	
>C28-C35	181	27.5	mg/kg dry	1	P6F2009	06/17/16	06/18/16	TPH 8015M	
Surrogate: 1-Chlorooctane		120 %	70-130		P6F2009	06/17/16	06/18/16	TPH 8015M	
Surrogate: o-Terphenyl		137 %	70-130		P6F2009	06/17/16	06/18/16	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	732	27.5	mg/kg dry	1	[CALC]	06/17/16	06/18/16	calc	

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Project Number: [none]
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SS-4 5-6
6F17001-19 (Soil)

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

Organics by GC

Benzene	ND	0.00112	mg/kg dry	1	P6F2019	06/19/16	06/19/16	EPA 8021B	
Toluene	ND	0.00225	mg/kg dry	1	P6F2019	06/19/16	06/19/16	EPA 8021B	
Ethylbenzene	ND	0.00112	mg/kg dry	1	P6F2019	06/19/16	06/19/16	EPA 8021B	
Xylene (p/m)	ND	0.00225	mg/kg dry	1	P6F2019	06/19/16	06/19/16	EPA 8021B	
Xylene (o)	ND	0.00112	mg/kg dry	1	P6F2019	06/19/16	06/19/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		129 %	75-125		P6F2019	06/19/16	06/19/16	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene		103 %	75-125		P6F2019	06/19/16	06/19/16	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	404	5.62	mg/kg dry	5	P6F2017	06/20/16	06/20/16	EPA 300.0	
% Moisture	11.0	0.1	%	1	P6F2002	06/20/16	06/20/16	% calculation	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	31.2	28.1	mg/kg dry	1	P6F2009	06/17/16	06/18/16	TPH 8015M	
>C12-C28	741	28.1	mg/kg dry	1	P6F2009	06/17/16	06/18/16	TPH 8015M	
>C28-C35	164	28.1	mg/kg dry	1	P6F2009	06/17/16	06/18/16	TPH 8015M	
Surrogate: 1-Chlorooctane		105 %	70-130		P6F2009	06/17/16	06/18/16	TPH 8015M	
Surrogate: o-Terphenyl		126 %	70-130		P6F2009	06/17/16	06/18/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	936	28.1	mg/kg dry	1	[CALC]	06/17/16	06/18/16	calc	

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Project Number: [none]
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SS-4 10-11
6F17001-20 (Soil)

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

Organics by GC

Benzene	ND	0.00110	mg/kg dry	1	P6F2019	06/19/16	06/19/16	EPA 8021B	
Toluene	ND	0.00220	mg/kg dry	1	P6F2019	06/19/16	06/19/16	EPA 8021B	
Ethylbenzene	ND	0.00110	mg/kg dry	1	P6F2019	06/19/16	06/19/16	EPA 8021B	
Xylene (p/m)	ND	0.00220	mg/kg dry	1	P6F2019	06/19/16	06/19/16	EPA 8021B	
Xylene (o)	ND	0.00110	mg/kg dry	1	P6F2019	06/19/16	06/19/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		105 %	75-125		P6F2019	06/19/16	06/19/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		115 %	75-125		P6F2019	06/19/16	06/19/16	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	66.4	1.10	mg/kg dry	1	P6F2017	06/20/16	06/20/16	EPA 300.0	
% Moisture	9.0	0.1	%	1	P6F2002	06/20/16	06/20/16	% calculation	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.5	mg/kg dry	1	P6F2009	06/17/16	06/18/16	TPH 8015M	
>C12-C28	32.3	27.5	mg/kg dry	1	P6F2009	06/17/16	06/18/16	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P6F2009	06/17/16	06/18/16	TPH 8015M	
Surrogate: 1-Chlorooctane		116 %	70-130		P6F2009	06/17/16	06/18/16	TPH 8015M	
Surrogate: o-Terphenyl		136 %	70-130		P6F2009	06/17/16	06/18/16	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	32.3	27.5	mg/kg dry	1	[CALC]	06/17/16	06/18/16	calc	

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Project Number: [none]
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SS-5 0-1
6F17001-21 (Soil)

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

Organics by GC

Benzene	ND	0.00109	mg/kg dry	1	P6F2101	06/19/16	06/20/16	EPA 8021B	
Toluene	ND	0.00217	mg/kg dry	1	P6F2101	06/19/16	06/20/16	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P6F2101	06/19/16	06/20/16	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P6F2101	06/19/16	06/20/16	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P6F2101	06/19/16	06/20/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		114 %	75-125		P6F2101	06/19/16	06/20/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		106 %	75-125		P6F2101	06/19/16	06/20/16	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	1130	10.9	mg/kg dry	10	P6F2017	06/20/16	06/20/16	EPA 300.0	
% Moisture	8.0	0.1	%	1	P6F2002	06/20/16	06/20/16	% calculation	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.2	mg/kg dry	1	P6F2009	06/17/16	06/18/16	TPH 8015M	
>C12-C28	956	27.2	mg/kg dry	1	P6F2009	06/17/16	06/18/16	TPH 8015M	
>C28-C35	274	27.2	mg/kg dry	1	P6F2009	06/17/16	06/18/16	TPH 8015M	
Surrogate: 1-Chlorooctane		112 %	70-130		P6F2009	06/17/16	06/18/16	TPH 8015M	
Surrogate: o-Terphenyl		138 %	70-130		P6F2009	06/17/16	06/18/16	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	1230	27.2	mg/kg dry	1	[CALC]	06/17/16	06/18/16	calc	

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Project Number: [none]
Project Manager: Coty Woolf

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SS-5 1-2
6F17001-22 (Soil)

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

Organics by GC

Benzene	ND	0.00106	mg/kg dry	1	P6F2101	06/19/16	06/20/16	EPA 8021B	
Toluene	ND	0.00213	mg/kg dry	1	P6F2101	06/19/16	06/20/16	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P6F2101	06/19/16	06/20/16	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P6F2101	06/19/16	06/20/16	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P6F2101	06/19/16	06/20/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		110 %	75-125		P6F2101	06/19/16	06/20/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		105 %	75-125		P6F2101	06/19/16	06/20/16	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	1980	26.6	mg/kg dry	25	P6F2017	06/20/16	06/20/16	EPA 300.0	
% Moisture	6.0	0.1	%	1	P6F2002	06/20/16	06/20/16	% calculation	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.6	mg/kg dry	1	P6F2009	06/17/16	06/18/16	TPH 8015M	
>C12-C28	61.0	26.6	mg/kg dry	1	P6F2009	06/17/16	06/18/16	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P6F2009	06/17/16	06/18/16	TPH 8015M	
Surrogate: 1-Chlorooctane		109 %	70-130		P6F2009	06/17/16	06/18/16	TPH 8015M	
Surrogate: o-Terphenyl		134 %	70-130		P6F2009	06/17/16	06/18/16	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	61.0	26.6	mg/kg dry	1	[CALC]	06/17/16	06/18/16	calc	

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Project: New Kumet
Project Number: [none]
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SS-5 2-3
6F17001-23 (Soil)

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

Organics by GC

Benzene	ND	0.00115	mg/kg dry	1	P6F2101	06/19/16	06/20/16	EPA 8021B	
Toluene	ND	0.00230	mg/kg dry	1	P6F2101	06/19/16	06/20/16	EPA 8021B	
Ethylbenzene	ND	0.00115	mg/kg dry	1	P6F2101	06/19/16	06/20/16	EPA 8021B	
Xylene (p/m)	ND	0.00230	mg/kg dry	1	P6F2101	06/19/16	06/20/16	EPA 8021B	
Xylene (o)	ND	0.00115	mg/kg dry	1	P6F2101	06/19/16	06/20/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		110 %	75-125		P6F2101	06/19/16	06/20/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		112 %	75-125		P6F2101	06/19/16	06/20/16	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	102	1.15	mg/kg dry	1	P6F2017	06/20/16	06/20/16	EPA 300.0	
% Moisture	13.0	0.1	%	1	P6F2002	06/20/16	06/20/16	% calculation	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.7	mg/kg dry	1	P6F2009	06/17/16	06/18/16	TPH 8015M	
>C12-C28	ND	28.7	mg/kg dry	1	P6F2009	06/17/16	06/18/16	TPH 8015M	
>C28-C35	ND	28.7	mg/kg dry	1	P6F2009	06/17/16	06/18/16	TPH 8015M	
Surrogate: 1-Chlorooctane		110 %	70-130		P6F2009	06/17/16	06/18/16	TPH 8015M	
Surrogate: o-Terphenyl		132 %	70-130		P6F2009	06/17/16	06/18/16	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	28.7	mg/kg dry	1	[CALC]	06/17/16	06/18/16	calc	

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Project: New Kumet
Project Number: [none]
Project Manager: Coty Woolf

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SS-5 5-6
6F17001-24 (Soil)

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

Organics by GC

Benzene	ND	0.00108	mg/kg dry	1	P6F2101	06/19/16	06/20/16	EPA 8021B	
Toluene	ND	0.00215	mg/kg dry	1	P6F2101	06/19/16	06/20/16	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P6F2101	06/19/16	06/20/16	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P6F2101	06/19/16	06/20/16	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P6F2101	06/19/16	06/20/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		111 %	75-125		P6F2101	06/19/16	06/20/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		104 %	75-125		P6F2101	06/19/16	06/20/16	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	3610	26.9	mg/kg dry	25	P6F2017	06/20/16	06/20/16	EPA 300.0	
% Moisture	7.0	0.1	%	1	P6F2002	06/20/16	06/20/16	% calculation	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.9	mg/kg dry	1	P6F2009	06/17/16	06/18/16	TPH 8015M	
>C12-C28	1220	26.9	mg/kg dry	1	P6F2009	06/17/16	06/18/16	TPH 8015M	
>C28-C35	253	26.9	mg/kg dry	1	P6F2009	06/17/16	06/18/16	TPH 8015M	
Surrogate: 1-Chlorooctane		123 %	70-130		P6F2009	06/17/16	06/18/16	TPH 8015M	
Surrogate: o-Terphenyl		156 %	70-130		P6F2009	06/17/16	06/18/16	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	1470	26.9	mg/kg dry	1	[CALC]	06/17/16	06/18/16	calc	

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Project: New Kumet
Project Number: [none]
Project Manager: Coty Woolf

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SS-6 0-1
6F17001-25 (Soil)

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

Organics by GC

Benzene	ND	0.104	mg/kg dry	100	P6F2101	06/19/16	06/21/16	EPA 8021B	
Toluene	ND	0.208	mg/kg dry	100	P6F2101	06/19/16	06/21/16	EPA 8021B	
Ethylbenzene	ND	0.104	mg/kg dry	100	P6F2101	06/19/16	06/21/16	EPA 8021B	
Xylene (p/m)	ND	0.208	mg/kg dry	100	P6F2101	06/19/16	06/21/16	EPA 8021B	
Xylene (o)	0.238	0.104	mg/kg dry	100	P6F2101	06/19/16	06/21/16	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		101 %	75-125		P6F2101	06/19/16	06/21/16	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		98.5 %	75-125		P6F2101	06/19/16	06/21/16	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	4340	52.1	mg/kg dry	50	P6F2017	06/20/16	06/20/16	EPA 300.0	
% Moisture	4.0	0.1	%	1	P6F2002	06/20/16	06/20/16	% calculation	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	564	260	mg/kg dry	10	P6F2005	06/17/16	06/18/16	TPH 8015M	
>C12-C28	15000	260	mg/kg dry	10	P6F2005	06/17/16	06/18/16	TPH 8015M	
>C28-C35	2030	260	mg/kg dry	10	P6F2005	06/17/16	06/18/16	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		109 %	70-130		P6F2005	06/17/16	06/18/16	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		106 %	70-130		P6F2005	06/17/16	06/18/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	17600	260	mg/kg dry	10	[CALC]	06/17/16	06/18/16	calc	

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Project: New Kumet
Project Number: [none]
Project Manager: Coty Woolf

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SS-6 1-2
6F17001-26 (Soil)

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

Organics by GC

Benzene	ND	0.105	mg/kg dry	100	P6F2101	06/19/16	06/21/16	EPA 8021B
Toluene	ND	0.211	mg/kg dry	100	P6F2101	06/19/16	06/21/16	EPA 8021B
Ethylbenzene	ND	0.105	mg/kg dry	100	P6F2101	06/19/16	06/21/16	EPA 8021B
Xylene (p/m)	0.712	0.211	mg/kg dry	100	P6F2101	06/19/16	06/21/16	EPA 8021B
Xylene (o)	3.33	0.105	mg/kg dry	100	P6F2101	06/19/16	06/21/16	EPA 8021B
Surrogate: 4-Bromofluorobenzene		113 %	75-125		P6F2101	06/19/16	06/21/16	EPA 8021B
Surrogate: 1,4-Difluorobenzene		104 %	75-125		P6F2101	06/19/16	06/21/16	EPA 8021B

General Chemistry Parameters by EPA / Standard Methods

Chloride	5700	52.6	mg/kg dry	50	P6F2017	06/20/16	06/20/16	EPA 300.0
% Moisture	5.0	0.1	%	1	P6F2002	06/20/16	06/20/16	% calculation

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	284	132	mg/kg dry	5	P6F2005	06/17/16	06/18/16	TPH 8015M
>C12-C28	8180	132	mg/kg dry	5	P6F2005	06/17/16	06/18/16	TPH 8015M
>C28-C35	1290	132	mg/kg dry	5	P6F2005	06/17/16	06/18/16	TPH 8015M
Surrogate: 1-Chlorooctane		111 %	70-130		P6F2005	06/17/16	06/18/16	TPH 8015M
Surrogate: o-Terphenyl		112 %	70-130		P6F2005	06/17/16	06/18/16	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	9750	132	mg/kg dry	5	[CALC]	06/17/16	06/18/16	calc

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Project: New Kumet
Project Number: [none]
Project Manager: Coty Woolf

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SS-6 2-3
6F17001-27 (Soil)

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

Organics by GC

Benzene	ND	0.00108	mg/kg dry	1	P6F2101	06/19/16	06/20/16	EPA 8021B	
Toluene	ND	0.00215	mg/kg dry	1	P6F2101	06/19/16	06/20/16	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P6F2101	06/19/16	06/20/16	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P6F2101	06/19/16	06/20/16	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P6F2101	06/19/16	06/20/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		107 %	75-125		P6F2101	06/19/16	06/20/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		113 %	75-125		P6F2101	06/19/16	06/20/16	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	5070	53.8	mg/kg dry	50	P6F2017	06/20/16	06/20/16	EPA 300.0	
% Moisture	7.0	0.1	%	1	P6F2002	06/20/16	06/20/16	% calculation	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	40.7	26.9	mg/kg dry	1	P6F2005	06/17/16	06/18/16	TPH 8015M	
>C12-C28	858	26.9	mg/kg dry	1	P6F2005	06/17/16	06/18/16	TPH 8015M	
>C28-C35	207	26.9	mg/kg dry	1	P6F2005	06/17/16	06/18/16	TPH 8015M	
Surrogate: 1-Chlorooctane		123 %	70-130		P6F2005	06/17/16	06/18/16	TPH 8015M	
Surrogate: o-Terphenyl		128 %	70-130		P6F2005	06/17/16	06/18/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	1110	26.9	mg/kg dry	1	[CALC]	06/17/16	06/18/16	calc	

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Project: New Kumet
Project Number: [none]
Project Manager: Coty Woolf

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SS-6 5-6
6F17001-28 (Soil)

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

Organics by GC

Benzene	ND	0.00116	mg/kg dry	1	P6F2101	06/19/16	06/20/16	EPA 8021B	
Toluene	ND	0.00233	mg/kg dry	1	P6F2101	06/19/16	06/20/16	EPA 8021B	
Ethylbenzene	ND	0.00116	mg/kg dry	1	P6F2101	06/19/16	06/20/16	EPA 8021B	
Xylene (p/m)	ND	0.00233	mg/kg dry	1	P6F2101	06/19/16	06/20/16	EPA 8021B	
Xylene (o)	ND	0.00116	mg/kg dry	1	P6F2101	06/19/16	06/20/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		129 %	75-125		P6F2101	06/19/16	06/20/16	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene		106 %	75-125		P6F2101	06/19/16	06/20/16	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	12300	58.1	mg/kg dry	50	P6F2018	06/20/16	06/21/16	EPA 300.0	
% Moisture	14.0	0.1	%	1	P6F2002	06/20/16	06/20/16	% calculation	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	29.1	mg/kg dry	1	P6F2005	06/17/16	06/18/16	TPH 8015M	
>C12-C28	235	29.1	mg/kg dry	1	P6F2005	06/17/16	06/18/16	TPH 8015M	
>C28-C35	55.5	29.1	mg/kg dry	1	P6F2005	06/17/16	06/18/16	TPH 8015M	
Surrogate: 1-Chlorooctane		103 %	70-130		P6F2005	06/17/16	06/18/16	TPH 8015M	
Surrogate: o-Terphenyl		108 %	70-130		P6F2005	06/17/16	06/18/16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	291	29.1	mg/kg dry	1	[CALC]	06/17/16	06/18/16	calc	

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Midland TX, 79710

Project: New Kumet
Project Number: [none]
Project Manager: Coty Woolf

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P6F2019 - General Preparation (GC)

Blank (P6F2019-BLK1)

Prepared & Analyzed: 06/19/16

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: 4-Bromofluorobenzene	0.0646		"	0.0600		108	75-125			
Surrogate: 1,4-Difluorobenzene	0.0592		"	0.0600		98.7	75-125			

LCS (P6F2019-BS1)

Prepared & Analyzed: 06/19/16

Benzene	0.116	0.00100	mg/kg wet	0.100		116	70-130			
Toluene	0.0956	0.00200	"	0.100		95.6	70-130			
Ethylbenzene	0.113	0.00100	"	0.100		113	70-130			
Xylene (p/m)	0.206	0.00200	"	0.200		103	70-130			
Xylene (o)	0.114	0.00100	"	0.100		114	70-130			
Surrogate: 1,4-Difluorobenzene	0.0605		"	0.0600		101	75-125			
Surrogate: 4-Bromofluorobenzene	0.0658		"	0.0600		110	75-125			

LCS Dup (P6F2019-BSD1)

Prepared & Analyzed: 06/19/16

Benzene	0.113	0.00100	mg/kg wet	0.100		113	70-130	2.08	20	
Toluene	0.0952	0.00200	"	0.100		95.2	70-130	0.367	20	
Ethylbenzene	0.117	0.00100	"	0.100		117	70-130	3.52	20	
Xylene (p/m)	0.206	0.00200	"	0.200		103	70-130	0.0437	20	
Xylene (o)	0.113	0.00100	"	0.100		113	70-130	0.556	20	
Surrogate: 1,4-Difluorobenzene	0.0614		"	0.0600		102	75-125			
Surrogate: 4-Bromofluorobenzene	0.0684		"	0.0600		114	75-125			

Matrix Spike (P6F2019-MS1)

Source: 6F17001-20

Prepared: 06/19/16 Analyzed: 06/20/16

Benzene	0.0773	0.00110	mg/kg dry	0.110	ND	70.4	80-120			QM-07
Toluene	0.0587	0.00220	"	0.110	ND	53.4	80-120			QM-07
Ethylbenzene	0.0993	0.00110	"	0.110	ND	90.4	80-120			
Xylene (p/m)	0.176	0.00220	"	0.220	ND	80.0	80-120			
Xylene (o)	0.0935	0.00110	"	0.110	ND	85.1	80-120			
Surrogate: 4-Bromofluorobenzene	0.0849		"	0.0659		129	75-125			S-GC
Surrogate: 1,4-Difluorobenzene	0.0819		"	0.0659		124	75-125			

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Project: New Kumet
Project Number: [none]
Project Manager: Coty Woolf

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P6F2019 - General Preparation (GC)

Matrix Spike Dup (P6F2019-MSD1)

Source: 6F17001-20

Prepared: 06/19/16 Analyzed: 06/20/16

Benzene	0.0643	0.00110	mg/kg dry	0.110	ND	58.5	80-120	18.4	20	QM-07
Toluene	0.0470	0.00220	"	0.110	ND	42.8	80-120	22.1	20	QM-07
Ethylbenzene	0.0789	0.00110	"	0.110	ND	71.8	80-120	22.9	20	QM-07
Xylene (p/m)	0.138	0.00220	"	0.220	ND	63.0	80-120	23.8	20	QM-07
Xylene (o)	0.0658	0.00110	"	0.110	ND	59.9	80-120	34.8	20	QM-07
Surrogate: 4-Bromofluorobenzene	0.0736		"	0.0659		112	75-125			
Surrogate: 1,4-Difluorobenzene	0.0753		"	0.0659		114	75-125			

Batch P6F2101 - General Preparation (GC)

Blank (P6F2101-BLK1)

Prepared: 06/19/16 Analyzed: 06/20/16

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	0.0626		"	0.0600		104	75-125			
Surrogate: 4-Bromofluorobenzene	0.0642		"	0.0600		107	75-125			

LCS (P6F2101-BS1)

Prepared: 06/19/16 Analyzed: 06/20/16

Benzene	0.120	0.00100	mg/kg wet	0.100		120	70-130			
Toluene	0.101	0.00200	"	0.100		101	70-130			
Ethylbenzene	0.120	0.00100	"	0.100		120	70-130			
Xylene (p/m)	0.207	0.00200	"	0.200		104	70-130			
Xylene (o)	0.117	0.00100	"	0.100		117	70-130			
Surrogate: 1,4-Difluorobenzene	0.0669		"	0.0600		112	75-125			
Surrogate: 4-Bromofluorobenzene	0.0689		"	0.0600		115	75-125			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P6F2101 - General Preparation (GC)

Matrix Spike (P6F2101-MS1)

Source: 6F17003-08

Prepared: 06/19/16 Analyzed: 06/21/16

Benzene	0.00230	0.00112	mg/kg dry	0.112	ND	2.05	80-120			QM-07
Toluene	0.00421	0.00225	"	0.112	ND	3.75	80-120			QM-07
Ethylbenzene	0.0351	0.00112	"	0.112	ND	31.2	80-120			QM-07
Xylene (p/m)	0.0456	0.00225	"	0.225	ND	20.3	80-120			QM-07
Xylene (o)	0.0241	0.00112	"	0.112	ND	21.5	80-120			QM-07
Surrogate: 4-Bromofluorobenzene	0.0631		"	0.0674		93.7	75-125			
Surrogate: 1,4-Difluorobenzene	0.0723		"	0.0674		107	75-125			

Batch P6F2102 - General Preparation (GC)

Blank (P6F2102-BLK1)

Prepared: 06/19/16 Analyzed: 06/21/16

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: 4-Bromofluorobenzene	0.0663		"	0.0600		111	75-125			
Surrogate: 1,4-Difluorobenzene	0.0613		"	0.0600		102	75-125			

LCS (P6F2102-BS1)

Prepared: 06/19/16 Analyzed: 06/21/16

Benzene	0.0908	0.00100	mg/kg wet	0.100		90.8	70-130			
Toluene	0.0804	0.00200	"	0.100		80.4	70-130			
Ethylbenzene	0.119	0.00100	"	0.100		119	70-130			
Xylene (p/m)	0.201	0.00200	"	0.200		100	70-130			
Xylene (o)	0.0953	0.00100	"	0.100		95.3	70-130			
Surrogate: 1,4-Difluorobenzene	0.0658		"	0.0600		110	75-125			
Surrogate: 4-Bromofluorobenzene	0.0748		"	0.0600		125	75-125			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P6F2102 - General Preparation (GC)

Matrix Spike (P6F2102-MS1)

Source: 6F17003-18

Prepared: 06/19/16 Analyzed: 06/21/16

Benzene	0.0666	0.00130	mg/kg dry	0.130	ND	51.3	80-120			QM-07
Toluene	0.0181	0.00260	"	0.130	ND	14.0	80-120			QM-07
Ethylbenzene	0.0491	0.00130	"	0.130	0.00700	32.4	80-120			QM-07
Xylene (p/m)	ND	0.00260	"	0.260	ND		80-120			QM-07
Xylene (o)	0.00539	0.00130	"	0.130	ND	4.15	80-120			QM-07
Surrogate: 4-Bromofluorobenzene	0.0892		"	0.0779		114	75-125			
Surrogate: 1,4-Difluorobenzene	0.0819		"	0.0779		105	75-125			

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Project: New Kumet
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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
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Batch P6F2002 - * DEFAULT PREP *****

Blank (P6F2002-BLK1)

Prepared & Analyzed: 06/20/16

% Moisture ND 0.1 %

Duplicate (P6F2002-DUP1)

Source: 6F17001-26

Prepared & Analyzed: 06/20/16

% Moisture 5.0 0.1 % 5.0 0.00 20

Duplicate (P6F2002-DUP2)

Source: 6F17003-07

Prepared & Analyzed: 06/20/16

% Moisture 10.0 0.1 % 11.0 9.52 20

Duplicate (P6F2002-DUP3)

Source: 6F17004-08

Prepared & Analyzed: 06/20/16

% Moisture 9.0 0.1 % 11.0 20.0 20

Duplicate (P6F2002-DUP4)

Source: 6F17005-13

Prepared & Analyzed: 06/20/16

% Moisture 16.0 0.1 % 17.0 6.06 20

Duplicate (P6F2002-DUP5)

Source: 6F17005-36

Prepared & Analyzed: 06/20/16

% Moisture 11.0 0.1 % 10.0 9.52 20

Batch P6F2016 - * DEFAULT PREP *****

Blank (P6F2016-BLK1)

Prepared & Analyzed: 06/20/16

Chloride ND 1.00 mg/kg wet

LCS (P6F2016-BS1)

Prepared & Analyzed: 06/20/16

Chloride 170 1.00 mg/kg wet 200 85.0 80-120

LCS Dup (P6F2016-BSD1)

Prepared & Analyzed: 06/20/16

Chloride 169 1.00 mg/kg wet 200 84.4 80-120 0.644 20

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Project: New Kumet
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Project Manager: Coty Woolf

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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
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Batch P6F2016 - * DEFAULT PREP *****

Duplicate (P6F2016-DUP1)		Source: 6F14003-08			Prepared & Analyzed: 06/20/16					
Chloride	15.7	1.04	mg/kg dry		15.4			2.01	20	
Duplicate (P6F2016-DUP2)		Source: 6F16007-01			Prepared & Analyzed: 06/20/16					
Chloride	227	1.03	mg/kg dry		234			3.08	20	
Matrix Spike (P6F2016-MS1)		Source: 6F14003-08			Prepared & Analyzed: 06/20/16					
Chloride	187	1.04	mg/kg dry	208	15.4	82.6	80-120			

Batch P6F2017 - * DEFAULT PREP *****

Blank (P6F2017-BLK1)		Prepared & Analyzed: 06/20/16								
Chloride	ND	1.00	mg/kg wet							
LCS (P6F2017-BS1)		Prepared & Analyzed: 06/20/16								
Chloride	173	1.00	mg/kg wet	200		86.4	80-120			
LCS Dup (P6F2017-BSD1)		Prepared & Analyzed: 06/20/16								
Chloride	175	1.00	mg/kg wet	200		87.6	80-120	1.39	20	
Duplicate (P6F2017-DUP1)		Source: 6F17001-08			Prepared & Analyzed: 06/20/16					
Chloride	12.1	1.06	mg/kg dry		11.0			9.54	20	
Duplicate (P6F2017-DUP2)		Source: 6F17001-18			Prepared & Analyzed: 06/20/16					
Chloride	444	5.49	mg/kg dry		435			1.99	20	
Matrix Spike (P6F2017-MS1)		Source: 6F17001-08			Prepared & Analyzed: 06/20/16					
Chloride	434	1.06	mg/kg dry	426	11.0	99.3	80-120			

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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
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Batch P6F2018 - * DEFAULT PREP *****

Blank (P6F2018-BLK1)

Prepared: 06/20/16 Analyzed: 06/21/16

Chloride	ND	1.00	mg/kg wet							
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LCS (P6F2018-BS1)

Prepared: 06/20/16 Analyzed: 06/21/16

Chloride	176	1.00	mg/kg wet	200		87.8	80-120			
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LCS Dup (P6F2018-BSD1)

Prepared: 06/20/16 Analyzed: 06/21/16

Chloride	177	1.00	mg/kg wet	200		88.7	80-120	0.941	20	
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Duplicate (P6F2018-DUP1)

Source: 6F20002-01

Prepared: 06/20/16 Analyzed: 06/21/16

Chloride	1210	5.32	mg/kg dry		1150			4.68	20	
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Duplicate (P6F2018-DUP2)

Source: 6F20002-11

Prepared: 06/20/16 Analyzed: 06/21/16

Chloride	779	5.26	mg/kg dry		761			2.28	20	
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Matrix Spike (P6F2018-MS1)

Source: 6F20002-01

Prepared: 06/20/16 Analyzed: 06/21/16

Chloride	2300	5.32	mg/kg dry	1060	1150	108	80-120			
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Project: New Kumet
Project Number: [none]
Project Manager: Coty Woolf

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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
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Batch P6F2003 - TX 1005

Blank (P6F2003-BLK1)

Prepared & Analyzed: 06/17/16

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	89.4		"	100		89.4	70-130			
Surrogate: o-Terphenyl	44.7		"	50.0		89.4	70-130			

LCS (P6F2003-BS1)

Prepared & Analyzed: 06/17/16

C6-C12	833	25.0	mg/kg wet	1000		83.3	75-125			
>C12-C28	1060	25.0	"	1000		106	75-125			
Surrogate: 1-Chlorooctane	116		"	100		116	70-130			
Surrogate: o-Terphenyl	41.8		"	50.0		83.6	70-130			

LCS Dup (P6F2003-BSD1)

Prepared & Analyzed: 06/17/16

C6-C12	818	25.0	mg/kg wet	1000		81.8	75-125	1.81	20	
>C12-C28	1060	25.0	"	1000		106	75-125	0.447	20	
Surrogate: 1-Chlorooctane	115		"	100		115	70-130			
Surrogate: o-Terphenyl	40.4		"	50.0		80.8	70-130			

Duplicate (P6F2003-DUP1)

Source: 6F17001-04

Prepared: 06/17/16 Analyzed: 06/18/16

C6-C12	295	27.5	mg/kg dry		293			0.807	20	
>C12-C28	2020	27.5	"		2070			2.46	20	
Surrogate: 1-Chlorooctane	126		"	110		115	70-130			
Surrogate: o-Terphenyl	68.5		"	54.9		125	70-130			

Batch P6F2005 - TX 1005

Blank (P6F2005-BLK1)

Prepared: 06/17/16 Analyzed: 06/18/16

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	95.8		"	100		95.8	70-130			
Surrogate: o-Terphenyl	47.8		"	50.0		95.7	70-130			

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Project: New Kumet
Project Number: [none]
Project Manager: Coty Woolf

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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
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Batch P6F2005 - TX 1005

LCS (P6F2005-BS1)

Prepared: 06/17/16 Analyzed: 06/18/16

C6-C12	829	25.0	mg/kg wet	1000		82.9	75-125			
>C12-C28	1070	25.0	"	1000		107	75-125			
Surrogate: 1-Chlorooctane	110		"	100		110	70-130			
Surrogate: o-Terphenyl	40.4		"	50.0		80.8	70-130			

LCS Dup (P6F2005-BSD1)

Prepared: 06/17/16 Analyzed: 06/18/16

C6-C12	825	25.0	mg/kg wet	1000		82.5	75-125	0.486	20	
>C12-C28	1070	25.0	"	1000		107	75-125	0.0652	20	
Surrogate: 1-Chlorooctane	112		"	100		112	70-130			
Surrogate: o-Terphenyl	41.5		"	50.0		83.0	70-130			

Duplicate (P6F2005-DUP1)

Source: 6F17003-16

Prepared: 06/17/16 Analyzed: 06/19/16

C6-C12	2190	272	mg/kg dry		2140			2.33	20	
>C12-C28	22600	272	"		21900			3.24	20	
Surrogate: 1-Chlorooctane	137		"	109		126	70-130			
Surrogate: o-Terphenyl	69.5		"	54.3		128	70-130			

Batch P6F2009 - TX 1005

Blank (P6F2009-BLK1)

Prepared: 06/17/16 Analyzed: 06/18/16

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	98.9		"	100		98.9	70-130			
Surrogate: o-Terphenyl	53.4		"	50.0		107	70-130			

LCS (P6F2009-BS1)

Prepared: 06/17/16 Analyzed: 06/18/16

C6-C12	970	25.0	mg/kg wet	1000		97.0	75-125			
>C12-C28	1210	25.0	"	1000		121	75-125			
Surrogate: 1-Chlorooctane	123		"	100		123	70-130			
Surrogate: o-Terphenyl	55.6		"	50.0		111	70-130			

Charger Services
P.O. Box 53070
Midland TX, 79710

Project: New Kumet
Project Number: [none]
Project Manager: Coty Woolf

Fax: (432) 695-6247

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P6F2009 - TX 1005

LCS Dup (P6F2009-BSD1)

Prepared: 06/17/16 Analyzed: 06/18/16

C6-C12	987	25.0	mg/kg wet	1000		98.7	75-125	1.78	20	
>C12-C28	1170	25.0	"	1000		117	75-125	3.05	20	
Surrogate: 1-Chlorooctane	131		"	100		131	70-130			S-GC
Surrogate: o-Terphenyl	57.7		"	50.0		115	70-130			

Duplicate (P6F2009-DUP1)

Source: 6F17001-24

Prepared: 06/17/16 Analyzed: 06/18/16

C6-C12	17.2	26.9	mg/kg dry		19.8			14.3	20	
>C12-C28	1200	26.9	"		1220			1.70	20	
Surrogate: 1-Chlorooctane	130		"	108		121	70-130			
Surrogate: o-Terphenyl	89.2		"	53.8		166	70-130			S-GC

Charger Services
P.O. Box 53070
Midland TX, 79710

Project: New Kumet
Project Number: [none]
Project Manager: Coty Woolf

Fax: (432) 695-6247

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:



Date:

6/30/2016

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.

Permian Basin Environmental Lab, LP

Phone: 432-686-7235

Project Manager:

Company Name

Company Address:

City/State/Zip:

Telephone No:

Sampler Signature:

Fax No:

e-mail:

Report Format: X Standard

PO#:

Project Loc:

Project #:

Project Name:

Dec 14 or 27

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(lab use only)
ORDER #: 6F1717001
LAB # (lab use only)
FIELD CODE
-11 -12 -13 -14 -15 -16 -17 -18 -19 -20
553 -3 -3 -3 -3 SSA -4 -4 -4 -4
Beginning Depth
Ending Depth
Date Sampled
Time Sampled
Field Filtered
Total #. of Containers
Ice
HNO ₃ 250 ml Poly
HCl
H ₂ SO ₄
NaOH
Na ₂ S ₂ O ₃
None 1L Poly
NaOH/ZnAc
DW=Drinking Water SL=Sludge
GW = Groundwater S=Soil/Solid
NP=Non-Potable Specify Other
TPH by TX 1005 8015B 8015M
Chloride
BTEX by 8021B
Rush 24 48 72 (Please call) Standard

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP
1400 Rankin Hwy
Midland, Texas 79701

Phone: 432-686-7235

Project Manager:

Company Name

Company Address:

City/State/Zip:

Telephone No:

Sampler Signature:

Fax No:

e-mail:

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Project Name:

Project #:

Project Loc:

PO #:

ORDER #: 6E17001

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO ₃ 250 ml Poly	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	None 1L Poly	NaOH/ZnAc	DW=Drinking Water SL=Sludge	GW = Groundwater S=Soil/Solid	NP=Non-Potable Specify Other	TPH by TX 1005 8015B 8015M	Chloride	BTEX by 8021B	Analyze For:	Rush 24 48 72 (Please call)	Standard
-21	55-5	0	1	6/7/16	7:50		1	X												X				
-22	55-5	1	2		8:00																			
-23	55-5	2	3		8:10																			
-24	55-5	3	4		8:20																			
-25	55-6	4	5		8:30																			
-26	55-6	5	6		8:40																			
-27	55-6	6	7		8:50																			
-28	55-6	7	8		9:00																			

Special Instructions:

Laboratory Comments:

Sample Containers Intact?

VOCS: Free of Headspace?

Labels on container(s)?

Custody seals on container(s)?

Sample Hand Delivered by Sampler/Client Rep?

Temperature Upon Receipt:
 Adjusted: 2.0 °C Factor

Relinquished by:
 Date: 6/17/16 Time: 8:00

Relinquished by:
 Date:
 Time:

Relinquished by:
 Date:
 Time:

Date:
 Time:

Date:
 Time:

Date:
 Time: