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



Analytical Report

Prepared for:

Johnny Titsworth Burnett Oil Company, Inc. 24 Smith Road Suite 100 Midland, TX 79705

Project: Water Flood Project Number: [none] Location: Loco Hills NM

Lab Order Number: 7C03011



NELAP/TCEQ # T104704156-16-6

Report Date: 03/17/17

Burnett Oil Company, Inc. 24 Smith Road Suite 100 Midland TX, 79705

Project: Water Flood Project Number: [none] Project Manager: Johnny Titsworth

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SP1 0-1.0	7C03011-01	Soil	03/02/17 00:00	03-03-2017 11:50
SP1 1-2.0	7C03011-02	Soil	03/02/17 00:00	03-03-2017 11:50
SP1 2-3.0	7C03011-03	Soil	03/02/17 00:00	03-03-2017 11:50
SP1 3-4.0	7C03011-04	Soil	03/02/17 00:00	03-03-2017 11:50
SP1 4-5.0	7C03011-05	Soil	03/02/17 00:00	03-03-2017 11:50
SP2 0-1.0	7C03011-06	Soil	03/02/17 00:00	03-03-2017 11:50
SP2 1-2.0	7C03011-07	Soil	03/02/17 00:00	03-03-2017 11:50
SP2 2-3.0	7C03011-08	Soil	03/02/17 00:00	03-03-2017 11:50
SP3 0-1.0	7C03011-09	Soil	03/02/17 00:00	03-03-2017 11:50
SP3 1-2.0	7C03011-10	Soil	03/02/17 00:00	03-03-2017 11:50
SP3 2-3.0	7C03011-11	Soil	03/02/17 00:00	03-03-2017 11:50
SP3 3-4.0	7C03011-12	Soil	03/02/17 00:00	03-03-2017 11:50
SP3 4-5.0	7C03011-13	Soil	03/02/17 00:00	03-03-2017 11:50
SP4 0-1.0	7C03011-14	Soil	03/02/17 00:00	03-03-2017 11:50
SP4 1-2.0	7C03011-15	Soil	03/02/17 00:00	03-03-2017 11:50
SP4 2-3.0	7C03011-16	Soil	03/02/17 00:00	03-03-2017 11:50
SP4 3-4.0	7C03011-17	Soil	03/02/17 00:00	03-03-2017 11:50
SP4 4-5.0	7C03011-18	Soil	03/02/17 00:00	03-03-2017 11:50
SP5 0-1.0	7C03011-19	Soil	03/02/17 00:00	03-03-2017 11:50
SP5 1-2.0	7C03011-20	Soil	03/02/17 00:00	03-03-2017 11:50
SP5 2-3.0	7C03011-21	Soil	03/02/17 00:00	03-03-2017 11:50
SP5 3-4.0	7C03011-22	Soil	03/02/17 00:00	03-03-2017 11:50
SP5 4-5.0	7C03011-23	Soil	03/02/17 00:00	03-03-2017 11:50
SP6 0-1.0	7C03011-24	Soil	03/02/17 00:00	03-03-2017 11:50
SP6 1-2.0	7C03011-25	Soil	03/02/17 00:00	03-03-2017 11:50
SP6 2-3.0	7C03011-26	Soil	03/02/17 00:00	03-03-2017 11:50
SP6 3-4.0	7C03011-27	Soil	03/02/17 00:00	03-03-2017 11:50
SP6 4-5.0	7C03011-28	Soil	03/02/17 00:00	03-03-2017 11:50
SP7 0-1.0	7C03011-29	Soil	03/02/17 00:00	03-03-2017 11:50
SP7 1-2.0	7C03011-30	Soil	03/02/17 00:00	03-03-2017 11:50
SP7 2-3.0	7C03011-31	Soil	03/02/17 00:00	03-03-2017 11:50
SP7 3-4.0	7C03011-32	Soil	03/02/17 00:00	03-03-2017 11:50
SP7 4-5.0	7C03011-33	Soil	03/02/17 00:00	03-03-2017 11:50
SP8 0-1.0	7C03011-34	Soil	03/02/17 00:00	03-03-2017 11:50

Burnett Oil Company, Inc. 24 Smith Road Suite 100 Midland TX, 79705

Project: Water Flood Project Number: [none] Project Manager: Johnny Titsworth

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SP8 1-2.0	7C03011-35	Soil	03/02/17 00:00	03-03-2017 11:50
SP8 2-3.0	7C03011-36	Soil	03/02/17 00:00	03-03-2017 11:50
SP8 3-4.0	7C03011-37	Soil	03/02/17 00:00	03-03-2017 11:50
SP8 4-5.0	7C03011-38	Soil	03/02/17 00:00	03-03-2017 11:50
SP9 0-1.0	7C03011-39	Soil	03/02/17 00:00	03-03-2017 11:50
SP9 1-2.0	7C03011-40	Soil	03/02/17 00:00	03-03-2017 11:50
SP9 2-3.0	7C03011-41	Soil	03/02/17 00:00	03-03-2017 11:50
SP9 3-4.0	7C03011-42	Soil	03/02/17 00:00	03-03-2017 11:50
SP9 4-5.0	7C03011-43	Soil	03/02/17 00:00	03-03-2017 11:50
SP10 0-1.0	7C03011-44	Soil	03/02/17 00:00	03-03-2017 11:50
SP10 1-2.0	7C03011-45	Soil	03/02/17 00:00	03-03-2017 11:50
SP10 2-3.0	7C03011-46	Soil	03/02/17 00:00	03-03-2017 11:50
SP10 3-4.0	7C03011-47	Soil	03/02/17 00:00	03-03-2017 11:50
SP10 4-5.0	7C03011-48	Soil	03/02/17 00:00	03-03-2017 11:50

SP1 0-1.0

	7C03011-01 (Soil)											
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes			
	Permia	n Basin F	Environme	ntal Lab, l	L .P.							
General Chemistry Parameters	by EPA / Standard Methods											
Chloride	5450	26.9	mg/kg dry	25	P7C0705	03/07/17	03/10/17	EPA 300.0				
% Moisture	7.0	0.1	%	1	P7C0604	03/06/17	03/06/17	% calculation				

Permian Basin Environmental Lab, L.P.

Burnett Oil Company, Inc.		Proj	ect: Water l	Flood				Fax:	
24 Smith Road Suite 100		Project Num	per: [none]						
Midland TX, 79705	F	Project Manager: Johnny Titsworth							
		S	P1 1-2.0						
		7C03	011-02 (So	il)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	ian Basin E	nvironme	ntal Lab, l	L .P.				
General Chemistry Parameters by E	PA / Standard Methods								
Chloride	2530	11.0	mg/kg dry	10	P7C0705	03/07/17	03/10/17	EPA 300.0	
% Moisture	9.0	0.1	%	1	P7C0604	03/06/17	03/06/17	% calculation	

Permian Basin Environmental Lab, L.P.

Burnett Oil Company, Inc.		Proj	ect: Water l	Flood				Fax:	
24 Smith Road Suite 100	Р	roject Numl	er: [none]						
Midland TX, 79705	Pr	oject Manag	ger: Johnny	Titsworth					
		S	P1 2-3.0						
		7C03	011-03 (So	il)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Permi	an Basin E	nvironme	ntal Lab, 1	L.P.				
General Chemistry Parameters by E	PA / Standard Methods								
Chloride	330	1.14	mg/kg dry	1	P7C0705	03/07/17	03/10/17	EPA 300.0	
% Moisture	12.0	0.1	%	1	P7C0604	03/06/17	03/06/17	% calculation	

Burnett Oil Company, Inc. 24 Smith Road Suite 100 Midland TX, 79705		Project Numb						Fax:	
	r		1 3-4.0						
		70030	11-04 (So	11)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Permi	an Basin Ei	ivironme	ntal Lab, I	L .P.				
General Chemistry Parameters by El	PA / Standard Methods								
Chloride	233	1.12	mg/kg dry	1	P7C0705	03/07/17	03/10/17	EPA 300.0	

1

P7C0604

03/06/17

03/06/17

% calculation

0.1

11.0

% Moisture

% Moisture

Project: Water Flood Project Number: [none] Project Manager: Johnny Titsworth

Fax:

			P1 4-5.0 011-05 (So	il)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Permia	an Basin E	nvironme	ntal Lab, I	L.P.				
General Chemistry Parame	ters by EPA / Standard Methods								
Chloride	218	1.11	mg/kg dry	1	P7C0706	03/07/17	03/10/17	EPA 300.0	

%

1

P7C0604

03/06/17

03/06/17

% calculation

0.1

10.0

Permian Basin Environmental Lab, L.P.

% Moisture

Project: Water Flood Project Number: [none] Project Manager: Johnny Titsworth

Fax:

% calculation

			P2 0-1.0 D11-06 (So	il)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Permiai	n Basin E	nvironme	ntal Lab, l	L .P.				
General Chemistry Parame	ters by EPA / Standard Methods								
Chloride	11200	54.3	mg/kg dry	50	P7C0706	03/07/17	03/10/17	EPA 300.0	

%

1

P7C0604

03/06/17

03/06/17

0.1

8.0

Burnett Oil Company, Inc.		Proj	ect: Water l	Flood				Fax:	
24 Smith Road Suite 100		Project Numl	per: [none]						
Midland TX, 79705	F	Project Manager: Johnny Titsworth							
		S	P2 1-2.0						
		7C03	011-07 (So	il)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	ian Basin E	nvironme	ntal Lab, l	L. P.				
General Chemistry Parameters by E	PA / Standard Methods								
Chloride	1330	6.10	mg/kg dry	5	P7C0706	03/07/17	03/10/17	EPA 300.0	
% Moisture	18.0	0.1	%	1	P7C0604	03/06/17	03/06/17	% calculation	

Permian Basin Environmental Lab, L.P.

Burnett Oil Company, Inc.		Proje	ect: Water l	Flood				Fax:	
24 Smith Road Suite 100	I	Project Numb	er: [none]						
Midland TX, 79705	Р	roject Manag	ger: Johnny	Titsworth					
		S	P2 2-3.0						
		7C03	011-08 (So	il)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Permi	an Basin E	nvironme	ntal Lab, I	L.P.				
General Chemistry Parameters by E	PA / Standard Methods								
Chloride	378	1.16	mg/kg dry	1	P7C0706	03/07/17	03/10/17	EPA 300.0	
% Moisture	14.0	0.1	%	1	P7C0604	03/06/17	03/06/17	% calculation	

% Moisture

Project: Water Flood Project Number: [none] Project Manager: Johnny Titsworth

Fax:

% calculation

			P3 0-1.0 011-09 (So	il)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Permia	n Basin E	nvironme	ntal Lab, l	L .P.				
General Chemistry Parame	eters by EPA / Standard Methods								
Chloride	6030	27.2	mg/kg dry	25	P7C0706	03/07/17	03/10/17	EPA 300.0	

%

1

P7C0604

03/06/17

03/06/17

0.1

8.0

Burnett Oil Company, Inc.		Proj	ect: Water l	Flood				Fax:	
24 Smith Road Suite 100]	Project Num	ber: [none]						
Midland TX, 79705	Р	roject Mana	ger: Johnny	Titsworth					
		S	P3 1-2.0						
		7C03	011-10 (So	il)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	an Basin F	Environme	ntal Lab, I	L.P.				
General Chemistry Parameters by E	PA / Standard Methods								
Chloride	23100	56.2	mg/kg dry	50	P7C0706	03/07/17	03/10/17	EPA 300.0	
% Moisture	11.0	0.1	%	1	P7C0604	03/06/17	03/06/17	% calculation	

Burnett Oil Company, Inc.		Proj	ect: Water l	Flood				Fax:	
24 Smith Road Suite 100	I	Project Num	per: [none]						
Midland TX, 79705	P	roject Manaş	ger: Johnny	Titsworth					
		S	P3 2-3.0						
		7C03	011-11 (So	il)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Permi	an Basin E	nvironme	ntal Lab, I	L.P.				
General Chemistry Parameters by E	PA / Standard Methods								
Chloride	15200	57.5	mg/kg dry	50	P7C0706	03/07/17	03/10/17	EPA 300.0	
% Moisture	13.0	0.1	%	1	P7C0604	03/06/17	03/06/17	% calculation	

Burnett Oil Company, Inc.		Proj	ect: Water I	Flood				Fax:	
24 Smith Road Suite 100]	Project Num	ber: [none]						
Midland TX, 79705	F	roject Mana	ger: Johnny	Titsworth					
		S	P3 3-4.0						
		7C03	011-12 (So	il)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	ian Basin F	Environme	ntal Lab, I	L.P.				
General Chemistry Parameters by E	PA / Standard Methods								
Chloride	5060	29.1	mg/kg dry	25	P7C0706	03/07/17	03/10/17	EPA 300.0	
% Moisture	14.0	0.1	%	1	P7C0604	03/06/17	03/06/17	% calculation	

Burnett Oil Company, Inc. 24 Smith Road Suite 100 Midland TX, 79705	Project:Water FloodFaProject Number:[none]Project Manager:Johnny Titsworth									
			23 4-5.0 11-13 (So	il)						
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes	
		an Basin Ei	ivironme	ntal Lab, I	L.P.					
<u>General Chemistry Parameters by E</u> Chloride	<u>PA / Standard Methods</u> 3420		mg/kg dry	10	P7C0706	03/07/17	03/10/17	EPA 300.0		

0.1

%

1

P7C0604

03/06/17

03/06/17

% calculation

10.0

% Moisture

Burnett Oil Company, Inc.		Proje	ct: Water l	Flood				Fax:	
24 Smith Road Suite 100]	Project Numb	er: [none]						
Midland TX, 79705	Р	roject Manag	er: Johnny	Titsworth					
		SI	94 0-1.0						
		7C030	11-14 (So	il)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	ian Basin E	nvironme	ntal Lab, I	P.				
General Chemistry Parameters by E	PA / Standard Methods								
Chloride	2110	10.8	mg/kg dry	10	P7C0706	03/07/17	03/10/17	EPA 300.0	

1

P7C0604

03/06/17

03/06/17

% calculation

0.1

7.0

% Moisture

Burnett Oil Company, Inc.	Project: Water Flood Fax:									
24 Smith Road Suite 100		Project Numl	per: [none]							
Midland TX, 79705	F	Project Manager: Johnny Titsworth								
		S	P4 1-2.0							
		7C03	011-15 (So	il)						
		Reporting								
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes	
	Perm	ian Basin E	nvironme	ntal Lab, l	L .P.					
General Chemistry Parameters by E	PA / Standard Methods									
Chloride	745	1.04	mg/kg dry	1	P7C0706	03/07/17	03/10/17	EPA 300.0		
% Moisture	4.0	0.1	%	1	P7C0604	03/06/17	03/06/17	% calculation		

Burnett Oil Company, Inc.		Proje	ct: Water l	Flood				Fax:	
24 Smith Road Suite 100	F	Project Numb	er: [none]						
Midland TX, 79705	P	roject Manag	er: Johnny	Titsworth					
		SI	P4 2-3.0						
		7C030)11-16 (So	il)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Permi	an Basin E	nvironme	ntal Lab, I	L .P.				
General Chemistry Parameters by E	PA / Standard Methods								
Chloride	4390	26.0	mg/kg dry	25	P7C0706	03/07/17	03/10/17	EPA 300.0	

1

P7C0604

03/06/17

03/06/17

% calculation

0.1

4.0

% Moisture

Burnett Oil Company, Inc.		Proj	ect: Water l	Flood				Fax:	
24 Smith Road Suite 100]	Project Num	per: [none]						
Midland TX, 79705	Р	roject Manaş	ger: Johnny	Titsworth					
		S	P4 3-4.0						
		7C03	011-17 (So	il)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	an Basin E	nvironme	ntal Lab, l	L. P.				
General Chemistry Parameters by El	PA / Standard Methods								
Chloride	1690	5.32	mg/kg dry	5	P7C0706	03/07/17	03/10/17	EPA 300.0	
% Moisture	6.0	0.1	%	1	P7C0604	03/06/17	03/06/17	% calculation	

Burnett Oil Company, Inc.		Proje	ct: Water I	Flood				Fax:	
24 Smith Road Suite 100	I	Project Numb	er: [none]						
Midland TX, 79705	Р	roject Manag	er: Johnny	Titsworth					
		SI	P4 4-5.0						
		7C030)11-18 (So	il)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Permi	an Basin E	nvironme	ntal Lab, I	P.				
General Chemistry Parameters by E	PA / Standard Methods								
Chloride	1770	5.43	mg/kg dry	5	P7C0706	03/07/17	03/10/17	EPA 300.0	

1

P7C0604

03/06/17

03/06/17

% calculation

0.1

8.0

% Moisture

Burnett Oil Company, Inc.		Proje	ct: Water l	Flood				Fax:	
24 Smith Road Suite 100]	Project Numb	er: [none]						
Midland TX, 79705 Project Manager: Johnny Titsworth									
		SI	P5 0-1.0						
		7C03)11-19 (So	il)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	ian Basin E	nvironme	ntal Lab, l	L .P.				
General Chemistry Parameters by E	CPA / Standard Methods								
Chloride	5400	25.8	mg/kg dry	25	P7C0706	03/07/17	03/10/17	EPA 300.0	

1

P7C0604

03/06/17

03/06/17

% calculation

0.1

3.0

% Moisture

Burnett Oil Company, Inc.		Proj	ect: Water	Flood				Fax:	
24 Smith Road Suite 100	1	Project Num	per: [none]						
Midland TX, 79705	F	roject Mana	ger: Johnny	Titsworth					
		S	P5 1-2.0						
		7C03	011-20 (So	il)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	ian Basin F	nvironme	ntal Lab, l	L. P.				
General Chemistry Parameters by E	PA / Standard Methods								
Chloride	4670	25.8	mg/kg dry	25	P7C0706	03/07/17	03/10/17	EPA 300.0	
% Moisture	3.0	0.1	%	1	P7C0604	03/06/17	03/06/17	% calculation	

Burnett Oil Company, Inc.		Proj	ect: Water l	Flood				Fax:	
24 Smith Road Suite 100	1	Project Num	ber: [none]						
Midland TX, 79705	Р	roject Mana	ger: Johnny	Titsworth					
		S	P5 2-3.0						
		7C03	011-21 (So	il)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	ian Basin E	Cnvironme	ntal Lab, l	L. P.				
General Chemistry Parameters by E	PA / Standard Methods								
Chloride	2480	10.9	mg/kg dry	10	P7C0706	03/07/17	03/10/17	EPA 300.0	
% Moisture	8.0	0.1	%	1	P7C0604	03/06/17	03/06/17	% calculation	

Burnett Oil Company, Inc.		Proj	ect: Water l	Flood				Fax:	
24 Smith Road Suite 100]	Project Numl	per: [none]						
Midland TX, 79705	F	roject Mana	ger: Johnny	Titsworth					
		S	P5 3-4.0						
		7C03	011-22 (So	il)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	ian Basin E	nvironme	ntal Lab, l	L. P.				
General Chemistry Parameters by E	PA / Standard Methods								
Chloride	441	1.05	mg/kg dry	1	P7C0706	03/07/17	03/10/17	EPA 300.0	
% Moisture	5.0	0.1	%	1	P7C0604	03/06/17	03/06/17	% calculation	

Burnett Oil Company, Inc.		Proj	ect: Water	Flood				Fax:	
24 Smith Road Suite 100		Project Numl	ber: [none]						
Midland TX, 79705	F	Project Manag	ger: Johnny	Titsworth					
		S	P5 4-5.0						
		7C03	011-23 (So	il)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	ian Basin E	Invironme	ntal Lab, I	L.P.				
General Chemistry Parameters by E	PA / Standard Methods	5							
Chloride	1800	5.68	mg/kg dry	5	P7C0706	03/07/17	03/10/17	EPA 300.0	
% Moisture	12.0	0.1	%	1	P7C0604	03/06/17	03/06/17	% calculation	

Burnett Oil Company, Inc.		Proje	ct: Water l	Flood				Fax:	
24 Smith Road Suite 100	Ι	Project Numb	er: [none]						
Midland TX, 79705	Р	roject Manag	er: Johnny	Titsworth					
		SI	P6 0-1.0						
		7C030	11-24 (So	il)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Permi	an Basin E	nvironme	ntal Lab, I	L .P.				
General Chemistry Parameters by E	PA / Standard Methods								
Chloride	5160	25.8	mg/kg dry	25	P7C0706	03/07/17	03/10/17	EPA 300.0	

1

P7C0604

03/06/17

03/06/17

% calculation

0.1

3.0

% Moisture

Burnett Oil Company, Inc.		Fax:							
24 Smith Road Suite 100	I	Project Number: [none]							
Midland TX, 79705	Р	roject Mana	ger: Johnny	Titsworth					
		S	P6 1-2.0						
		7C03	011-25 (So	il)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Permi	an Basin F	Cnvironme	ntal Lab, l	L .P.				
General Chemistry Parameters by E	PA / Standard Methods								
Chloride	7550	26.3	mg/kg dry	25	P7C1005	03/10/17	03/14/17	EPA 300.0	
% Moisture	5.0	0.1	%	1	P7C0604	03/06/17	03/06/17	% calculation	

Burnett Oil Company, Inc.		Fax:							
24 Smith Road Suite 100		Project Num	ber: [none]						
Midland TX, 79705	F	Project Mana	ger: Johnny	Titsworth					
		S	P6 2-3.0						
		7C03	011-26 (So	il)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	ian Basin F	Cnvironme	ntal Lab, l	L. P.				
General Chemistry Parameters by E	PA / Standard Methods	š							
Chloride	8230	26.3	mg/kg dry	25	P7C1005	03/10/17	03/14/17	EPA 300.0	
% Moisture	5.0	0.1	%	1	P7C0604	03/06/17	03/06/17	% calculation	

Burnett Oil Company, Inc.		Fax:							
24 Smith Road Suite 100]	Project Num	ber: [none]						
Midland TX, 79705	F	roject Mana	ger: Johnny	Titsworth					
		S	P6 3-4.0						
		7C03	011-27 (So	il)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	ian Basin F	Environme	ntal Lab, I	L. P.				
General Chemistry Parameters by E	PA / Standard Methods								
Chloride	7760	26.3	mg/kg dry	25	P7C1005	03/10/17	03/14/17	EPA 300.0	
% Moisture	5.0	0.1	%	1	P7C0604	03/06/17	03/06/17	% calculation	

Burnett Oil Company, Inc.	y, Inc. Project: Water Flood									
24 Smith Road Suite 100]	Project Numb	er: [none]							
Midland TX, 79705	Р	roject Manag	er: Johnny	Titsworth						
		SI	P6 4-5.0							
		7C03)11-28 (So	il)						
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes	
	Perm	ian Basin E	nvironme	ntal Lab, l	L.P.					
General Chemistry Parameters by E	PA / Standard Methods									
Chloride	8660	26.3	mg/kg dry	25	P7C1005	03/10/17	03/14/17	EPA 300.0		

1

P7C0604

03/06/17

03/06/17

% calculation

0.1

5.0

% Moisture

Project: Water Flood Project Number: [none] Project Manager: Johnny Titsworth

Fax:

SP7 0-1.0

7C03011-29 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin F	Invironmen	tal Lab,	L .P.				
Organics by GC									
Benzene	ND	0.0208	mg/kg dry	20	P7C0812	03/08/17	03/08/17	EPA 8021B	
Toluene	ND	0.0417	mg/kg dry	20	P7C0812	03/08/17	03/08/17	EPA 8021B	
Ethylbenzene	ND	0.0208	mg/kg dry	20	P7C0812	03/08/17	03/08/17	EPA 8021B	
Xylene (p/m)	ND	0.0417	mg/kg dry	20	P7C0812	03/08/17	03/08/17	EPA 8021B	
Xylene (o)	ND	0.0208	mg/kg dry	20	P7C0812	03/08/17	03/08/17	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		98.8 %	75-1	25	P7C0812	03/08/17	03/08/17	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		110 %	75-1.	25	P7C0812	03/08/17	03/08/17	EPA 8021B	
General Chemistry Parameters by El	PA / Standard Method	s							
Chloride	4650	26.0	mg/kg dry	25	P7C1005	03/10/17	03/14/17	EPA 300.0	
% Moisture	4.0	0.1	%	1	P7C0604	03/06/17	03/06/17	% calculation	
Total Petroleum Hydrocarbons C6-C	35 by EPA Method 80	15M							
C6-C12	33.1	26.0	mg/kg dry	1	P7C0807	03/07/17	03/07/17	TPH 8015M	
>C12-C28	190	26.0	mg/kg dry	1	P7C0807	03/07/17	03/07/17	TPH 8015M	
>C28-C35	37.3	26.0	mg/kg dry	1	P7C0807	03/07/17	03/07/17	TPH 8015M	
Surrogate: 1-Chlorooctane		93.2 %	70-1.	30	P7C0807	03/07/17	03/07/17	TPH 8015M	
Surrogate: o-Terphenyl		99.4 %	70-1.	30	P7C0807	03/07/17	03/07/17	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	261	26.0	mg/kg dry	1	[CALC]	03/07/17	03/07/17	calc	

Burnett Oil Company, Inc.		Proj	ect: Water	Flood				Fax:	
24 Smith Road Suite 100]	Project Numl	per: [none]						
Midland TX, 79705	F	roject Mana	ger: Johnny	Titsworth					
		S	P7 1-2.0						
		7C03	011-30 (So	il)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	ian Basin E	nvironme	ntal Lab, l	L. P.				
General Chemistry Parameters by E	PA / Standard Methods								
Chloride	4350	26.9	mg/kg dry	25	P7C1005	03/10/17	03/14/17	EPA 300.0	
% Moisture	7.0	0.1	%	1	P7C0604	03/06/17	03/06/17	% calculation	

Burnett Oil Company, Inc.		Proj	ect: Water l	Flood				Fax:	
24 Smith Road Suite 100		Project Num	ber: [none]						
Midland TX, 79705	F	Project Mana	ger: Johnny	Titsworth					
		S	P7 2-3.0						
		7C03	011-31 (So	il)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	ian Basin F	Cnvironme	ntal Lab, l	L. P.				
General Chemistry Parameters by E	PA / Standard Methods	š							
Chloride	1030	5.26	mg/kg dry	5	P7C1005	03/10/17	03/14/17	EPA 300.0	
% Moisture	5.0	0.1	%	1	P7C0604	03/06/17	03/06/17	% calculation	

Burnett Oil Company, Inc.		Fax:							
24 Smith Road Suite 100]	Project Numl	per: [none]						
Midland TX, 79705	F	roject Mana	ger: Johnny	Titsworth					
		S	P7 3-4.0						
		7C03	011-32 (So	il)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	ian Basin E	nvironme	ntal Lab, I	L.P.				
General Chemistry Parameters by E	PA / Standard Methods								
Chloride	762	5.38	mg/kg dry	5	P7C1005	03/10/17	03/14/17	EPA 300.0	
% Moisture	7.0	0.1	%	1	P7C0604	03/06/17	03/06/17	% calculation	

Burnett Oil Company, Inc.		Proje	ct: Water	Flood				Fax:	
24 Smith Road Suite 100	F	roject Numb	er: [none]						
Midland TX, 79705	P	roject Manag	er: Johnny	Titsworth					
		SI	P7 4-5.0						
		7C030)11-33 (So	il)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Permi	an Basin E	nvironme	ntal Lab, I	P.				
General Chemistry Parameters by El	PA / Standard Methods								
Chloride	653	1.04	mg/kg dry	1	P7C1005	03/10/17	03/14/17	EPA 300.0	

1

P7C0604

03/06/17

03/06/17

% calculation

0.1

4.0

% Moisture

Project: Water Flood Project Number: [none] Project Manager: Johnny Titsworth

Fax:

SP8 0-1.0

7C03011-34 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	iian Basin E	nvironme	ntal Lab, 1	L .P.				
Organics by GC									
Benzene	ND	0.0217	mg/kg dry	20	P7C0812	03/08/17	03/08/17	EPA 8021B	
Toluene	ND	0.0435	mg/kg dry	20	P7C0812	03/08/17	03/08/17	EPA 8021B	
Ethylbenzene	ND	0.0217	mg/kg dry	20	P7C0812	03/08/17	03/08/17	EPA 8021B	
Xylene (p/m)	ND	0.0435	mg/kg dry	20	P7C0812	03/08/17	03/08/17	EPA 8021B	
Xylene (o)	ND	0.0217	mg/kg dry	20	P7C0812	03/08/17	03/08/17	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		100 %	75-1	25	P7C0812	03/08/17	03/08/17	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		98.9 %	75-1	25	P7C0812	03/08/17	03/08/17	EPA 8021B	
General Chemistry Parameters by El	PA / Standard Method	S							
Chloride	11200	27.2	mg/kg dry	25	P7C1005	03/10/17	03/14/17	EPA 300.0	
% Moisture	8.0	0.1	%	1	P7C0604	03/06/17	03/06/17	% calculation	
Total Petroleum Hydrocarbons C6-C	35 by EPA Method 80	15M							
C6-C12	34.8	27.2	mg/kg dry	1	P7C0807	03/07/17	03/07/17	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P7C0807	03/07/17	03/07/17	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P7C0807	03/07/17	03/07/17	TPH 8015M	
Surrogate: 1-Chlorooctane		87.3 %	70-1	30	P7C0807	03/07/17	03/07/17	TPH 8015M	
Surrogate: o-Terphenyl		92.7 %	70-1	30	P7C0807	03/07/17	03/07/17	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	34.8	27.2	mg/kg dry	1	[CALC]	03/07/17	03/07/17	calc	

Permian Basin Environmental Lab, L.P.

Burnett Oil Company, Inc.		Proj	ect: Water	Flood				Fax:	
24 Smith Road Suite 100]	Project Num	ber: [none]						
Midland TX, 79705	F	roject Mana	ger: Johnny	Titsworth					
		S	P8 1-2.0						
		7C03	011-35 (So	il)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	ian Basin F	Invironme	ntal Lab, I	L. P.				
General Chemistry Parameters by E	PA / Standard Methods								
Chloride	6560	26.0	mg/kg dry	25	P7C1005	03/10/17	03/14/17	EPA 300.0	
% Moisture	4.0	0.1	%	1	P7C0604	03/06/17	03/06/17	% calculation	

General Chemistry Parameters b		n Basin I	Environmen	tal Lab,	L.P.				
Chloride	8600	26.6	mg/kg dry	25	P7C1005	03/10/17	03/14/17	EPA 300.0	
% Moisture	6.0	0.1	%	1	P7C0604	03/06/17	03/06/17	% calculation	

Permian Basin Environmental Lab, L.P.

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

Fax:

Notes

Method

Burnett Oil Company, Inc.										
24 Smith Road Suite 100]	Project Num	ber: [none]							
Midland TX, 79705	F	roject Mana	ger: Johnny	Titsworth						
		S	P8 3-4.0							
		7C03	011-37 (So	il)						
		Reporting								
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes	
	Perm	ian Basin F	Cnvironme	ntal Lab, 1	L. P.					
General Chemistry Parameters by E	PA / Standard Methods									
Chloride	9110	26.3	mg/kg dry	25	P7C1005	03/10/17	03/14/17	EPA 300.0		
% Moisture	5.0	0.1	%	1	P7C0604	03/06/17	03/06/17	% calculation		

% Moisture

Project: Water Flood Project Number: [none] Project Manager: Johnny Titsworth

Fax:

			P8 4-5.0 011-38 (So	il)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Permi	an Basin E	nvironme	ntal Lab, 1	L. P.				
General Chemistry Parame	eters by EPA / Standard Methods								
Chloride	6640	26.3	mg/kg dry	25	P7C1005	03/10/17	03/14/17	EPA 300.0	

%

1

P7C0604

03/06/17

03/06/17

% calculation

0.1

5.0

Permian Basin Environmental Lab, L.P.

Project: Water Flood Project Number: [none] Project Manager: Johnny Titsworth

Fax:

SP9 0-1.0

7C03011-39 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin H	Environmen	ital Lab, l	L .P.				
Organics by GC									
Benzene	ND	0.00111	mg/kg dry	1	P7C0812	03/08/17	03/08/17	EPA 8021B	
Toluene	ND	0.00222	mg/kg dry	1	P7C0812	03/08/17	03/08/17	EPA 8021B	
Ethylbenzene	ND	0.00111	mg/kg dry	1	P7C0812	03/08/17	03/08/17	EPA 8021B	
Xylene (p/m)	ND	0.00222	mg/kg dry	1	P7C0812	03/08/17	03/08/17	EPA 8021B	
Xylene (o)	ND	0.00111	mg/kg dry	1	P7C0812	03/08/17	03/08/17	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		105 %	75-1.	25	P7C0812	03/08/17	03/08/17	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		100 %	75-1.	25	P7C0812	03/08/17	03/08/17	EPA 8021B	
General Chemistry Parameters by El	PA / Standard Method	ls							
Chloride	13000	55.6	mg/kg dry	50	P7C1005	03/10/17	03/14/17	EPA 300.0	
% Moisture	10.0	0.1	%	1	P7C0604	03/06/17	03/06/17	% calculation	
Total Petroleum Hydrocarbons C6-C	35 by EPA Method 80	15M							
C6-C12	ND	27.8	mg/kg dry	1	P7C0807	03/07/17	03/07/17	TPH 8015M	
>C12-C28	28.0	27.8	mg/kg dry	1	P7C0807	03/07/17	03/07/17	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P7C0807	03/07/17	03/07/17	TPH 8015M	
Surrogate: 1-Chlorooctane		90.5 %	70-1.	30	P7C0807	03/07/17	03/07/17	TPH 8015M	
Surrogate: o-Terphenyl		96.9 %	70-1.	30	P7C0807	03/07/17	03/07/17	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	28.0	27.8	mg/kg dry	1	[CALC]	03/07/17	03/07/17	calc	

Permian Basin Environmental Lab, L.P.

Burnett Oil Company, Inc.	Project: Water Flood Fax:									
24 Smith Road Suite 100]	Project Numl	ber: [none]							
Midland TX, 79705	F	roject Mana	ger: Johnny	Titsworth						
		S	P9 1-2.0							
		7C03	011-40 (So	il)						
		Reporting								
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes	
	Perm	ian Basin E	Cnvironme	ntal Lab, l	L. P.					
General Chemistry Parameters by E	PA / Standard Methods									
Chloride	3750	27.2	mg/kg dry	25	P7C1005	03/10/17	03/14/17	EPA 300.0		
% Moisture	8.0	0.1	%	1	P7C0604	03/06/17	03/06/17	% calculation		

Burnett Oil Company, Inc.		Proj	ect: Water l	Flood				Fax:	
24 Smith Road Suite 100		Project Numl	ber: [none]						
Midland TX, 79705	F	Project Manag	ger: Johnny	Titsworth					
		S	P9 2-3.0						
		7C03	011-41 (So	il)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	ian Basin E	Cnvironme	ntal Lab, l	L. P.				
General Chemistry Parameters by E	PA / Standard Methods	5							
Chloride	6530	27.5	mg/kg dry	25	P7C1005	03/10/17	03/14/17	EPA 300.0	
% Moisture	9.0	0.1	%	1	P7C0604	03/06/17	03/06/17	% calculation	

Burnett Oil Company, Inc.	Project: Water Flood Fa Project Number: [none]									
24 Smith Road Suite 100]	Project Num	per: [none]							
Midland TX, 79705	Р	roject Mana	ger: Johnny	Titsworth						
		S	P9 3-4.0							
		7C03	011-42 (So	il)						
		Reporting								
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes	
	Perm	an Basin E	nvironme	ntal Lab, l	L. P.					
General Chemistry Parameters by E	PA / Standard Methods									
Chloride	4410	26.9	mg/kg dry	25	P7C1005	03/10/17	03/14/17	EPA 300.0		
% Moisture	7.0	0.1	%	1	P7C0604	03/06/17	03/06/17	% calculation		

% Moisture

Project: Water Flood Project Number: [none] Project Manager: Johnny Titsworth

Fax:

			P9 4-5.0 011-43 (So	il)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Permi	an Basin E	nvironme	ıtal Lab, I	L .P.				
General Chemistry Parame	eters by EPA / Standard Methods								
Chloride	2850	10.5	mg/kg dry	10	P7C1005	03/10/17	03/14/17	EPA 300.0	

%

1

P7C0604

03/06/17

03/06/17

% calculation

0.1

5.0

Permian Basin Environmental Lab, L.P.

Г

Project: Water Flood Project Number: [none] Project Manager: Johnny Titsworth

Fax:

SP10 0-1.0

7C03011-44 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin F	Invironme	ntal Lab, 1	L. P.				
Organics by GC									
Benzene	0.00258	0.00118	mg/kg dry	1	P7C0812	03/08/17	03/08/17	EPA 8021B	
Toluene	0.00246	0.00235	mg/kg dry	1	P7C0812	03/08/17	03/08/17	EPA 8021B	
Ethylbenzene	ND	0.00118	mg/kg dry	1	P7C0812	03/08/17	03/08/17	EPA 8021B	
Xylene (p/m)	0.00307	0.00235	mg/kg dry	1	P7C0812	03/08/17	03/08/17	EPA 8021B	
Xylene (o)	ND	0.00118	mg/kg dry	1	P7C0812	03/08/17	03/08/17	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		104 %	75-1	25	P7C0812	03/08/17	03/08/17	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		108 %	75-1	25	P7C0812	03/08/17	03/08/17	EPA 8021B	
General Chemistry Parameters by E	PA / Standard Method	ls							
Chloride	22200	58.8	mg/kg dry	50	P7C1005	03/10/17	03/14/17	EPA 300.0	
% Moisture	15.0	0.1	%	1	P7C0604	03/06/17	03/06/17	% calculation	
Total Petroleum Hydrocarbons C6-C	C35 by EPA Method 80	15M							
C6-C12	33.6	29.4	mg/kg dry	1	P7C0807	03/07/17	03/08/17	TPH 8015M	
>C12-C28	ND	29.4	mg/kg dry	1	P7C0807	03/07/17	03/08/17	TPH 8015M	
>C28-C35	ND	29.4	mg/kg dry	1	P7C0807	03/07/17	03/08/17	TPH 8015M	
Surrogate: 1-Chlorooctane		86.5 %	70-1	30	P7C0807	03/07/17	03/08/17	TPH 8015M	
Surrogate: o-Terphenyl		92.6 %	70-1	30	P7C0807	03/07/17	03/08/17	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	33.6	29.4	mg/kg dry	1	[CALC]	03/07/17	03/08/17	calc	

Burnett Oil Company, Inc.		Proj	ect: Water l	Flood				Fax:	
24 Smith Road Suite 100	F	Project Num	ber: [none]						
Midland TX, 79705	P	roject Manaş	ger: Johnny	Titsworth					
		SI	210 1-2.0						
		7C03	011-45 (So	il)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Permi	an Basin E	nvironme	ntal Lab, I	L.P.				
General Chemistry Parameters by El	PA / Standard Methods								
Chloride	3570	27.2	mg/kg dry	25	P7C1006	03/10/17	03/14/17	EPA 300.0	
% Moisture	8.0	0.1	%	1	P7C0604	03/06/17	03/06/17	% calculation	

Burnett Oil Company, Inc.			ect: Water	Flood				Fax:	
24 Smith Road Suite 100		Project Num							
Midland TX, 79705	F	roject Mana	ger: Johnny	Titsworth					
		SI	P10 2-3.0						
		7C03	011-46 (So	il)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	ian Basin F	nvironme	ntal Lab, l	L. P.				
General Chemistry Parameters by E	PA / Standard Methods								
Chloride	4950	26.3	mg/kg dry	25	P7C1006	03/10/17	03/14/17	EPA 300.0	
% Moisture	5.0	0.1	%	1	P7C0604	03/06/17	03/06/17	% calculation	

SP10 3-4.0	
7C03011-47 (Soil)	

	Permian	Basin E	Environment	al Lab,	L.P.				
General Chemistry Parameters by EP.	A / Standard Methods								
Chloride	6130	26.6	mg/kg dry	25	P7C1006	03/10/17	03/14/17	EPA 300.0	
% Moisture	6.0	0.1	%	1	P7C0604	03/06/17	03/06/17	% calculation	

Fax:

Notes

Method

Project: Water Flood Project Number: [none] Project Manager: Johnny Titsworth

Fax:

i	SP	10	4-	5.0

7C03011-48 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes		
Permian Basin Environmental Lab, L.P.											
General Chemistry Parameters	s by EPA / Standard Methods										
Chloride	5250	26.0	mg/kg dry	25	P7C1006	03/10/17	03/14/17	EPA 300.0			
% Moisture	4.0	0.1	%	1	P7C0604	03/06/17	03/06/17	% calculation			

Project: Water Flood Project Number: [none] Project Manager: Johnny Titsworth

Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	27
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P7C0812 - General Preparation	(GC)									
Blank (P7C0812-BLK1)				Prepared &	Analyzed:	03/08/17				
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	0.0607		"	0.0600		101	75-125			
Surrogate: 4-Bromofluorobenzene	0.0616		"	0.0600		103	75-125			
LCS (P7C0812-BS1)				Prepared &	Analyzed:	03/08/17				
Benzene	0.0840	0.00100	mg/kg wet	0.100		84.0	70-130			
Toluene	0.0859	0.00200	"	0.100		85.9	70-130			
Ethylbenzene	0.100	0.00100	"	0.100		100	70-130			
Xylene (p/m)	0.187	0.00200		0.200		93.3	70-130			
Xylene (o)	0.0922	0.00100		0.100		92.2	70-130			
Surrogate: 1,4-Difluorobenzene	0.0610		"	0.0600		102	75-125			
Surrogate: 4-Bromofluorobenzene	0.0644		"	0.0600		107	75-125			
LCS Dup (P7C0812-BSD1)				Prepared &	Analyzed:	03/08/17				
Benzene	0.0863	0.00100	mg/kg wet	0.100		86.3	70-130	2.71	20	
Toluene	0.0925	0.00200	"	0.100		92.5	70-130	7.48	20	
Ethylbenzene	0.110	0.00100		0.100		110	70-130	9.16	20	
Xylene (p/m)	0.198	0.00200		0.200		99.1	70-130	6.06	20	
Xylene (o)	0.0990	0.00100		0.100		99.0	70-130	7.09	20	
Surrogate: 1,4-Difluorobenzene	0.0645		"	0.0600		108	75-125			
Surrogate: 4-Bromofluorobenzene	0.0681		"	0.0600		114	75-125			
Matrix Spike (P7C0812-MS1)	Sou	rce: 7C03011	-39	Prepared &	Analyzed:	03/08/17				
Benzene	0.0812	0.00111	mg/kg dry	0.111	ND	73.1	80-120			QM-0
Toluene	0.0626	0.00222	"	0.111	0.000611	55.8	80-120			QM-0
Ethylbenzene	0.0447	0.00111		0.111	ND	40.2	80-120			QM-0
Xylene (p/m)	0.0814	0.00222		0.222	0.00103	36.2	80-120			QM-0
Xylene (o)	0.0403	0.00111		0.111	ND	36.3	80-120			QM-0
Surrogate: 1,4-Difluorobenzene	0.0676		"	0.0667		101	75-125			
Surrogate: 4-Bromofluorobenzene	0.0724		"	0.0667		109	75-125			

Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

i.ep	orting	Spike	Source		%REC		RPD	
Analyte Result	Limit Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch P7C0812 - General Preparation (GC)

Matrix Spike Dup (P7C0812-MSD1)	Sour	ce: 7C03011	-39	Prepared &	& Analyzed:	03/08/17				
Benzene	0.121	0.00111	mg/kg dry	0.111	ND	109	80-120	39.2	20	R3
Toluene	0.116	0.00222	"	0.111	0.000611	104	80-120	60.0	20	R3
Ethylbenzene	0.113	0.00111	"	0.111	ND	102	80-120	86.9	20	R3
Xylene (p/m)	0.206	0.00222	"	0.222	0.00103	92.5	80-120	87.6	20	R3
Xylene (o)	0.104	0.00111	"	0.111	ND	93.6	80-120	88.2	20	R3
Surrogate: 1,4-Difluorobenzene	0.0766		"	0.0667		115	75-125			
Surrogate: 4-Bromofluorobenzene	0.0814		"	0.0667		122	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 P7C0604 - *** DEFAULT PREP ***										
Blank (P7C0604-BLK1)				Prepared &	Analyzed:	03/06/17				
% Moisture	ND	0.1	%							
Blank (P7C0604-BLK2)				Prepared &	Analyzed:	03/06/17				
% Moisture	ND	0.1	%							
Blank (P7C0604-BLK3)				Prepared &	Analyzed:	03/06/17				
% Moisture	ND	0.1	%							
Duplicate (P7C0604-DUP1)	Sou	rce: 7C03007-	-01	Prepared &	Analyzed:	03/06/17				
% Moisture	3.0	0.1	%		3.0			0.00	20	
Duplicate (P7C0604-DUP2)	Sou	rce: 7C03009-	-23	Prepared &	Analyzed:	03/06/17				
% Moisture	11.0	0.1	%		11.0			0.00	20	
Duplicate (P7C0604-DUP3)	Sou	rce: 7C03010-	05	Prepared &	Analyzed:	03/06/17				
% Moisture	10.0	0.1	%		11.0			9.52	20	
Duplicate (P7C0604-DUP4)	Sou	rce: 7C03011-	13	Prepared &	Analyzed:	03/06/17				
% Moisture	10.0	0.1	%		10.0			0.00	20	
Duplicate (P7C0604-DUP5)	Sou	rce: 7C03011-	38	Prepared &	Analyzed:	03/06/17				
% Moisture	5.0	0.1	%		5.0			0.00	20	
Duplicate (P7C0604-DUP6)	Sou	rce: 7C03012-	-16	Prepared &	Analyzed:	03/06/17				
% Moisture	5.0	0.1	%	*	4.0			22.2	20	F
Duplicate (P7C0604-DUP7)	Sou	rce: 7C03014-	08	Prepared &	Analyzed:	03/06/17				
% Moisture	4.0	0.1	%	1	8.0			66.7	20	F

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permi	an Basin	Enviror	nmental l	L <mark>ab, L.P</mark>					
Reporting			Spike	Source	RPD				
Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Sour	ce: 7C03016	-06	Prepared &	Analyzed:	03/06/17				
16.0	0.1	%		17.0			6.06	20	
Sour	ce: 7C03016	-13	Prepared &	Analyzed:					
11.0	0.1	%		12.0			8.70	20	
			Prepared: (03/07/17 A	nalyzed: 03	/10/17			
ND	1.00	mg/kg wet							
			Prepared: (03/07/17 A	nalyzed: 03	/10/17			
437	1.00	mg/kg wet	400		109	80-120			
			Prepared: ()3/07/17 A	nalyzed: 03	/10/17			
433	1.00	mg/kg wet	400		108	80-120	0.895	20	
Sour	ce: 7C03010	-04	Prepared: ()3/07/17 A	nalyzed: 03	/10/17			
1570	11.2	mg/kg dry		1550			0.894	20	
Sour	ce: 7C03010	-14	Prepared: ()3/07/17 A	nalyzed: 03	/10/17			
1340	5.88	mg/kg dry	Iry 1360					20	
Sour	co: 7C03010	-04	Prenared ()3/07/17 A					
	Result Sour 16.0 Sour 11.0 ND 437 433 Sour 1570 Sour 1340	Result Reporting Limit Source: 7C03016 16.0 0.1 Source: 7C03016 11.0 0.1 ND 1.00 433 1.00 Source: 7C03010 1570 11.2 Source: 7C03010 1340 5.88	Result Limit Units Source: TC03016-05 16.0 0.1 % Source: TC03016-13 11.0 0.1 % ND 0.1 % % 11.0 % 433 1.00 mg/kg wet 1570 11.2 mg/kg dry Source: TC03010-14 10.0	Reporting Encode Spike Limit Spike Units Spike Level Source: 7C03016-06 Prepared & Prepared & 16.0 0.1 % Source: 7C03016-13 Prepared & Prepared & 11.0 0.1 % 11.0 0.1 % Prepared & Prepared & 11.0 Prepared & Prepared (133) Prepared (1.00 MO 433 1.00 mg/kg wet 400 Prepared (Prepared (1.00 Prepared (1.00 Prepared (1.00 MO 5.88 mg/kg dry Prepared (Prepared (1.00 5.88 mg/kg dry MO	Reporting ResultSpike LimitSource UnitsSource ResultSource: 7C03016-06Prepared & Analyzed:16.00.1%16.00.1%Source: 7C03016-13Prepared & Analyzed:11.00.1%12.0%11.00.1%ND1.00mg/kg wetPrepared: 03/07/17A4371.00mg/kg wet4331.00mg/kg wetSource: 7C03010-04Prepared: 03/07/17A157011.2157011.2mg/kg dry13405.88mg/kg dry13405.88mg/kg dry	Result Limit Units Level Result %REC Source: 7C03016-06 Prepared & Analyzed: 03/06/17 16.0 0.1 % 17.0 Source: 7C03016-13 Prepared & Analyzed: 03/06/17 11.0 0.1 % 12.0 MD 1.00 mg/kg wet Prepared: 03/07/17 Analyzed: 03 MD 1.00 mg/kg wet 400 109 Prepared: 03/07/17 Analyzed: 03 03 433 1.00 mg/kg wet 400 108 Source: 7C03010-04 Prepared: 03/07/17 Analyzed: 03 1570 11.2 mg/kg dry 1550 Source: 7C03010-14 Prepared: 03/07/17 Analyzed: 03 1340 5.88 mg/kg dry 1360	Reporting Result Spike Limit Source Result Source %REC Level %REC Result %REC Limits Source: 7C03016-05 Prepared & Analyzed: 03/06/17 Limits 16.0 0.1 % 17.0 T Source: 7C03016-13 Prepared & Analyzed: 03/06/17 11.0 0.1 % 12.0 T MD 1.00 mg/kg wet Prepared: 03/07/17 Analyzed: 03/10/17 ND 1.00 mg/kg wet 400 109 80-120 Prepared: 03/07/17 Analyzed: 03/10/17 433 1.00 mg/kg wet 400 108 80-120 Source: 7C03010-04 Prepared: 03/07/17 Analyzed: 03/10/17 1570 11.2 mg/kg dry 1550 T T 1340 5.88 mg/kg dry 1360 T T	Reporting Result Spike Limit Spike Units Source Result %REC %REC Limits RPD Source: 7C03016-06 Prepared & Analyzed: 03/06/17 6.06 Source: 7C03016-13 Prepared & Analyzed: 03/06/17 6.06 Source: 7C03016-13 Prepared & Analyzed: 03/06/17 6.06 Source: 7C03016-13 Prepared & Analyzed: 03/06/17 8.70 11.0 0.1 % 12.0 8.70 Prepared: 03/07/17 Analyzed: 03/10/17 ND 1.00 mg/kg wet 400 109 80-120 Prepared: 03/07/17 Analyzed: 03/10/17 433 1.00 mg/kg wet 400 108 80-120 0.895 Source: 7C03010-04 Prepared: 03/07/17 Analyzed: 03/10/17 1570 11.2 mg/kg dry 1550 0.894 Source: 7C03010-14 Prepared: 03/07/17 Analyzed: 03/10/17 1.27	Reporting Result Reporting Limit Spike Units Source Result %REC %REC RPD Limit RPD Limit Source: 7C03016-06 Prepared & Analyzed: 03/06/17 6.06 20 Source: 7C03016-13 Prepared & Analyzed: 03/06/17 6.06 20 Source: 7C03016-13 Prepared & Analyzed: 03/06/17 6.06 20 Source: 7C03016-13 Prepared & Analyzed: 03/06/17 6.06 20 ND 0.1 % 12.0 8.70 20 Prepared: 03/07/17 Analyzed: 03/10/17 8.70 20 MD 1.00 mg/kg wet 400 109 80-120 9 433 1.00 mg/kg wet 400 108 80-120 0.895 20 Source: 7C03010-04 Prepared: 03/07/17 Analyzed: 03/10/17 1570 11.2 mg/kg dry 1550 0.894 20 Source: 7C03010-1-4 <t< td=""></t<>

 Chloride
 2720
 11.2
 mg/kg dry
 1120
 1550
 104
 80-120

Batch P7C0706 - *** DEFAULT PREP ***

 Blank (P7C0706-BLK1)
 Prepared: 03/07/17 Analyzed: 03/10/17

 Chloride
 ND
 1.00 mg/kg wet

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P7C0706 - *** DEFAULT PREP ***										
LCS (P7C0706-BS1)				Prepared:	03/07/17 A	nalyzed: 03	/10/17			
Chloride	425	1.00	mg/kg wet	400		106	80-120			
LCS Dup (P7C0706-BSD1)				Prepared:	03/07/17 A	nalyzed: 03	/10/17			
Chloride	426	1.00	mg/kg wet	400		106	80-120	0.146	20	
Duplicate (P7C0706-DUP1)	Sou	rce: 7C03011	-06	Prepared: (03/07/17 A	nalyzed: 03	/10/17			
Chloride	11700	54.3	mg/kg dry		11200			4.18	20	
Duplicate (P7C0706-DUP2)	Sou	rce: 7C03011	-15	Prepared:	03/07/17 A	nalyzed: 03	/10/17			
Chloride	747	1.04	mg/kg dry		745			0.194	20	
Matrix Spike (P7C0706-MS1)	Source: 7C03011-06		Prepared:	03/07/17 A	nalyzed: 03	/10/17				
Chloride	16900	54.3	mg/kg dry	5430	11200	103	80-120			
Batch P7C1005 - *** DEFAULT PREP ***										
Blank (P7C1005-BLK1)				Prepared: (03/10/17 A	nalyzed: 03	/14/17			
Chloride	ND	1.00	mg/kg wet							
LCS (P7C1005-BS1)				Prepared: (03/10/17 A	analyzed: 03	/14/17			
Chloride	442	1.00	mg/kg wet	400		110	80-120			
LCS Dup (P7C1005-BSD1)				Prepared: (03/10/17 A	analyzed: 03	/14/17			
Chloride	440	1.00	mg/kg wet	400		110	80-120	0.540	20	
Duplicate (P7C1005-DUP1)	Sou	·ce: 7C03011	-25	Prepared: (03/10/17 A	nalyzed: 03	/14/17			
Duplicate (17C1003-DO11)	Sou		-0	i reparea.	JJ/10/17 A	maryzeu. 05	17/1/			

	Pern	nian Basin	Enviror	nmental I	Lab, L.P	•				
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7C1005 - *** DEFAULT PREP ***										
Duplicate (P7C1005-DUP2)	Sou	rce: 7C03011	-35	Prepared: 0	03/10/17 A	nalyzed: 03	/14/17			
Chloride	6530	26.0	mg/kg dry		6560			0.410	20	
Matrix Spike (P7C1005-MS1)	Sou	rce: 7C03011	-25	Prepared: 0	03/10/17 A	nalyzed: 03	/14/17			
Chloride	8230	26.3	mg/kg dry	421	7550	161	80-120			R
Batch P7C1006 - *** DEFAULT PREP ***										
Blank (P7C1006-BLK1)				Prepared: 0	03/10/17 A	nalyzed: 03	/14/17			
Chloride	ND	1.00	mg/kg wet							
LCS (P7C1006-BS1)				Prepared: (03/10/17 A	nalyzed: 03	/13/17			
Chloride	407	1.00	mg/kg wet	400		102	80-120			
LCS Dup (P7C1006-BSD1)				Prepared: 0	03/10/17 A	nalyzed: 03	/13/17			
Chloride	406	1.00	mg/kg wet	400		102	80-120	0.0615	20	
Duplicate (P7C1006-DUP1)	Sou	rce: 7C03011	-45	Prepared: 0	03/10/17 A	nalyzed: 03	/14/17			
Chloride	3490	27.2	mg/kg dry		3570			2.34	20	
Duplicate (P7C1006-DUP2)	Sou	rce: 7C03012	2-07	Prepared: 0	03/10/17 A	nalyzed: 03	/14/17			
Chloride	11900	56.2	mg/kg dry		11800			0.826	20	
Matrix Spike (P7C1006-MS1)	Sou	rce: 7C03011	-45	Prepared: 0	03/10/17 A	nalyzed: 03	/14/17			

 Chloride
 5810
 27.2 mg/kg dry
 2720
 3570
 82.2
 80-120

Permian Basin Environmental Lab, L.P.

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

Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P7C0807 - TX 1005										
Blank (P7C0807-BLK1)				Prepared &	Analyzed:	03/07/17				
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	89.0		"	100		89.0	70-130			
Surrogate: o-Terphenyl	48.0		"	50.0		96.0	70-130			
LCS (P7C0807-BS1)				Prepared &	Analyzed:	03/07/17				
C6-C12	745	25.0	mg/kg wet	750		99.4	75-125			
>C12-C28	816	25.0		750		109	75-125			
Surrogate: 1-Chlorooctane	93.6		"	100		93.6	70-130			
Surrogate: o-Terphenyl	44.9		"	50.0		89.8	70-130			
LCS Dup (P7C0807-BSD1)				Prepared &	Analyzed:	03/07/17				
C6-C12	810	25.0	mg/kg wet	750		108	75-125	8.27	20	
>C12-C28	929	25.0		750		124	75-125	13.0	20	
Surrogate: 1-Chlorooctane	85.2		"	100		85.2	70-130			
Surrogate: o-Terphenyl	40.9		"	50.0		81.8	70-130			
Matrix Spike (P7C0807-MS1)	Sour	·ce: 7C03011	-44	Prepared: (03/07/17 A	nalyzed: 03	/08/17			
C6-C12	1040	29.4	mg/kg dry	1180	33.6	85.7	75-125			
>C12-C28	1120	29.4		1180	13.7	93.6	75-125			
Surrogate: 1-Chlorooctane	107		"	118		90.7	70-130			
Surrogate: o-Terphenyl	51.7		"	58.8		87.9	70-130			
Matrix Spike Dup (P7C0807-MSD1)	Sour	·ce: 7C03011	-44	Prepared: (03/07/17 A	nalyzed: 03	/08/17			
C6-C12	1030	29.4	mg/kg dry	1180	33.6	84.5	75-125	1.41	20	
>C12-C28	1100	29.4		1180	13.7	92.3	75-125	1.41	20	
Surrogate: 1-Chlorooctane	106		"	118		90.3	70-130			
Surrogate: o-Terphenyl	51.0		"	58.8		86.6	70-130			

Notes and Definitions

R3	The RPD exceeded the acceptance limit due to sample matrix effects.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BULK	Samples received in Bulk soil containers
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By:

Bun Barron

Date: 3/17/2017

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, L.P.

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