## 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: Gissler B 3-3
Project Number: [none]

Location: Eddy Co. New Mexico

Lab Order Number: 6I09003



NELAP/TCEQ # T104704156-16-6

Report Date: 09/16/16

Burnett Oil Company, Inc.

Project: Gissler B 3-3

24 Smith Road Suite 100

Project Number: [none]

Midland TX, 79705 Project Manager: Johnny Titsworth

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SP-1 (0-1)	6109003-01	Soil	09/08/16 00:00	09-09-2016 11:15
SP-1 (1-1.5)	6109003-02	Soil	09/08/16 00:00	09-09-2016 11:15
SP-1 (2-2.5)	6109003-03	Soil	09/08/16 00:00	09-09-2016 11:15
SP-1 (3-3.5)	6109003-04	Soil	09/08/16 00:00	09-09-2016 11:15
SP-1 (4-4.5)	6109003-05	Soil	09/08/16 00:00	09-09-2016 11:15
SP-1 (5-5.5)	6109003-06	Soil	09/08/16 00:00	09-09-2016 11:15
SP-1 (6-6.5)	6109003-07	Soil	09/08/16 00:00	09-09-2016 11:15
SP-1 (7-7.5)	6109003-08	Soil	09/08/16 00:00	09-09-2016 11:15
SP-1 (8-8.5)	6109003-09	Soil	09/08/16 00:00	09-09-2016 11:15
SP-1 (9-9.5)	6I09003-10	Soil	09/08/16 00:00	09-09-2016 11:15
SP-2 (0-1)	6I09003-11	Soil	09/08/16 00:00	09-09-2016 11:15
SP-2 (1-1.5)	6I09003-12	Soil	09/08/16 00:00	09-09-2016 11:15
SP-2 (2-2.5)	6I09003-13	Soil	09/08/16 00:00	09-09-2016 11:15
SP-2 (3-3.5)	6I09003-14	Soil	09/08/16 00:00	09-09-2016 11:15
SP-2 (4-4.5)	6I09003-15	Soil	09/08/16 00:00	09-09-2016 11:15
SP-2 (5-5.5)	6I09003-16	Soil	09/08/16 00:00	09-09-2016 11:15
SP-2 (6-6.5)	6I09003-17	Soil	09/08/16 00:00	09-09-2016 11:15
SP-2 (7-7.5)	6I09003-18	Soil	09/08/16 00:00	09-09-2016 11:15
SP-2 (8-8.5)	6I09003-19	Soil	09/08/16 00:00	09-09-2016 11:15
SP-2 (9-9.5)	6I09003-20	Soil	09/08/16 00:00	09-09-2016 11:15
SP-3 (0-1)	6I09003-21	Soil	09/08/16 00:00	09-09-2016 11:15
SP-3 (1-1.5)	6I09003-22	Soil	09/08/16 00:00	09-09-2016 11:15
SP-3 (2-2.5)	6I09003-23	Soil	09/08/16 00:00	09-09-2016 11:15
SP-3 (3-3.5)	6I09003-24	Soil	09/08/16 00:00	09-09-2016 11:15
SP-3 (4-4.5)	6I09003-25	Soil	09/08/16 00:00	09-09-2016 11:15
SP-3 (5-5.5)	6I09003-26	Soil	09/08/16 00:00	09-09-2016 11:15
SP-3 (6-6.5)	6I09003-27	Soil	09/08/16 00:00	09-09-2016 11:15
SP-3 (7-7.5)	6I09003-28	Soil	09/08/16 00:00	09-09-2016 11:15
SP-3 (8-8.5)	6I09003-29	Soil	09/08/16 00:00	09-09-2016 11:15
SP-3 (9-9.5)	6I09003-30	Soil	09/08/16 00:00	09-09-2016 11:15
SP-4 (0-1)	6I09003-31	Soil	09/08/16 00:00	09-09-2016 11:15
SP-4 (1-1.5)	6109003-32	Soil	09/08/16 00:00	09-09-2016 11:15
SP-4 (2-2.5)	6109003-33	Soil	09/08/16 00:00	09-09-2016 11:15
SP-4 (3-3.5)	6I09003-34	Soil	09/08/16 00:00	09-09-2016 11:15

24 Smith Road Suite 100 Project Number: [none]

Midland TX, 79705 Project Manager: Johnny Titsworth

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SP-4 (4-4.5)	6I09003-35	Soil	09/08/16 00:00	09-09-2016 11:15
SP-4 (5-5.5)	6109003-36	Soil	09/08/16 00:00	09-09-2016 11:15
SP-4 (6-6.5)	6109003-37	Soil	09/08/16 00:00	09-09-2016 11:15
SP-4 (7-7.5)	6109003-38	Soil	09/08/16 00:00	09-09-2016 11:15
SP-4 (8-8.5)	6109003-39	Soil	09/08/16 00:00	09-09-2016 11:15
SP-4 (9-9.5)	6I09003-40	Soil	09/08/16 00:00	09-09-2016 11:15

24 Smith Road Suite 100 Project Number: [none]

Midland TX, 79705 Project Manager: Johnny Titsworth

SP-1 (0-1) 6I09003-01 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

#### Permian Basin Environmental Lab, L.P.

Chloride	10.0	1.08 mg/kg dry	1	P6I0914	09/09/16	09/10/16	EPA 300.0
% Moisture	7.0	0.1 %	1	P6I1202	09/12/16	09/12/16	% calculation

24 Smith Road Suite 100 Project Number: [none]

Midland TX, 79705 Project Manager: Johnny Titsworth

SP-1 (1-1.5) 6I09003-02 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

#### Permian Basin Environmental Lab, L.P.

Chloride	70.4	1.06 mg/kg dry	1	P6I0914	09/09/16	09/10/16	EPA 300.0
% Moisture	6.0	0.1 %	1	P6I1202	09/12/16	09/12/16	% calculation

24 Smith Road Suite 100 Project Number: [none]

Midland TX, 79705 Project Manager: Johnny Titsworth

SP-1 (2-2.5) 6I09003-03 (Soil)

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		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

#### Permian Basin Environmental Lab, L.P.

Chloride	115	1.05 mg/kg dry	1	P6I0914	09/09/16	09/10/16	EPA 300.0
% Moisture	5.0	0.1 %	1	P6I1202	09/12/16	09/12/16	% calculation

24 Smith Road Suite 100 Project Number: [none]

Midland TX, 79705 Project Manager: Johnny Titsworth

SP-1 (3-3.5) 6109003-04 (Soil)

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		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

#### Permian Basin Environmental Lab, L.P.

Chloride	1480	5.32 mg/kg dry	5	P6I0914	09/09/16	09/10/16	EPA 300.0
% Moisture	6.0	0.1 %	1	P6I1202	09/12/16	09/12/16	% calculation

24 Smith Road Suite 100 Project Number: [none]

Midland TX, 79705 Project Manager: Johnny Titsworth

SP-1 (4-4.5) 6I09003-05 (Soil)

Reporting

Analyte Result Limit Units Dilution Batch Prepared Analyzed Method Notes

Permian Basin Environmental Lab, L.P.

**General Chemistry Parameters by EPA / Standard Methods** 

 Chloride
 21200
 57.5 mg/kg dry
 50 P6I0914
 09/09/16 09/10/16
 EPA 300.0

 % Moisture
 13.0
 0.1 %
 1 P6I1202
 09/12/16 09/12/16
 % calculation

24 Smith Road Suite 100 Project Number: [none]

Midland TX, 79705 Project Manager: Johnny Titsworth

SP-1 (5-5.5) 6I09003-06 (Soil)

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		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

#### Permian Basin Environmental Lab, L.P.

Chloride	18100	56.2 mg/kg dry	50	P6I0914	09/09/16	09/10/16	EPA 300.0
% Moisture	11.0	0.1 %	1	P6I1202	09/12/16	09/12/16	% calculation

24 Smith Road Suite 100 Project Number: [none]

Midland TX, 79705 Project Manager: Johnny Titsworth

SP-1 (6-6.5) 6I09003-07 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

#### Permian Basin Environmental Lab, L.P.

Chloride	478	5.75 mg/kg dry	5	P6I0914	09/09/16	09/11/16	EPA 300.0
% Moisture	13.0	0.1 %	1	P6I1202	09/12/16	09/12/16	% calculation

24 Smith Road Suite 100 Project Number: [none]

Midland TX, 79705 Project Manager: Johnny Titsworth

SP-1 (7-7.5) 6I09003-08 (Soil)

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		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

#### Permian Basin Environmental Lab, L.P.

Chloride	290	1.11 mg/kg dry	1	P6I0914	09/09/16	09/11/16	EPA 300.0
% Moisture	10.0	0.1 %	1	P6I1202	09/12/16	09/12/16	% calculation

24 Smith Road Suite 100 Project Number: [none]

Midland TX, 79705 Project Manager: Johnny Titsworth

SP-1 (8-8.5) 6I09003-09 (Soil)

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		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

#### Permian Basin Environmental Lab, L.P.

Chloride	702	1.10 mg/kg dry	1	P6I0914	09/09/16	09/11/16	EPA 300.0
% Moisture	9.0	0.1 %	1	P6I1202	09/12/16	09/12/16	% calculation

24 Smith Road Suite 100 Project Number: [none]

Midland TX, 79705 Project Manager: Johnny Titsworth

SP-1 (9-9.5) 6I09003-10 (Soil)

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		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

#### Permian Basin Environmental Lab, L.P.

Chloride	859	1.10 mg/kg dry	1	P6I0914	09/09/16	09/11/16	EPA 300.0
% Moisture	9.0	0.1 %	1	P6I1202	09/12/16	09/12/16	% calculation

24 Smith Road Suite 100 Project Number: [none]

Midland TX, 79705 Project Manager: Johnny Titsworth

SP-2 (0-1) 6I09003-11 (Soil)

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		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

#### Permian Basin Environmental Lab, L.P.

Chloride	3520	26.9 mg/kg dry	25	P6I0914	09/09/16	09/11/16	EPA 300.0
% Moisture	7.0	0.1 %	1	P6I1202	09/12/16	09/12/16	% calculation

24 Smith Road Suite 100 Project Number: [none]

Midland TX, 79705 Project Manager: Johnny Titsworth

SP-2 (1-1.5) 6I09003-12 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

#### Permian Basin Environmental Lab, L.P.

Chloride	264	1.03 mg/kg dry	1	P6I0914	09/09/16	09/11/16	EPA 300.0
% Moisture	3.0	0.1 %	1	P6I1202	09/12/16	09/12/16	% calculation

24 Smith Road Suite 100 Project Number: [none]

Midland TX, 79705 Project Manager: Johnny Titsworth

SP-2 (2-2.5) 6I09003-13 (Soil)

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		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

#### Permian Basin Environmental Lab, L.P.

Chloride	475	1.04 mg/kg dry	1	P6I0914	09/09/16	09/11/16	EPA 300.0
% Moisture	4.0	0.1 %	1	P6I1202	09/12/16	09/12/16	% calculation

24 Smith Road Suite 100 Project Number: [none]

Midland TX, 79705 Project Manager: Johnny Titsworth

SP-2 (3-3.5) 6I09003-14 (Soil)

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		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

#### Permian Basin Environmental Lab, L.P.

Chloride	398	1.06 mg/kg dry	1	P6I0914	09/09/16	09/11/16	EPA 300.0
% Moisture	6.0	0.1 %	1	P6I1202	09/12/16	09/12/16	% calculation

24 Smith Road Suite 100 Project Number: [none]

Midland TX, 79705 Project Manager: Johnny Titsworth

SP-2 (4-4.5) 6I09003-15 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

#### Permian Basin Environmental Lab, L.P.

Chloride	260	1.02 mg/kg dry	1	P6I0914	09/09/16	09/11/16	EPA 300.0
% Moisture	2.0	0.1 %	1	P6I1202	09/12/16	09/12/16	% calculation

24 Smith Road Suite 100 Project Number: [none]

Midland TX, 79705 Project Manager: Johnny Titsworth

SP-2 (5-5.5) 6I09003-16 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

#### Permian Basin Environmental Lab, L.P.

Chloride	421	1.03 mg/kg dry	1	P6I0914	09/09/16	09/11/16	EPA 300.0
% Moisture	3.0	0.1 %	1	P6I1202	09/12/16	09/12/16	% calculation

24 Smith Road Suite 100 Project Number: [none]

Midland TX, 79705 Project Manager: Johnny Titsworth

SP-2 (6-6.5) 6I09003-17 (Soil)

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		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

#### Permian Basin Environmental Lab, L.P.

Chloride	468	1.03 mg/kg dry	1	P6I0914	09/09/16	09/11/16	EPA 300.0
% Moisture	3.0	0.1 %	1	P6I1202	09/12/16	09/12/16	% calculation

24 Smith Road Suite 100 Project Number: [none]

Midland TX, 79705 Project Manager: Johnny Titsworth

SP-2 (7-7.5) 6I09003-18 (Soil)

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		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

#### Permian Basin Environmental Lab, L.P.

Chloride	362	1.03 mg/kg dry	1	P6I0914	09/09/16	09/11/16	EPA 300.0
% Moisture	3.0	0.1 %	1	P6I1202	09/12/16	09/12/16	% calculation

24 Smith Road Suite 100 Project Number: [none]

Midland TX, 79705 Project Manager: Johnny Titsworth

SP-2 (8-8.5) 6I09003-19 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

#### Permian Basin Environmental Lab, L.P.

Chloride	431	1.04 mg/kg dry	1	P6I0914	09/09/16	09/11/16	EPA 300.0
% Moisture	4.0	0.1 %	1	P6I1202	09/12/16	09/12/16	% calculation

24 Smith Road Suite 100 Project Number: [none]

Midland TX, 79705 Project Manager: Johnny Titsworth

SP-2 (9-9.5) 6I09003-20 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

#### Permian Basin Environmental Lab, L.P.

Chloride	398	1.04 mg/kg dry	1	P6I0914	09/09/16	09/11/16	EPA 300.0
% Moisture	4.0	0.1 %	1	P6I1202	09/12/16	09/12/16	% calculation

24 Smith Road Suite 100 Project Number: [none]

Midland TX, 79705 Project Manager: Johnny Titsworth

SP-3 (0-1) 6I09003-21 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

#### Permian Basin Environmental Lab, L.P.

Chloride	4950	28.1 mg/kg dry	25	P6I1204	09/12/16	09/12/16	EPA 300.0
% Moisture	11.0	0.1 %	1	P6I1202	09/12/16	09/12/16	% calculation

24 Smith Road Suite 100 Project Number: [none]

Midland TX, 79705 Project Manager: Johnny Titsworth

SP-3 (1-1.5) 6I09003-22 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

#### Permian Basin Environmental Lab, L.P.

Chloride	391	1.05 mg/kg dry	1	P6I1204	09/12/16	09/12/16	EPA 300.0
% Moisture	5.0	0.1 %	1	P6I1202	09/12/16	09/12/16	% calculation

24 Smith Road Suite 100 Project Number: [none]

Midland TX, 79705 Project Manager: Johnny Titsworth

SP-3 (2-2.5) 6109003-23 (Soil)

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		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

#### Permian Basin Environmental Lab, L.P.

Chloride	644	1.08 mg/kg dry	1	P6I1204	09/12/16	09/12/16	EPA 300.0
% Moisture	7.0	0.1 %	1	P6I1202	09/12/16	09/12/16	% calculation

24 Smith Road Suite 100 Project Number: [none]

Midland TX, 79705 Project Manager: Johnny Titsworth

SP-3 (3-3.5) 6I09003-24 (Soil)

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

#### Permian Basin Environmental Lab, L.P.

Chloride	345	1.06 mg/kg dry	1	P6I1204	09/12/16	09/12/16	EPA 300.0
% Moisture	6.0	0.1 %	1	P6I1202	09/12/16	09/12/16	% calculation

24 Smith Road Suite 100 Project Number: [none]

Midland TX, 79705 Project Manager: Johnny Titsworth

SP-3 (4-4.5) 6I09003-25 (Soil)

Reporting

Analyte Result Limit Units Dilution Batch Prepared Analyzed Method Notes

Permian Basin Environmental Lab, L.P.

**General Chemistry Parameters by EPA / Standard Methods** 

 Chloride
 43.6
 1.12 mg/kg dry
 1 P6I1204 09/12/16
 09/12/16 09/12/16
 EPA 300.0

 % Moisture
 1.0
 0.1 %
 1 P6I1202 09/12/16
 09/12/16 09/12/16
 % calculation

24 Smith Road Suite 100 Project Number: [none]

Midland TX, 79705 Project Manager: Johnny Titsworth

SP-3 (5-5.5) 6I09003-26 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

#### Permian Basin Environmental Lab, L.P.

Chloride	6330	5.43 mg/kg dry	5	P6I1204	09/12/16	09/12/16	EPA 300.0
% Moisture	8.0	0.1 %	1	P6I1202	09/12/16	09/12/16	% calculation

24 Smith Road Suite 100 Project Number: [none]

Midland TX, 79705 Project Manager: Johnny Titsworth

SP-3 (6-6.5) 6I09003-27 (Soil)

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		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

#### Permian Basin Environmental Lab, L.P.

Chloride	784	1.04 mg/kg dry	1	P6I1204	09/12/16	09/12/16	EPA 300.0
% Moisture	4.0	0.1 %	1	P6I1202	09/12/16	09/12/16	% calculation

24 Smith Road Suite 100 Project Number: [none]

Midland TX, 79705 Project Manager: Johnny Titsworth

SP-3 (7-7.5) 6I09003-28 (Soil)

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		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

#### Permian Basin Environmental Lab, L.P.

Chloride	937	1.05 mg/kg dry	1	P6I1204	09/12/16	09/12/16	EPA 300.0
% Moisture	5.0	0.1 %	1	P6I1202	09/12/16	09/12/16	% calculation

24 Smith Road Suite 100 Project Number: [none]

Midland TX, 79705 Project Manager: Johnny Titsworth

SP-3 (8-8.5) 6I09003-29 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

#### Permian Basin Environmental Lab, L.P.

Chloride	265	1.05 mg/kg dry	1	P6I1204	09/12/16	09/12/16	EPA 300.0
% Moisture	5.0	0.1 %	1	P6I1202	09/12/16	09/12/16	% calculation

24 Smith Road Suite 100 Project Number: [none]

Midland TX, 79705 Project Manager: Johnny Titsworth

SP-3 (9-9.5) 6109003-30 (Soil)

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

#### Permian Basin Environmental Lab, L.P.

Chloride	69.0	1.06 mg/kg dry	1	P6I1204	09/12/16	09/12/16	EPA 300.0
% Moisture	6.0	0.1 %	1	P6I1202	09/12/16	09/12/16	% calculation

24 Smith Road Suite 100 Project Number: [none]

Midland TX, 79705 Project Manager: Johnny Titsworth

SP-4 (0-1) 6I09003-31 (Soil)

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

#### Permian Basin Environmental Lab, L.P.

Chloride	342	1.03 mg/kg dry	1	P6I1204	09/12/16	09/12/16	EPA 300.0
% Moisture	3.0	0.1 %	1	P6I1202	09/12/16	09/12/16	% calculation

24 Smith Road Suite 100 Project Number: [none]

Midland TX, 79705 Project Manager: Johnny Titsworth

SP-4 (1-1.5) 6I09003-32 (Soil)

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

#### Permian Basin Environmental Lab, L.P.

Chloride	48.0	1.04 mg/kg dry	1	P6I1204	09/12/16	09/12/16	EPA 300.0
% Moisture	4.0	0.1 %	1	P6I1202	09/12/16	09/12/16	% calculation

24 Smith Road Suite 100 Project Number: [none]

Midland TX, 79705 Project Manager: Johnny Titsworth

SP-4 (2-2.5) 6I09003-33 (Soil)

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		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

#### Permian Basin Environmental Lab, L.P.

Chloride	37.8	1.05 mg/kg dry	1	P6I1204	09/12/16	09/12/16	EPA 300.0
% Moisture	5.0	0.1 %	1	P6I1202	09/12/16	09/12/16	% calculation

24 Smith Road Suite 100 Project Number: [none]

Midland TX, 79705 Project Manager: Johnny Titsworth

SP-4 (3-3.5) 6I09003-34 (Soil)

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

# Permian Basin Environmental Lab, L.P.

Chloride	38.8	1.06 mg/kg dry	1	P6I1204	09/12/16	09/12/16	EPA 300.0
% Moisture	6.0	0.1 %	1	P6I1202	09/12/16	09/12/16	% calculation

24 Smith Road Suite 100 Project Number: [none]

Midland TX, 79705 Project Manager: Johnny Titsworth

SP-4 (4-4.5) 6109003-35 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

# Permian Basin Environmental Lab, L.P.

Chloride	16.0	1.06 mg/kg dry	1	P6I1204	09/12/16	09/13/16	EPA 300.0
% Moisture	6.0	0.1 %	1	P6I1202	09/12/16	09/12/16	% calculation

24 Smith Road Suite 100 Project Number: [none]

Midland TX, 79705 Project Manager: Johnny Titsworth

SP-4 (5-5.5) 6I09003-36 (Soil)

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

# Permian Basin Environmental Lab, L.P.

Chloride	15.9	1.03 mg/kg dry	1	P6I1204	09/12/16	09/13/16	EPA 300.0
% Moisture	3.0	0.1 %	1	P6I1202	09/12/16	09/12/16	% calculation

24 Smith Road Suite 100 Project Number: [none]

Midland TX, 79705 Project Manager: Johnny Titsworth

SP-4 (6-6.5) 6I09003-37 (Soil)

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

# Permian Basin Environmental Lab, L.P.

Chloride	15.4	1.06 mg/kg dry	1	P6I1204	09/12/16	09/13/16	EPA 300.0
% Moisture	6.0	0.1 %	1	P6I1202	09/12/16	09/12/16	% calculation

24 Smith Road Suite 100 Project Number: [none]

Midland TX, 79705 Project Manager: Johnny Titsworth

SP-4 (7-7.5) 6109003-38 (Soil)

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

# Permian Basin Environmental Lab, L.P.

Chloride	7.19	1.12 mg/kg dry	1	P6I1204	09/12/16	09/13/16	EPA 300.0
% Moisture	11.0	0.1 %	1	P6I1202	09/12/16	09/12/16	% calculation

24 Smith Road Suite 100 Project Number: [none]

Midland TX, 79705 Project Manager: Johnny Titsworth

SP-4 (8-8.5) 6109003-39 (Soil)

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

# Permian Basin Environmental Lab, L.P.

Chloride	ND	1.04 mg/kg dry	1	P6I1204	09/12/16	09/13/16	EPA 300.0
% Moisture	4.0	0.1 %	1	P6I1202	09/12/16	09/12/16	% calculation

24 Smith Road Suite 100 Project Number: [none]

Midland TX, 79705 Project Manager: Johnny Titsworth

SP-4 (9-9.5) 6109003-40 (Soil)

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

# Permian Basin Environmental Lab, L.P.

Chloride	12.1	1.04 mg/kg dry	1	P6I1204	09/12/16	09/13/16	EPA 300.0
% Moisture	4.0	0.1 %	1	P6I1202	09/12/16	09/12/16	% calculation

24 Smith Road Suite 100 Project Number: [none]

Midland TX, 79705 Project Manager: Johnny Titsworth

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

		Reporting	<u> </u>	Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P6I0914 - *** DEFAULT PREP ***										
Blank (P6I0914-BLK1)				Prepared:	09/09/16 A	nalyzed: 09	9/10/16			
Chloride	ND	1.00	mg/kg wet							
LCS (P6I0914-BS1)				Prepared:	09/09/16 A	nalyzed: 09	9/10/16			
Chloride	443	1.00	mg/kg wet	400		111	80-120			
LCS Dup (P6I0914-BSD1)				Prepared:	09/09/16 A	nalyzed: 09	9/10/16			
Chloride	440	1.00	mg/kg wet	400		110	80-120	0.701	20	
Duplicate (P6I0914-DUP1)	Sou	rce: 6109003	-01	Prepared:	09/09/16 A	nalyzed: 09	9/10/16			
Chloride	11.1	1.08	mg/kg dry		10.0			9.79	20	
Duplicate (P6I0914-DUP2)	Sou	rce: 6109003	-11	Prepared:	09/09/16 A	nalyzed: 09	9/11/16			
Chloride	3540	26.9	mg/kg dry		3520			0.419	20	
Matrix Spike (P6I0914-MS1)	Sou	rce: 6109003	-01	Prepared:	09/09/16 A	nalyzed: 09	9/10/16			
Chloride	1120	1.08	mg/kg dry	1080	10.0	103	80-120			
Batch P6I1202 - *** DEFAULT PREP ***										
Blank (P6I1202-BLK1)				Prepared &	& Analyzed:	09/12/16				
% Moisture	ND	0.1	%		•					
Blank (P611202-BLK2)				Prepared &	& Analyzed:	09/12/16				
% Moisture	ND 0.1 %				·		·		·	
Duplicate (P6I1202-DUP1)	Sou	rce: 6108014	-09	Prepared &	& Analyzed:	09/12/16				
% Moisture	6.0	0.1	%		7.0			15.4	20	

24 Smith Road Suite 100 Project Number: [none]

Midland TX, 79705 Project Manager: Johnny Titsworth

# 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 P6I1202 - *** DEFAULT PREP ***										
Duplicate (P6I1202-DUP2)	Sou	rce: 6109003-1	19	Prepared &	Analyzed:	09/12/16				
% Moisture	4.0	0.1	%		4.0	·	·	0.00	20	
Duplicate (P6I1202-DUP3)	Sou	rce: 6109003-4	40	Prepared &	Analyzed:	09/12/16				
% Moisture	4.0	0.1	%		4.0			0.00	20	
Duplicate (P6I1202-DUP4)	Sou	rce: 6109004-2	27	Prepared &	: Analyzed:	09/12/16				
% Moisture	6.0	0.1	%		5.0			18.2	20	
Duplicate (P6I1202-DUP5)	Sou	rce: 6109005-0	02	Prepared &	Analyzed:	09/12/16				
% Moisture	2.0	0.1	%		2.0			0.00	20	
Batch P6I1204 - *** DEFAULT PREP ***										
Blank (P6I1204-BLK1)				Prepared &	Analyzed:	09/12/16				
Chloride	ND	1.00	mg/kg wet							
LCS (P6I1204-BS1)				Prepared &	Analyzed:	09/12/16				
Chloride	432	1.00	mg/kg wet	400		108	80-120			
LCS Dup (P6I1204-BSD1)				Prepared &	Analyzed:	09/12/16				
Chloride	432	1.00	mg/kg wet	400		108	80-120	0.0324	20	
Duplicate (P6I1204-DUP1)	Sou	rce: 6109003-2	21	Prepared &	: Analyzed:	09/12/16				
Chloride	5020 28.1 mg/kg dry				4950			1.40	20	
Duplicate (P6I1204-DUP2)	Sou	rce: 6109003-3	31	Prepared &	Analyzed:	09/12/16				
Chloride	343	1.03	mg/kg dry	-	342			0.0632	20	

24 Smith Road Suite 100 Project Number: [none]

Midland TX, 79705 Project Manager: Johnny Titsworth

# 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	l

Batch P6I1204 - \*\*\* DEFAULT PREP \*\*\*

Matrix Spike (P6I1204-MS1)	Source	e: 6I09003-21	Prepared &	Analyzed:	09/12/16		
Chloride	5590	28.1 mg/kg dry	1120	4950	56.9	80-120	OM-07

24 Smith Road Suite 100 Project Number: [none]

Midland TX, 79705 Project Manager: Johnny Titsworth

#### **Notes and Definitions**

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

recovery.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

	Drew	Darlor			
Report Approved By:			Date:	9/16/2016	

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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.



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