

## Bratcher, Mike, EMNRD

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**From:** Coty Woolf <coty.woolf@chargerservices.com>  
**Sent:** Monday, October 16, 2017 9:35 AM  
**To:** Bratcher, Mike, EMNRD; Amber Groves; Tony Sam  
**Subject:** Re: remediation plan for Forehand 27 State #4  
**Attachments:** 7I27002 PBELSTD\_NELAC\_COC\_PDF\_NEW.rev1 (1) FINAL 10 03 17 1115.pdf

Mike,

The site score is zero based on groundwater being greater than 100 ft below ground surface and surface water is greater than 1000 ft from release area. Please find attached the lab report as requested.

Regards,  
Coty

On Wed, Oct 11, 2017 at 2:24 PM, Bratcher, Mike, EMNRD <[mike.bratcher@state.nm.us](mailto:mike.bratcher@state.nm.us)> wrote:

RE: Caza Petroleum \* Forehand Ranch 27 St 4 \* **2RP-4038** \* DOR: Discovered 5/2/16

Coty,

Your proposal for remediation of the above referenced release is approved with the following:

A site ranking has not been established for this site. Lab data was not included with the proposal. Please submit both these items as soon as possible. Please advise once remedial activities have been scheduled. Include Crystal Weaver in future correspondence, and include the referenced 2RP number.  
[crystal.weaver@state.nm.us](mailto:crystal.weaver@state.nm.us)

Thank you,

Mike Bratcher

NMOCD District 2

[811 South First Street](#)

[Artesia, NM 88210](#)

[575-748-1283](tel:575-748-1283) Ext 108

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

**From:** Coty Woolf [mailto:[coty.woolf@chargerservices.com](mailto:coty.woolf@chargerservices.com)]

**Sent:** Thursday, October 5, 2017 12:12 PM

**To:** Bratcher, Mike, EMNRD <[mike.bratcher@state.nm.us](mailto:mike.bratcher@state.nm.us)>; Amber Groves <[agroves@slo.state.nm.us](mailto:agroves@slo.state.nm.us)>

**Cc:** Kevin Garrett <[kgarrett@cazapetro.com](mailto:kgarrett@cazapetro.com)>; Tony Sam <[tsam@cazapetro.com](mailto:tsam@cazapetro.com)>; [rnickerson@cazapetro.com](mailto:rnickerson@cazapetro.com)

**Subject:** remediation plan for Forehand 27 State #4

Mike,

Please find attached the remediation plan for the Caza Petroleum Forehand 27 State #4 spill. Please let me know if you need any additional information for the site.

Regards,

Coty Woolf

President

North Jetty Environmental Services, LLC

[325-669-5735](tel:325-669-5735) cell

[432-897-4988](tel:432-897-4988) office

[cotywoolf@icloud.com](mailto:cotywoolf@icloud.com)

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



# Analytical Report

**Prepared for:**

Coty Woolf  
North Jetty Environmental Services  
5004 Whitman Drive  
Midland, TEXAS 79705

Project: Forehand 27 State #4

Project Number: 17-0925

Location: NM

Lab Order Number: 7127002



NELAP/TCEQ # T104704516-16-7

Report Date: 10/03/17

North Jetty Environmental Services  
5004 Whitman Drive  
Midland TEXAS, 79705

Project: Forehand 27 State #4  
Project Number: 17-0925  
Project Manager: Coty Woolf

Fax:

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS- 1 0-2	7I27002-01	Soil	09/18/17 11:45	09-27-2017 11:00
SS- 1 2-4	7I27002-02	Soil	09/18/17 12:00	09-27-2017 11:00
SS- 2 0-2	7I27002-05	Soil	09/18/17 12:45	09-27-2017 11:00
SS- 2 2-4	7I27002-06	Soil	09/18/17 13:00	09-27-2017 11:00
SS- 3 0-2	7I27002-09	Soil	09/18/17 13:45	09-27-2017 11:00
SS- 3 2-4	7I27002-10	Soil	09/18/17 14:00	09-27-2017 11:00
SS- 4 0-2	7I27002-13	Soil	09/18/17 14:45	09-27-2017 11:00
SS- 4 2-4	7I27002-14	Soil	09/18/17 15:00	09-27-2017 11:00
SS- 5 0-2	7I27002-17	Soil	09/18/17 15:45	09-27-2017 11:00
SS- 5 2-4	7I27002-18	Soil	09/18/17 16:00	09-27-2017 11:00
SS- 6 0-2	7I27002-21	Soil	09/18/17 16:45	09-27-2017 11:00
SS- 6 2-4	7I27002-22	Soil	09/18/17 17:00	09-27-2017 11:00
SS- 7 0-2	7I27002-25	Soil	09/18/17 17:45	09-27-2017 11:00
SS- 7 2-4	7I27002-26	Soil	09/18/17 18:00	09-27-2017 11:00
SS- 8 0-2	7I27002-29	Soil	09/18/17 18:45	09-27-2017 11:00
SS- 8 2-4	7I27002-30	Soil	09/18/17 19:00	09-27-2017 11:00

North Jetty Environmental Services	Project: Forehand 27 State #4	Fax:
5004 Whitman Drive	Project Number: 17-0925	
Midland TEXAS, 79705	Project Manager: Coty Woolf	

SS- 1 0-2  
7I27002-01 (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	0.00101	mg/kg dry	1	P7I2806	09/27/17	09/28/17	EPA 8021B	
Toluene	ND	0.00202	mg/kg dry	1	P7I2806	09/27/17	09/28/17	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P7I2806	09/27/17	09/28/17	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P7I2806	09/27/17	09/28/17	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P7I2806	09/27/17	09/28/17	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		87.9 %	75-125		P7I2806	09/27/17	09/28/17	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		89.9 %	75-125		P7I2806	09/27/17	09/28/17	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	3760	25.3	mg/kg dry	25	P7I2816	09/28/17	09/29/17	EPA 300.0	
% Moisture	1.0	0.1	%	1	P7I2901	09/29/17	09/29/17	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.3	mg/kg dry	1	P7I2819	09/27/17	09/28/17	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P7I2819	09/27/17	09/28/17	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P7I2819	09/27/17	09/28/17	TPH 8015M	
Surrogate: 1-Chlorooctane		111 %	70-130		P7I2819	09/27/17	09/28/17	TPH 8015M	
Surrogate: o-Terphenyl		104 %	70-130		P7I2819	09/27/17	09/28/17	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	09/27/17	09/28/17	calc	

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.

1400 Rankin HWY Midland, TX 79701 432-686-7235

North Jetty Environmental Services	Project: Forehand 27 State #4	Fax:
5004 Whitman Drive	Project Number: 17-0925	
Midland TEXAS, 79705	Project Manager: Coty Woolf	

SS- 1 2-4  
7127002-02 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods									
Chloride	8.07	1.05	mg/kg dry	1	P7I2816	09/28/17	09/29/17	EPA 300.0	
% Moisture	5.0	0.1	%	1	P7I2901	09/29/17	09/29/17	ASTM D2216	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

North Jetty Environmental Services  
5004 Whitman Drive  
Midland TEXAS, 79705

Project: Forehand 27 State #4  
Project Number: 17-0925  
Project Manager: Coty Woolf

Fax:

**SS- 2 0-2**  
**7127002-05 (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	0.00110	mg/kg dry	1	P712806	09/27/17	09/28/17	EPA 8021B	
Toluene	ND	0.00220	mg/kg dry	1	P712806	09/27/17	09/28/17	EPA 8021B	
Ethylbenzene	ND	0.00110	mg/kg dry	1	P712806	09/27/17	09/28/17	EPA 8021B	
Xylene (p/m)	ND	0.00220	mg/kg dry	1	P712806	09/27/17	09/28/17	EPA 8021B	
Xylene (o)	ND	0.00110	mg/kg dry	1	P712806	09/27/17	09/28/17	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		89.4 %	75-125		P712806	09/27/17	09/28/17	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		94.5 %	75-125		P712806	09/27/17	09/28/17	EPA 8021B	

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

Chloride	656	1.10	mg/kg dry	1	P712817	09/28/17	09/29/17	EPA 300.0	
% Moisture	9.0	0.1	%	1	P712901	09/29/17	09/29/17	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	27.5	mg/kg dry	1	P712819	09/27/17	09/28/17	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P712819	09/27/17	09/28/17	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P712819	09/27/17	09/28/17	TPH 8015M	
Surrogate: 1-Chlorooctane		110 %	70-130		P712819	09/27/17	09/28/17	TPH 8015M	
Surrogate: o-Terphenyl		99.0 %	70-130		P712819	09/27/17	09/28/17	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	09/27/17	09/28/17	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

North Jetty Environmental Services	Project: Forehand 27 State #4	Fax:
5004 Whitman Drive	Project Number: 17-0925	
Midland TEXAS, 79705	Project Manager: Coty Woolf	

SS- 2 2-4  
7127002-06 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods									
Chloride	247	1.03	mg/kg dry	1	P7I2817	09/28/17	09/29/17	EPA 300.0	
% Moisture	3.0	0.1	%	1	P7I2901	09/29/17	09/29/17	ASTM D2216	

Permian Basin Environmental Lab, L.P.

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North Jetty Environmental Services  
5004 Whitman Drive  
Midland TEXAS, 79705

Project: Forehand 27 State #4  
Project Number: 17-0925  
Project Manager: Coty Woolf

Fax:

**SS- 3 0-2**  
**7127002-09 (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	0.00106	mg/kg dry	1	P712806	09/27/17	09/28/17	EPA 8021B	
Toluene	ND	0.00213	mg/kg dry	1	P712806	09/27/17	09/28/17	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P712806	09/27/17	09/28/17	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P712806	09/27/17	09/28/17	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P712806	09/27/17	09/28/17	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		85.7 %	75-125		P712806	09/27/17	09/28/17	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		89.7 %	75-125		P712806	09/27/17	09/28/17	EPA 8021B	

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

Chloride	377	1.06	mg/kg dry	1	P712817	09/28/17	09/29/17	EPA 300.0	
% Moisture	6.0	0.1	%	1	P712901	09/29/17	09/29/17	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	26.6	mg/kg dry	1	P712820	09/28/17	09/28/17	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P712820	09/28/17	09/28/17	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P712820	09/28/17	09/28/17	TPH 8015M	
Surrogate: 1-Chlorooctane		107 %	70-130		P712820	09/28/17	09/28/17	TPH 8015M	
Surrogate: o-Terphenyl		98.0 %	70-130		P712820	09/28/17	09/28/17	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	09/28/17	09/28/17	calc	

Permian Basin Environmental Lab, L.P.

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North Jetty Environmental Services	Project: Forehand 27 State #4	Fax:
5004 Whitman Drive	Project Number: 17-0925	
Midland TEXAS, 79705	Project Manager: Coty Woolf	

SS- 3 2-4  
7127002-10 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods									
Chloride	10.5	1.00	mg/kg dry	1	P712817	09/28/17	09/29/17	EPA 300.0	
% Moisture	ND	0.1	%	1	P712901	09/29/17	09/29/17	ASTM D2216	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

North Jetty Environmental Services  
5004 Whitman Drive  
Midland TEXAS, 79705

Project: Forehand 27 State #4  
Project Number: 17-0925  
Project Manager: Coty Woolf

Fax:

**SS- 4 0-2**  
**7127002-13 (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	0.00103	mg/kg dry	1	P712806	09/27/17	09/28/17	EPA 8021B	
Toluene	ND	0.00206	mg/kg dry	1	P712806	09/27/17	09/28/17	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P712806	09/27/17	09/28/17	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P712806	09/27/17	09/28/17	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P712806	09/27/17	09/28/17	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.3 %	75-125		P712806	09/27/17	09/28/17	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		91.2 %	75-125		P712806	09/27/17	09/28/17	EPA 8021B	

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

Chloride	3170	25.8	mg/kg dry	25	P712817	09/28/17	09/29/17	EPA 300.0	
% Moisture	3.0	0.1	%	1	P712901	09/29/17	09/29/17	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.8	mg/kg dry	1	P712820	09/28/17	09/28/17	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P712820	09/28/17	09/28/17	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P712820	09/28/17	09/28/17	TPH 8015M	
Surrogate: 1-Chlorooctane		106 %	70-130		P712820	09/28/17	09/28/17	TPH 8015M	
Surrogate: o-Terphenyl		97.3 %	70-130		P712820	09/28/17	09/28/17	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	09/28/17	09/28/17	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

North Jetty Environmental Services	Project: Forehand 27 State #4	Fax:
5004 Whitman Drive	Project Number: 17-0925	
Midland TEXAS, 79705	Project Manager: Coty Woolf	

SS- 4 2-4  
7127002-14 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods									
Chloride	224	1.03	mg/kg dry	1	P7I2817	09/28/17	09/29/17	EPA 300.0	
% Moisture	3.0	0.1	%	1	P7I2901	09/29/17	09/29/17	ASTM D2216	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

North Jetty Environmental Services  
5004 Whitman Drive  
Midland TEXAS, 79705

Project: Forehand 27 State #4  
Project Number: 17-0925  
Project Manager: Coty Woolf

Fax:

**SS- 5 0-2**  
**7127002-17 (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	0.00105	mg/kg dry	1	P712806	09/27/17	09/28/17	EPA 8021B	
Toluene	ND	0.00211	mg/kg dry	1	P712806	09/27/17	09/28/17	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P712806	09/27/17	09/28/17	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P712806	09/27/17	09/28/17	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P712806	09/27/17	09/28/17	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		92.5 %	75-125		P712806	09/27/17	09/28/17	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		95.9 %	75-125		P712806	09/27/17	09/28/17	EPA 8021B	

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

Chloride	2540	10.5	mg/kg dry	10	P712817	09/28/17	09/29/17	EPA 300.0	
% Moisture	5.0	0.1	%	1	P712901	09/29/17	09/29/17	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	26.3	mg/kg dry	1	P712820	09/28/17	09/28/17	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P712820	09/28/17	09/28/17	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P712820	09/28/17	09/28/17	TPH 8015M	
Surrogate: 1-Chlorooctane		109 %	70-130		P712820	09/28/17	09/28/17	TPH 8015M	
Surrogate: o-Terphenyl		99.1 %	70-130		P712820	09/28/17	09/28/17	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	09/28/17	09/28/17	calc	

Permian Basin Environmental Lab, L.P.

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North Jetty Environmental Services	Project: Forehand 27 State #4	Fax:
5004 Whitman Drive	Project Number: 17-0925	
Midland TEXAS, 79705	Project Manager: Coty Woolf	

SS- 5 2-4  
7127002-18 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods

Chloride	224	1.03	mg/kg dry	1	P712817	09/28/17	09/29/17	EPA 300.0	
% Moisture	3.0	0.1	%	1	P712901	09/29/17	09/29/17	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.8	mg/kg dry	1	P712820	09/28/17	09/28/17	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P712820	09/28/17	09/28/17	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P712820	09/28/17	09/28/17	TPH 8015M	
Surrogate: 1-Chlorooctane		110 %	70-130		P712820	09/28/17	09/28/17	TPH 8015M	
Surrogate: o-Terphenyl		102 %	70-130		P712820	09/28/17	09/28/17	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	09/28/17	09/28/17	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

North Jetty Environmental Services  
5004 Whitman Drive  
Midland TEXAS, 79705

Project: Forehand 27 State #4  
Project Number: 17-0925  
Project Manager: Coty Woolf

Fax:

**SS- 6 0-2**  
**7127002-21 (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	0.00110	mg/kg dry	1	P7J0203	10/02/17	10/02/17	EPA 8021B	
Toluene	ND	0.00220	mg/kg dry	1	P7J0203	10/02/17	10/02/17	EPA 8021B	
Ethylbenzene	ND	0.00110	mg/kg dry	1	P7J0203	10/02/17	10/02/17	EPA 8021B	
Xylene (p/m)	ND	0.00220	mg/kg dry	1	P7J0203	10/02/17	10/02/17	EPA 8021B	
Xylene (o)	ND	0.00110	mg/kg dry	1	P7J0203	10/02/17	10/02/17	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		83.6 %	75-125		P7J0203	10/02/17	10/02/17	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		81.3 %	75-125		P7J0203	10/02/17	10/02/17	EPA 8021B	

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

Chloride	556	1.10	mg/kg dry	1	P7I2817	09/28/17	09/29/17	EPA 300.0	
% Moisture	9.0	0.1	%	1	P7I2901	09/29/17	09/29/17	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	27.5	mg/kg dry	1	P7I2820	09/28/17	09/28/17	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P7I2820	09/28/17	09/28/17	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P7I2820	09/28/17	09/28/17	TPH 8015M	
Surrogate: 1-Chlorooctane		106 %	70-130		P7I2820	09/28/17	09/28/17	TPH 8015M	
Surrogate: o-Terphenyl		97.8 %	70-130		P7I2820	09/28/17	09/28/17	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	09/28/17	09/28/17	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

North Jetty Environmental Services	Project: Forehand 27 State #4	Fax:
5004 Whitman Drive	Project Number: 17-0925	
Midland TEXAS, 79705	Project Manager: Coty Woolf	

SS- 6 2-4  
7127002-22 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods									
Chloride	8.96	1.01	mg/kg dry	1	P7I2915	09/29/17	09/30/17	EPA 300.0	
% Moisture	1.0	0.1	%	1	P7I2901	09/29/17	09/29/17	ASTM D2216	

Permian Basin Environmental Lab, L.P.

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North Jetty Environmental Services	Project: Forehand 27 State #4	Fax:
5004 Whitman Drive	Project Number: 17-0925	
Midland TEXAS, 79705	Project Manager: Coty Woolf	

SS- 7 0-2  
7127002-25 (Soil)

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

<b>Organics by GC</b>									
Benzene	ND	0.00101	mg/kg dry	1	P7J0203	10/02/17	10/02/17	EPA 8021B	
Toluene	ND	0.00202	mg/kg dry	1	P7J0203	10/02/17	10/02/17	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P7J0203	10/02/17	10/02/17	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P7J0203	10/02/17	10/02/17	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P7J0203	10/02/17	10/02/17	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.8 %	75-125		P7J0203	10/02/17	10/02/17	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		110 %	75-125		P7J0203	10/02/17	10/02/17	EPA 8021B	

<b>General Chemistry Parameters by EPA / Standard Methods</b>									
Chloride	3890	25.3	mg/kg dry	25	P7I2915	09/29/17	09/30/17	EPA 300.0	
% Moisture	1.0	0.1	%	1	P7I2901	09/29/17	09/29/17	ASTM D2216	

<b>Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M</b>									
C6-C12	ND	25.3	mg/kg dry	1	P7I2820	09/28/17	09/28/17	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P7I2820	09/28/17	09/28/17	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P7I2820	09/28/17	09/28/17	TPH 8015M	
Surrogate: 1-Chlorooctane		108 %	70-130		P7I2820	09/28/17	09/28/17	TPH 8015M	
Surrogate: o-Terphenyl		99.2 %	70-130		P7I2820	09/28/17	09/28/17	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	09/28/17	09/28/17	calc	

Permian Basin Environmental Lab, L.P.

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North Jetty Environmental Services	Project: Forehand 27 State #4	Fax:
5004 Whitman Drive	Project Number: 17-0925	
Midland TEXAS, 79705	Project Manager: Coty Woolf	

SS- 7 2-4  
7127002-26 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods									
Chloride	21.0	1.00	mg/kg dry	1	P7I2915	09/29/17	09/30/17	EPA 300.0	
% Moisture	ND	0.1	%	1	P7I2901	09/29/17	09/29/17	ASTM D2216	

Permian Basin Environmental Lab, L.P.

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North Jetty Environmental Services  
5004 Whitman Drive  
Midland TEXAS, 79705

Project: Forehand 27 State #4  
Project Number: 17-0925  
Project Manager: Coty Woolf

Fax:

**SS- 8 0-2**  
**7127002-29 (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	P7J0203	10/02/17	10/02/17	EPA 8021B	
Toluene	ND	0.00213	mg/kg dry	1	P7J0203	10/02/17	10/02/17	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P7J0203	10/02/17	10/02/17	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P7J0203	10/02/17	10/02/17	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P7J0203	10/02/17	10/02/17	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		94.6 %	75-125		P7J0203	10/02/17	10/02/17	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		85.7 %	75-125		P7J0203	10/02/17	10/02/17	EPA 8021B	

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

Chloride	282	1.06	mg/kg dry	1	P7I2915	09/29/17	09/30/17	EPA 300.0	
% Moisture	6.0	0.1	%	1	P7I2901	09/29/17	09/29/17	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	26.6	mg/kg dry	1	P7I2820	09/28/17	09/29/17	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P7I2820	09/28/17	09/29/17	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P7I2820	09/28/17	09/29/17	TPH 8015M	
Surrogate: 1-Chlorooctane		105 %	70-130		P7I2820	09/28/17	09/29/17	TPH 8015M	
Surrogate: o-Terphenyl		96.4 %	70-130		P7I2820	09/28/17	09/29/17	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	09/28/17	09/29/17	calc	

Permian Basin Environmental Lab, L.P.

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North Jetty Environmental Services	Project: Forehand 27 State #4	Fax:
5004 Whitman Drive	Project Number: 17-0925	
Midland TEXAS, 79705	Project Manager: Coty Woolf	

SS- 8 2-4  
7127002-30 (Soil)

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

General Chemistry Parameters by EPA / Standard Methods									
Chloride	18.2	1.00	mg/kg dry	1	P7I2915	09/29/17	09/30/17	EPA 300.0	
% Moisture	ND	0.1	%	1	P7I2901	09/29/17	09/29/17	ASTM D2216	

Permian Basin Environmental Lab, L.P.

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North Jetty Environmental Services  
5004 Whitman Drive  
Midland TEXAS, 79705

Project: Forehand 27 State #4  
Project Number: 17-0925  
Project Manager: Coty Woolf

Fax:

**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 P7I2806 - General Preparation (GC)****Blank (P7I2806-BLK1)**

Prepared: 09/27/17 Analyzed: 09/28/17

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: 4-Bromofluorobenzene	0.0587		"	0.0600		97.8	75-125			
Surrogate: 1,4-Difluorobenzene	0.0627		"	0.0600		104	75-125			

**LCS (P7I2806-BS1)**

Prepared &amp; Analyzed: 09/27/17

Benzene	0.104	0.00100	mg/kg wet	0.100		104	70-130			
Toluene	0.0972	0.00200	"	0.100		97.2	70-130			
Ethylbenzene	0.119	0.00100	"	0.100		119	70-130			
Xylene (p/m)	0.218	0.00200	"				70-130			
Xylene (o)	0.107	0.00100	"				70-130			
Surrogate: 1,4-Difluorobenzene	0.0606		"	0.0600		101	75-125			
Surrogate: 4-Bromofluorobenzene	0.0526		"	0.0600		87.7	75-125			

**LCS Dup (P7I2806-BSD1)**

Prepared &amp; Analyzed: 09/27/17

Benzene	0.109	0.00100	mg/kg wet	0.100		109	70-130	4.21	20	
Toluene	0.102	0.00200	"	0.100		102	70-130	5.03	20	
Ethylbenzene	0.114	0.00100	"	0.100		114	70-130	4.87	20	
Xylene (p/m)	0.227	0.00200	"				70-130		20	
Xylene (o)	0.109	0.00100	"				70-130		20	
Surrogate: 1,4-Difluorobenzene	0.0662		"	0.0600		110	75-125			
Surrogate: 4-Bromofluorobenzene	0.0553		"	0.0600		92.1	75-125			

**Matrix Spike (P7I2806-MS1)**

Source: 7I26007-10

Prepared: 09/27/17 Analyzed: 09/28/17

Benzene	0.185	0.00108	mg/kg dry	0.215	ND	86.0	80-120			
Toluene	0.148	0.00215	"	0.215	ND	68.8	80-120			QM-07
Ethylbenzene	0.175	0.00108	"	0.215	ND	81.5	80-120			
Xylene (p/m)	0.297	0.00215	"		ND		80-120			
Xylene (o)	0.167	0.00108	"		ND		80-120			
Surrogate: 1,4-Difluorobenzene	0.0697		"	0.0645		108	75-125			
Surrogate: 4-Bromofluorobenzene	0.0747		"	0.0645		116	75-125			

Permian Basin Environmental Lab, L.P.

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North Jetty Environmental Services	Project: Forehand 27 State #4	Fax:
5004 Whitman Drive	Project Number: 17-0925	
Midland TEXAS, 79705	Project Manager: Coty Woolf	

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 P7I2806 - General Preparation (GC)

Matrix Spike Dup (P7I2806-MSD1)		Source: 7I26007-10		Prepared: 09/27/17		Analyzed: 09/28/17				
Benzene	0.171	0.00108	mg/kg dry	0.215	ND	79.6	80-120	7.70	20	QM-07
Toluene	0.141	0.00215	"	0.215	ND	65.7	80-120	4.64	20	QM-07
Ethylbenzene	0.160	0.00108	"	0.215	ND	74.4	80-120	9.16	20	QM-07
Xylene (p/m)	0.269	0.00215	"		ND		80-120		20	
Xylene (o)	0.148	0.00108	"		ND		80-120		20	
Surrogate: 4-Bromofluorobenzene	0.0624		"	0.0645		96.8	75-125			
Surrogate: 1,4-Difluorobenzene	0.0618		"	0.0645		95.8	75-125			

Batch P7J0203 - General Preparation (GC)

Blank (P7J0203-BLK1)		Prepared & Analyzed: 10/02/17								
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	0.0567		"	0.0600		94.5	75-125			
Surrogate: 4-Bromofluorobenzene	0.0570		"	0.0600		95.0	75-125			

LCS (P7J0203-BS1)		Prepared & Analyzed: 10/02/17								
Benzene	0.0955	0.00100	mg/kg wet	0.100		95.5	70-130			
Toluene	0.0942	0.00200	"	0.100		94.2	70-130			
Ethylbenzene	0.117	0.00100	"	0.100		117	70-130			
Xylene (p/m)	0.208	0.00200	"				70-130			
Xylene (o)	0.102	0.00100	"				70-130			
Surrogate: 1,4-Difluorobenzene	0.0565		"	0.0600		94.1	75-125			
Surrogate: 4-Bromofluorobenzene	0.0529		"	0.0600		88.2	75-125			

North Jetty Environmental Services  
5004 Whitman Drive  
Midland TEXAS, 79705

Project: Forehand 27 State #4  
Project Number: 17-0925  
Project Manager: Coty Woolf

Fax:

**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 P7J0203 - General Preparation (GC)****LCS Dup (P7J0203-BSD1)**

Prepared &amp; Analyzed: 10/02/17

Benzene	0.105	0.00100	mg/kg wet	0.100		105	70-130	9.74	20	
Toluene	0.104	0.00200	"	0.100		104	70-130	10.2	20	
Ethylbenzene	0.112	0.00100	"	0.100		112	70-130	4.02	20	
Xylene (p/m)	0.210	0.00200	"				70-130		20	
Xylene (o)	0.104	0.00100	"				70-130		20	
Surrogate: 4-Bromofluorobenzene	0.0558		"	0.0600		93.1	75-125			
Surrogate: 1,4-Difluorobenzene	0.0647		"	0.0600		108	75-125			

**Matrix Spike (P7J0203-MS1)**

Source: 7127002-29

Prepared &amp; Analyzed: 10/02/17

Benzene	0.0924	0.00106	mg/kg dry	0.106	ND	86.8	80-120			
Toluene	0.0859	0.00213	"	0.106	0.000819	79.9	80-120			QM-07
Ethylbenzene	0.109	0.00106	"	0.106	ND	103	80-120			
Xylene (p/m)	0.199	0.00213	"		ND		80-120			
Xylene (o)	0.0949	0.00106	"		ND		80-120			
Surrogate: 1,4-Difluorobenzene	0.0717		"	0.0638		112	75-125			
Surrogate: 4-Bromofluorobenzene	0.0737		"	0.0638		115	75-125			

**Matrix Spike Dup (P7J0203-MSD1)**

Source: 7127002-29

Prepared &amp; Analyzed: 10/02/17

Benzene	0.0952	0.00106	mg/kg dry	0.106	ND	89.5	80-120	3.07	20	
Toluene	0.0865	0.00213	"	0.106	0.000819	80.5	80-120	0.735	20	
Ethylbenzene	0.113	0.00106	"	0.106	ND	106	80-120	3.27	20	
Xylene (p/m)	0.204	0.00213	"		ND		80-120		20	
Xylene (o)	0.0949	0.00106	"		ND		80-120		20	
Surrogate: 4-Bromofluorobenzene	0.0725		"	0.0638		114	75-125			
Surrogate: 1,4-Difluorobenzene	0.0718		"	0.0638		113	75-125			

Permian Basin Environmental Lab, L.P.

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North Jetty Environmental Services  
5004 Whitman Drive  
Midland TEXAS, 79705

Project: Forehand 27 State #4  
Project Number: 17-0925  
Project Manager: Coty Woolf

Fax:

**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 P7I2816 - \*\*\* DEFAULT PREP \*\*\*****Blank (P7I2816-BLK1)**

Prepared: 09/28/17 Analyzed: 09/29/17

Chloride	ND	1.00	mg/kg wet							
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**LCS (P7I2816-BS1)**

Prepared: 09/28/17 Analyzed: 09/29/17

Chloride	417	1.00	mg/kg wet	400		104	80-120			
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**LCS Dup (P7I2816-BSD1)**

Prepared: 09/28/17 Analyzed: 09/29/17

Chloride	415	1.00	mg/kg wet	400		104	80-120	0.455	20	
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**Duplicate (P7I2816-DUP1)****Source: 7I22006-08**

Prepared: 09/28/17 Analyzed: 09/29/17

Chloride	2750	25.0	mg/kg dry		2600			5.60	20	
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**Duplicate (P7I2816-DUP2)****Source: 7I25007-06**

Prepared: 09/28/17 Analyzed: 09/29/17

Chloride	21400	50.0	mg/kg dry		21200			0.849	20	
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**Matrix Spike (P7I2816-MS1)****Source: 7I22006-08**

Prepared: 09/28/17 Analyzed: 09/29/17

Chloride	5010	25.0	mg/kg dry	2000	2600	121	80-120			QM-07
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**Batch P7I2817 - \*\*\* DEFAULT PREP \*\*\*****Blank (P7I2817-BLK1)**

Prepared: 09/28/17 Analyzed: 09/29/17

Chloride	ND	1.00	mg/kg wet							
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**LCS (P7I2817-BS1)**

Prepared: 09/28/17 Analyzed: 09/29/17

Chloride	442	1.00	mg/kg wet	400		110	80-120			
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**LCS Dup (P7I2817-BSD1)**

Prepared: 09/28/17 Analyzed: 09/29/17

Chloride	439	1.00	mg/kg wet	400		110	80-120	0.563	20	
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Permian Basin Environmental Lab, L.P.

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5004 Whitman Drive	Project Number: 17-0925	
Midland TEXAS, 79705	Project Manager: Coty Woolf	

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 P7I2817 - \*\*\* DEFAULT PREP \*\*\*

Duplicate (P7I2817-DUP1)	Source: 7127002-04			Prepared: 09/28/17 Analyzed: 09/29/17						
Chloride	151	1.03	mg/kg dry		148			2.39	20	
Duplicate (P7I2817-DUP2)	Source: 7127002-12			Prepared: 09/28/17 Analyzed: 09/29/17						
Chloride	25.1	1.00	mg/kg dry		24.4			2.71	20	
Matrix Spike (P7I2817-MS1)	Source: 7127002-04			Prepared: 09/28/17 Analyzed: 09/29/17						
Chloride	1220	1.03	mg/kg dry	1030	148	104	80-120			

Batch P7I2901 - \*\*\* DEFAULT PREP \*\*\*

Blank (P7I2901-BLK1)	Prepared & Analyzed: 09/29/17									
% Moisture	ND	0.1	%							
Duplicate (P7I2901-DUP1)	Source: 7127002-20			Prepared & Analyzed: 09/29/17						
% Moisture	ND	0.1	%		1.0			200	20	
Duplicate (P7I2901-DUP2)	Source: 7127002-32			Prepared & Analyzed: 09/29/17						
% Moisture	1.0	0.1	%		1.0			0.00	20	

Batch P7I2915 - \*\*\* DEFAULT PREP \*\*\*

Blank (P7I2915-BLK1)	Prepared: 09/29/17 Analyzed: 09/30/17									
Chloride	ND	1.00	mg/kg wet							
LCS (P7I2915-BS1)	Prepared: 09/29/17 Analyzed: 09/30/17									
Chloride	418	1.00	mg/kg wet	400		105	80-120			

North Jetty Environmental Services	Project: Forehand 27 State #4	Fax:
5004 Whitman Drive	Project Number: 17-0925	
Midland TEXAS, 79705	Project Manager: Coty Woolf	

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 P7I2915 - *** DEFAULT PREP ***										
LCS Dup (P7I2915-BSD1)				Prepared: 09/29/17 Analyzed: 09/30/17						
Chloride	411	1.00	mg/kg wet	400		103	80-120	1.80	20	
Duplicate (P7I2915-DUP1)				Source: 7127002-22 Prepared: 09/29/17 Analyzed: 09/30/17						
Chloride	8.76	1.01	mg/kg dry		8.96			2.28	20	
Duplicate (P7I2915-DUP2)				Source: 7127002-32 Prepared: 09/29/17 Analyzed: 09/30/17						
Chloride	21.6	1.01	mg/kg dry		22.1			2.13	20	
Matrix Spike (P7I2915-MS1)				Source: 7127002-22 Prepared: 09/29/17 Analyzed: 09/30/17						
Chloride	1060	1.01	mg/kg dry	1010	8.96	104	80-120			

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.

1400 Rankin HWY Midland, TX 79701 432-686-7235

North Jetty Environmental Services  
5004 Whitman Drive  
Midland TEXAS, 79705

Project: Forehand 27 State #4  
Project Number: 17-0925  
Project Manager: Coty Woolf

Fax:

**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 P7I2819 - General Preparation (GC)****Blank (P7I2819-BLK1)**

Prepared: 09/27/17 Analyzed: 09/28/17

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	111		"	100		111	70-130			
Surrogate: o-Terphenyl	50.3		"	50.0		101	70-130			

**LCS (P7I2819-BS1)**

Prepared: 09/27/17 Analyzed: 09/28/17

C6-C12	828	25.0	mg/kg wet	1000		82.8	75-125			
>C12-C28	1100	25.0	"	1000		110	75-125			
Surrogate: 1-Chlorooctane	118		"	100		118	70-130			
Surrogate: o-Terphenyl	56.4		"	50.0		113	70-130			

**LCS Dup (P7I2819-BSD1)**

Prepared: 09/27/17 Analyzed: 09/28/17

C6-C12	818	25.0	mg/kg wet	1000		81.8	75-125	1.26	20	
>C12-C28	1070	25.0	"	1000		107	75-125	2.97	20	
Surrogate: 1-Chlorooctane	117		"	100		117	70-130			
Surrogate: o-Terphenyl	55.4		"	50.0		111	70-130			

**Matrix Spike (P7I2819-MS1)**

Source: 7126008-01

Prepared: 09/27/17 Analyzed: 09/28/17

C6-C12	802	133	mg/kg dry	1060	75.3	68.3	75-125			QM-07
>C12-C28	8040	133	"	1060	9010	NR	75-125			QM-07
Surrogate: 1-Chlorooctane	122		"	106		115	70-130			
Surrogate: o-Terphenyl	48.0		"	53.2		90.2	70-130			

**Matrix Spike Dup (P7I2819-MSD1)**

Source: 7126008-01

Prepared: 09/27/17 Analyzed: 09/28/17

C6-C12	844	133	mg/kg dry	1060	75.3	72.2	75-125	5.62	20	QM-07
>C12-C28	7930	133	"	1060	9010	NR	75-125	NR	20	QM-07
Surrogate: 1-Chlorooctane	109		"	106		102	70-130			
Surrogate: o-Terphenyl	50.3		"	53.2		94.6	70-130			

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.

1400 Rankin HWY Midland, TX 79701 432-686-7235

North Jetty Environmental Services  
5004 Whitman Drive  
Midland TEXAS, 79705

Project: Forehand 27 State #4  
Project Number: 17-0925  
Project Manager: Coty Woolf

Fax:

**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 P7I2820 - General Preparation (GC)**

**Blank (P7I2820-BLK1)**

Prepared & Analyzed: 09/28/17

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	110		"	100		110	70-130			
Surrogate: o-Terphenyl	50.0		"	50.0		99.9	70-130			

**LCS (P7I2820-BS1)**

Prepared & Analyzed: 09/28/17

C6-C12	821	25.0	mg/kg wet	1000		82.1	75-125			
>C12-C28	1060	25.0	"	1000		106	75-125			
Surrogate: 1-Chlorooctane	112		"	100		112	70-130			
Surrogate: o-Terphenyl	54.9		"	50.0		110	70-130			

**LCS Dup (P7I2820-BSD1)**

Prepared & Analyzed: 09/28/17

C6-C12	816	25.0	mg/kg wet	1000		81.6	75-125	0.574	20	
>C12-C28	1070	25.0	"	1000		107	75-125	0.358	20	
Surrogate: 1-Chlorooctane	114		"	100		114	70-130			
Surrogate: o-Terphenyl	53.1		"	50.0		106	70-130			

**Matrix Spike (P7I2820-MS1)**

Source: 7127002-30

Prepared: 09/28/17 Analyzed: 09/29/17

C6-C12	818	25.0	mg/kg dry	1000	13.1	80.5	75-125			
>C12-C28	1100	25.0	"	1000	13.0	108	75-125			
Surrogate: 1-Chlorooctane	112		"	100		112	70-130			
Surrogate: o-Terphenyl	57.6		"	50.0		115	70-130			

**Matrix Spike Dup (P7I2820-MSD1)**

Source: 7127002-30

Prepared: 09/28/17 Analyzed: 09/29/17

C6-C12	810	25.0	mg/kg dry	1000	13.1	79.7	75-125	1.05	20	
>C12-C28	1080	25.0	"	1000	13.0	107	75-125	1.13	20	
Surrogate: 1-Chlorooctane	111		"	100		111	70-130			
Surrogate: o-Terphenyl	46.3		"	50.0		92.5	70-130			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

North Jetty Environmental Services  
5004 Whitman Drive  
Midland TEXAS, 79705

Project: Forehand 27 State #4  
Project Number: 17-0925  
Project Manager: Coty Woolf

Fax:

### 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

Report Approved By:



Date:

10/3/2017

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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1400 Rankin HWY Midland, TX 79701 432-686-7235







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

6-29

Forehand 27 State St

17-09025

**PO#**

**Report Format:** X Standard

**e-mail:**

City Herald - Jan

ORDER # 1121002

## Analyze For:

BTEX by 8021B

Rush 24 48 72 (Please call)	
Standard	

[illegible]

Temperature upon Receipt	
Received:	°C
Adjusted:	4.0 °C

act?	N
ace?	N
(ainer(s)	N
er(s)	N
d	N
ep. ?	N
S DHL	FedEx Lone Star
cept:	
C Factor	Nut LI





**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:**

## X Standard

☐ TRRP

☐ NPDES

**Project Loc:**

**Project Name:**

**Project #:**

**Project #:**

Phone: 432-686-7235  
C429  
~~Acworth Street #~~

Page 31 of 31

Released to Imaging: 9/17/2024 8:06:18 AM

**Bratcher, Mike, EMNRD**

---

**From:** Groves, Amber <agroves@slo.state.nm.us>  
**Sent:** Thursday, October 19, 2017 6:57 AM  
**To:** Bratcher, Mike, EMNRD; Coty Woolf; Weaver, Crystal, EMNRD  
**Cc:** Kevin Garrett; Tony Sam; rnickerson@cazapetro.com  
**Subject:** RE: remediation plan for Forehand 27 State #4  
**Attachments:** Revegetation and Noxious Weed Management Plan.pdf

Coty,

NMSLO denies your plan as written due to the lack of revegetation portion. I have attached our requirements for this portion to this e-mail for your convenience. Please revise and resubmit for approval.

Thank you,

**Amber Groves**

*Remediation Specialist*  
*Field Operations Division*  
(575)392-3697  
(575)263-3209 cell  
New Mexico State Land Office  
2827 N. Dal Paso Suite 117  
Hobbs, NM 88240



.....  
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---

**From:** Bratcher, Mike, EMNRD [mailto:mike.bratcher@state.nm.us]  
**Sent:** Wednesday, October 11, 2017 1:25 PM  
**To:** Coty Woolf <coty.woolf@chargerservices.com>; Groves, Amber <agroves@slo.state.nm.us>; Weaver, Crystal, EMNRD <Crystal.Weaver@state.nm.us>  
**Cc:** Kevin Garrett <kgarrett@cazapetro.com>; Tony Sam <tsam@cazapetro.com>; rnickerson@cazapetro.com  
**Subject:** RE: remediation plan for Forehand 27 State #4

RE: Caza Petroleum \* Forehand Ranch 27 St 4 \* **2RP-4038** \* DOR: Discovered 5/2/16

Coty,

Your proposal for remediation of the above referenced release is approved with the following:

A site ranking has not been established for this site. Lab data was not included with the proposal. Please submit both these items as soon as possible. Please advise once remedial activities have been scheduled. Include Crystal Weaver in future correspondence, and include the referenced 2RP number.

[crystal.weaver@state.nm.us](mailto:crystal.weaver@state.nm.us)

Thank you,

Mike Bratcher  
NMOCD District 2  
811 South First Street  
Artesia, NM 88210  
575-748-1283 Ext 108

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

**From:** Coty Woolf [<mailto:coty.woolf@chargerservices.com>]  
**Sent:** Thursday, October 5, 2017 12:12 PM  
**To:** Bratcher, Mike, EMNRD <[mike.bratcher@state.nm.us](mailto:mike.bratcher@state.nm.us)>; Amber Groves <[agroves@slo.state.nm.us](mailto:agroves@slo.state.nm.us)>  
**Cc:** Kevin Garrett <[kgarrett@cazapetro.com](mailto:kgarrett@cazapetro.com)>; Tony Sam <[tsam@cazapetro.com](mailto:tsam@cazapetro.com)>; [rnickerson@cazapetro.com](mailto:rnickerson@cazapetro.com)  
**Subject:** remediation plan for Forehand 27 State #4

Mike,

Please find attached the remediation plan for the Caza Petroleum Forehand 27 State #4 spill. Please let me know if you need any additional information for the site.

Regards,  
Coty Woolf  
President  
North Jetty Environmental Services, LLC  
325-669-5735 cell  
432-897-4988 office  
[cotywoolf@icloud.com](mailto:cotywoolf@icloud.com)

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### **NMSLO Surface Reclamation and Remediation: Revegetation and Noxious Weed Management Plans**

Any site remediation or reclamation proposal involving State Trust Land, including any proposal requiring the authorization of the NMOCD, must be accompanied by a Revegetation and Noxious Weed Management Plan. The Plan must be approved by NMSLO staff prior to implementation. In addition, the NMSLO will NOT release the operator from the responsibility of revegetating the surface site until the final report has been submitted, the work approved, and all other requirements are met.

The goal is to achieve native plant cover and diversity levels equal to or exceeding the natural potential levels in undisturbed soils adjacent to the project area. The Plan should include the following:

Seed mix (native seed only), seeding rate/acre, method of dispersal, timing of dispersal, follow up monitoring plan, a re-seeding plan if initial efforts are unsuccessful, a plan for addressing noxious weeds, and a final report. The report should include a brief narrative of the seeding and monitoring efforts plus photos of the seeding process and of the revegetated area.

The Noxious Weed component of the Plan should include identification of the species of concern and the methods used to eradicate those species from the site. Eradication techniques may include mechanical treatment, chemical treatment, follow-up and monitoring. Submittals should be sent directly to Ms. Amber Groves, NMSLO Remediation Specialist, at [agroves@slo.state.nm.us](mailto:agroves@slo.state.nm.us) or call 575-392-3697 for more information.

All seed mixtures submitted for approval must specify pounds of pure live seed per acre. The seed shall contain no primary or secondary noxious weeds. Commercially sold seed will be either certified or registered seed.

Once the report has been submitted and the work approved, the NMSLO will provide acknowledgment that remediation requirements have been met.

**Bratcher, Mike, EMNRD**

---

**From:** Coty Woolf <coty.woolf@chargerservices.com>  
**Sent:** Thursday, October 19, 2017 7:47 AM  
**To:** Groves, Amber  
**Cc:** Bratcher, Mike, EMNRD; Weaver, Crystal, EMNRD; Kevin Garrett; Tony Sam; rnickerson@cazapetro.com  
**Subject:** Re: remediation plan for Forehand 27 State #4

Amber,  
I'll get this over to you today. Is there a specific seed mix NMSLO requires for the area?  
Regards  
Coty

Sent from my iPhone

On Oct 19, 2017, at 7:56 AM, Groves, Amber <[agroves@slo.state.nm.us](mailto:agroves@slo.state.nm.us)> wrote:

Coty,

NMSLO denies your plan as written due to the lack of revegetation portion. I have attached our requirements for this portion to this e-mail for your convenience. Please revise and resubmit for approval.

Thank you,

<image003.png>**Amber Groves**  
*Remediation Specialist*  
*Field Operations Division*  
(575)392-3697  
(575)263-3209 cell  
New Mexico State Land Office  
2827 N. Dal Paso Suite 117  
Hobbs, NM 88240

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---

**From:** Bratcher, Mike, EMNRD [<mailto:mike.bratcher@state.nm.us>]  
**Sent:** Wednesday, October 11, 2017 1:25 PM  
**To:** Coty Woolf <[coty.woolf@chargerservices.com](mailto:coty.woolf@chargerservices.com)>; Groves, Amber <[agroves@slo.state.nm.us](mailto:agroves@slo.state.nm.us)>; Weaver, Crystal, EMNRD <[Crystal.Weaver@state.nm.us](mailto:Crystal.Weaver@state.nm.us)>

**Cc:** Kevin Garrett <[kgarrett@cazapetro.com](mailto:kgarrett@cazapetro.com)>; Tony Sam <[tsam@cazapetro.com](mailto:tsam@cazapetro.com)>;  
[rnickerson@cazapetro.com](mailto:rnickerson@cazapetro.com)

**Subject:** RE: remediation plan for Forehand 27 State #4

RE: Caza Petroleum \* Forehand Ranch 27 St 4 \* **2RP-4038** \* DOR: Discovered 5/2/16

Coty,

Your proposal for remediation of the above referenced release is approved with the following:

A site ranking has not been established for this site. Lab data was not included with the proposal. Please submit both these items as soon as possible. Please advise once remedial activities have been scheduled. Include Crystal Weaver in future correspondence, and include the referenced 2RP number. [crystal.weaver@state.nm.us](mailto:crystal.weaver@state.nm.us)

Thank you,

Mike Bratcher  
NMOCD District 2  
811 South First Street  
Artesia, NM 88210  
575-748-1283 Ext 108

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

**From:** Coty Woolf [<mailto:coty.woolf@chargerservices.com>]

**Sent:** Thursday, October 5, 2017 12:12 PM

**To:** Bratcher, Mike, EMNRD <[mike.bratcher@state.nm.us](mailto:mike.bratcher@state.nm.us)>; Amber Groves <[agroves@slo.state.nm.us](mailto:agroves@slo.state.nm.us)>

**Cc:** Kevin Garrett <[kgarrett@cazapetro.com](mailto:kgarrett@cazapetro.com)>; Tony Sam <[tsam@cazapetro.com](mailto:tsam@cazapetro.com)>;  
[rnickerson@cazapetro.com](mailto:rnickerson@cazapetro.com)

**Subject:** remediation plan for Forehand 27 State #4

Mike,

Please find attached the remediation plan for the Caza Petroleum Forehand 27 State #4 spill. Please let me know if you need any additional information for the site.

Regards,  
Coty Woolf  
President  
North Jetty Environmental Services, LLC  
325-669-5735 cell  
432-897-4988 office  
[cotywoolf@icloud.com](mailto:cotywoolf@icloud.com)

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<Revegetation and Noxious Weed Management Plan.pdf>

**Bratcher, Mike, EMNRD**

---

**From:** Groves, Amber <agroves@slo.state.nm.us>  
**Sent:** Thursday, October 19, 2017 8:03 AM  
**To:** Coty Woolf  
**Cc:** Bratcher, Mike, EMNRD; Weaver, Crystal, EMNRD; Kevin Garrett; Tony Sam; rnickerson@cazapetro.com  
**Subject:** RE: remediation plan for Forehand 27 State #4

Coty,

You may use a BLM mixture or an appropriate mixture for the area, however it cannot contain lovegrass.

Thank you,

**Amber Groves**

*Remediation Specialist*  
*Field Operations Division*  
(575)392-3697  
(575)263-3209 cell  
New Mexico State Land Office  
2827 N. Dal Paso Suite 117  
Hobbs, NM 88240



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**From:** Coty Woolf [mailto:coty.woolf@chargerservices.com]  
**Sent:** Thursday, October 19, 2017 7:47 AM  
**To:** Groves, Amber <agroves@slo.state.nm.us>  
**Cc:** Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Weaver, Crystal, EMNRD <Crystal.Weaver@state.nm.us>; Kevin Garrett <kgarrett@cazapetro.com>; Tony Sam <tsam@cazapetro.com>; rnickerson@cazapetro.com  
**Subject:** Re: remediation plan for Forehand 27 State #4

Amber,  
I'll get this over to you today. Is there a specific seed mix NMSLO requires for the area?  
Regards  
Coty

Sent from my iPhone

On Oct 19, 2017, at 7:56 AM, Groves, Amber <[agroves@slo.state.nm.us](mailto:agroves@slo.state.nm.us)> wrote:



Coty,

NMSLO denies your plan as written due to the lack of revegetation portion. I have attached our requirements for this portion to this e-mail for your convenience. Please revise and resubmit for approval.

Thank you,

<image003.png>**Amber Groves**

*Remediation Specialist*

*Field Operations Division*

(575)392-3697

(575)263-3209 cell

New Mexico State Land Office

2827 N. Dal Paso Suite 117

Hobbs, NM 88240

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**From:** Bratcher, Mike, EMNRD [<mailto:mike.bratcher@state.nm.us>]

**Sent:** Wednesday, October 11, 2017 1:25 PM

**To:** Coty Woolf <[coty.woolf@chargerservices.com](mailto:coty.woolf@chargerservices.com)>; Groves, Amber <[agroves@slo.state.nm.us](mailto:agroves@slo.state.nm.us)>; Weaver, Crystal, EMNRD <[Crystal.Weaver@state.nm.us](mailto:Crystal.Weaver@state.nm.us)>

**Cc:** Kevin Garrett <[kgarrett@cazapetro.com](mailto:kgarrett@cazapetro.com)>; Tony Sam <[tsam@cazapetro.com](mailto:tsam@cazapetro.com)>; [rnickerson@cazapetro.com](mailto:rnickerson@cazapetro.com)

**Subject:** RE: remediation plan for Forehand 27 State #4

RE: Caza Petroleum \* Forehand Ranch 27 St 4 \* **2RP-4038** \* DOR: Discovered 5/2/16

Coty,

Your proposal for remediation of the above referenced release is approved with the following:

A site ranking has not been established for this site. Lab data was not included with the proposal. Please submit both these items as soon as possible. Please advise once remedial activities have been scheduled. Include Crystal Weaver in future correspondence, and include the referenced 2RP number. [crystal.weaver@state.nm.us](mailto:crystal.weaver@state.nm.us)

Thank you,

Mike Bratcher  
NMOCD District 2

811 South First Street  
Artesia, NM 88210  
575-748-1283 Ext 108

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**From:** Coty Woolf [<mailto:coty.woolf@chargerservices.com>]  
**Sent:** Thursday, October 5, 2017 12:12 PM  
**To:** Bratcher, Mike, EMNRD <[mike.bratcher@state.nm.us](mailto:mike.bratcher@state.nm.us)>; Amber Groves <[agroves@slo.state.nm.us](mailto:agroves@slo.state.nm.us)>  
**Cc:** Kevin Garrett <[kgarrett@cazapetro.com](mailto:kgarrett@cazapetro.com)>; Tony Sam <[tsam@cazapetro.com](mailto:tsam@cazapetro.com)>; [rnickerson@cazapetro.com](mailto:rnickerson@cazapetro.com)  
**Subject:** remediation plan for Forehand 27 State #4

Mike,

Please find attached the remediation plan for the Caza Petroleum Forehand 27 State #4 spill. Please let me know if you need any additional information for the site.

Regards,  
Coty Woolf  
President  
North Jetty Environmental Services, LLC  
325-669-5735 cell  
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<Revegetation and Noxious Weed Management Plan.pdf>

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## Bratcher, Mike, EMNRD

---

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**Sent:** Tuesday, October 24, 2017 6:39 AM  
**To:** Groves, Amber  
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**Subject:** Re: remediation plan for Forehand 27 State #4  
**Attachments:** Forehand 27 State #4 update.pdf

All,  
Please find attached the updated remediation plan with re-vegetation plan added.  
Regards,  
Coty

On Thu, Oct 19, 2017 at 9:02 AM, Groves, Amber <[agroves@slo.state.nm.us](mailto:agroves@slo.state.nm.us)> wrote:

Coty,

You may use a BLM mixture or an appropriate mixture for the area, however it cannot contain lovegrass.

Thank you,



**Amber Groves**

*Remediation Specialist*

*Field Operations Division*

[\(575\)392-3697](tel:(575)392-3697)

[\(575\)263-3209](tel:(575)263-3209) cell

New Mexico State Land Office

2827 N. Dal Paso Suite 117

Hobbs, NM 88240

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**Cc:** Bratcher, Mike, EMNRD <[mike.bratcher@state.nm.us](mailto:mike.bratcher@state.nm.us)>; Weaver, Crystal, EMNRD <[Crystal.Weaver@state.nm.us](mailto:Crystal.Weaver@state.nm.us)>; Kevin Garrett <[kgarrett@cazapetro.com](mailto:kgarrett@cazapetro.com)>; Tony Sam <[tsam@cazapetro.com](mailto:tsam@cazapetro.com)>; [rnickerson@cazapetro.com](mailto:rnickerson@cazapetro.com)

**Subject:** Re: remediation plan for Forehand 27 State #4

Amber,

I'll get this over to you today. Is there a specific seed mix NMSLO requires for the area?

Regards

Coty

Sent from my iPhone

On Oct 19, 2017, at 7:56 AM, Groves, Amber <[agroves@slo.state.nm.us](mailto:agroves@slo.state.nm.us)> wrote:

Coty,

NMSLO denies your plan as written due to the lack of revegetation portion. I have attached our requirements for this portion to this e-mail for your convenience. Please revise and resubmit for approval.

Thank you,

<image003.png>Amber Groves

Remediation Specialist

Field Operations Division

[\(575\)392-3697](tel:(575)392-3697)

[\(575\)263-3209](tel:(575)263-3209) cell

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**Subject:** RE: remediation plan for Forehand 27 State #4

RE: Caza Petroleum \* Forehand Ranch 27 St 4 \* **2RP-4038** \* DOR: Discovered 5/2/16

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Thank you,

Mike Bratcher

NMOCD District 2

811 South First Street

Artesia, NM 88210

[575-748-1283 Ext 108](tel:575-748-1283)

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**Sent:** Thursday, October 5, 2017 12:12 PM

**To:** Bratcher, Mike, EMNRD <[mike.bratcher@state.nm.us](mailto:mike.bratcher@state.nm.us)>; Amber Groves <[agroves@slo.state.nm.us](mailto:agroves@slo.state.nm.us)>

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[rnickerson@cazapetro.com](mailto:rnickerson@cazapetro.com)

**Subject:** remediation plan for Forehand 27 State #4

Mike,

Please find attached the remediation plan for the Caza Petroleum Forehand 27 State #4 spill. Please let me know if you need any additional information for the site.

Regards,

Coty Woolf

President

North Jetty Environmental Services, LLC

[325-669-5735](tel:325-669-5735) cell

[432-897-4988](tel:432-897-4988) office

[cotywoolf@icloud.com](mailto:cotywoolf@icloud.com)

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<Revegetation and Noxious Weed Management Plan.pdf>

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**North Jetty**

Environmental Services, LLC

October 5, 2017

VIA EMAIL: mike.bratcher@state.nm.us

Mike Bratcher  
NMOCD District 2  
811 S. First Street  
Artesia, NM 88210  
O: 575-748-1283 X108  
C: 575-626-0857  
F: 575-748-9720

**Re: Remediation Plan for Spill Remediation, Forehand 27 State # 4, Eddy County, New Mexico**

Dear Mr. Bratcher:

North Jetty Environmental Services, LLC (North Jetty) appreciates the opportunity to provide this remediation plan for Caza Petroleum, Inc. (Caza), to remediate the Forehand 27 State #4 spill in Eddy County, New Mexico.

#### **DELINEATION**

On September 12, 2017, North Jetty field personnel delineated a produced water spill at the Caza Forehand 27 State #4 (Site) located at 32°16'40.66"N, 104°10'18.05"W in Eddy County, New Mexico. Caza reported an unknown quantity of produced water was lost at the Site and covering approximately 27,300 sq. ft. of the facility and state land. This was confirmed during the investigation and photo documentation was used to record the condition during the investigation. The delineation of the Site revealed impacted soil up to two (2') feet below ground surface (bgs). Table 1 presents the laboratory results from the delineation. The site score for this spill is zero (0) with groundwater greater than 100 ft bgs and surface water greater than 1,000 ft from release area. Figure 1 presents the sample points.

#### **REMEDIATION PLAN**

North Jetty proposes to excavate the impacted area with a backhoe to remove the impacted soil from 1.0 to 2.0 feet below ground surface (bgs), sample soil for cleanup confirmation, hauling impacted soil to disposal, and back fill excavation with clean soil. North Jetty will submit a final report to Caza and the New Mexico Oil Conservation Division (NMOCD) once the work is complete. It is expected to take five (5) days to excavate, sample, haul impacted soil, and back fill excavation. The soil samples will be placed in clean 4-ounce jars, sealed, labeled, chilled in an ice chest and delivered under chain of custody to Permian Basin Environmental Labs located in Midland, Texas. The laboratory will analyze the samples for BTEX

PO Box 52483 ♦ Midland, Texas 79710 ♦ Ph. (432) 897-4988 ♦ Fax (432) 897-4977



by SW-8021, TPH by method SW-8015M, and chloride by method E300. All excavated areas during remediation will be delineated for chlorides below 250 mg/kg vertically two (2) feet below excavation surface and horizontally by two hundred (200) feet from excavation walls. The sample results will take approximately two weeks on normal turnaround time and will dictate the soil disposal. This is expected to take five (5) days to complete with a final report to follow once all data is collected.

#### REVEGETATION AND NOXIOUS WEED MANAGEMENT PLAN

North Jetty proposes to re-seed the native land with Warm Season SSR ON OR ABOUT May 1, 2018. The seed will be dispersed at ten (10) pounds per acre with a mechanical spreader. The Site will be monitored for six months on a monthly basis to insure proper growth conditions exist as well as to monitor for noxious weeds. All noxious weeds will be removed mechanically as needed. The seed is approved by BLM and contains no love grass or noxious weed mix. Follow up seeding will be done on an as needed basis. A final report will be generated upon completion of the revegetation.

Equipment decontamination, sample collection, field documentation, sample custody, and laboratory analyses will be in general accordance with industry standards of practice and in conformance with applicable Federal and State regulations. All work will be performed under the supervision of a qualified environmental professional. All laboratory work will be performed under standard turn-around times and costs, unless otherwise directed.

#### AUTHORIZATION

If this plan is acceptable to you, please sign below as notice to proceed and return one copy of this plan intact to our office. We will proceed with the work upon receipt of proposal authorization. You may contact me at (325) 669-5735 (cell) to discuss any questions you may have.

Respectfully submitted,

North Jetty Environmental Services, LLC



Coty Woolf  
President  
North Jetty Environmental Services, LLC  
325.669.5735 cell  
432.897.4988 office  
432.897.4977 fax  
[cotywoolf@icloud.com](mailto:cotywoolf@icloud.com)

## AUTHORIZATION

If this plan is acceptable to you, please sign below as notice to proceed and return one copy of this proposal intact to our office. We will proceed with the work upon receipt of proposal authorization and executed consulting services agreement.

AGREED TO, THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 2017

BY (please print): \_\_\_\_\_

TITLE: \_\_\_\_\_

COMPANY: \_\_\_\_\_

SIGNATURE: \_\_\_\_\_

**Bratcher, Mike, EMNRD**

---

**From:** Groves, Amber <agroves@slo.state.nm.us>  
**Sent:** Tuesday, October 24, 2017 6:44 AM  
**To:** Coty Woolf  
**Cc:** Coty Woolf; Bratcher, Mike, EMNRD; Weaver, Crystal, EMNRD; Kevin Garrett; Tony Sam; rnickerson@cazapetro.com  
**Subject:** RE: remediation plan for Forehand 27 State #4

Coty,

Your plan is approved with NMSLO.

Thank you,

**Amber Groves**

*Remediation Specialist*  
*Field Operations Division*  
(575)392-3697  
(575)263-3209 cell  
New Mexico State Land Office  
2827 N. Dal Paso Suite 117  
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Thank you,

<image003.png> **Amber Groves**

*Remediation Specialist*

*Field Operations Division*

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**From:** [Weaver, Crystal, EMNRD](#)  
**To:** ["Coty Woolf"](#); [Bratcher, Mike, EMNRD](#); [Groves, Amber](#)  
**Subject:** RE: Caza Forehand 27 State #4 new spill  
**Date:** Thursday, March 15, 2018 2:34:00 PM  
**Attachments:** [1. 4619 - COAs and signed C-141 Initial.pdf](#)  
[16.OCD approval.pdf](#)

---

RE: Caza \* Forehand 27 State #4 \* 30-015-42309 \* 2RP-4619

Coty,

I have included a scanned copy of the signed Initial C-141 Remediation Permit along with an attached Conditions of Approval (COA). The OCD tracking number for this event is 2RP-4619, please refer to this tracking number on any and all submissions sent in to the OCD. Please remit a site characterization plan (see COA document included in attachment) or advise OCD of plan of action immediately since this one has a due date of 3/1/18 and that has passed.

**Please note:** I also show another open 2RP case number for this API location. 2RP-4038 has a work plan that was approved by OCD on 10/11/17 ( above I attached that approval from OCD for your reference). OCD will need an update on the progress and status of this project by no later than 3/19/18.

Thank you,

**Crystal Weaver**

Environmental Specialist  
OCD – Artesia District II  
811 S. 1<sup>st</sup> Street  
Artesia, NM 88210  
Office: 575-748-1283 ext. 101  
Cell: 575-840-5963  
Fax: 575-748-9720

**From:** Coty Woolf [mailto:northjettyservices@gmail.com]  
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**Subject:** Caza Forehand 27 State #4 new spill

All,

Please find attached the initial C-141 for a new spill at the Caza Forehand 27 State #4 SWD facility. I will have a delineation plan sent along shortly.

Regards,

Coty Woolf  
President/Senior Project Manager  
North Jetty Environmental Services, LLC  
432-897-4988 office  
432-897-4977 fax  
325-669-5735 cell  
[northjettyervices@gmail.com](mailto:northjettyervices@gmail.com)

**From:** [Weaver, Crystal, EMNRD](#)  
**To:** ["Coty Woolf"; Bratcher, Mike, EMNRD](#)  
**Cc:** [MNaranjo@slo.state.nm.us](mailto:MNaranjo@slo.state.nm.us)  
**Subject:** FW: Caza Forehand 27 State #4 new spill  
**Date:** Thursday, March 15, 2018 2:36:00 PM  
**Attachments:** [1. 4619 - COAs and signed C-141 Initial.pdf](#)  
[16.OCD approval.pdf](#)

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Sorry all,

I forgot to take Amber Groves off and add Mark Naranjo on my submission I just sent.

Mark please see what I had sent below along with the attachments above.

Thank you,

## Crystal Weaver

Environmental Specialist

OCD – Artesia District II

811 S. 1<sup>st</sup> Street

Artesia, NM 88210

Office: 575-748-1283 ext. 101

Cell: 575-840-5963

Fax: 575-748-9720

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**From:** Weaver, Crystal, EMNRD  
**Sent:** Thursday, March 15, 2018 2:34 PM  
**To:** 'Coty Woolf' <northjettyservices@gmail.com>; Bratcher, Mike, EMNRD  
<mike.bratcher@state.nm.us>; Groves, Amber <agroves@slo.state.nm.us>  
**Subject:** RE: Caza Forehand 27 State #4 new spill

RE: Caza \* Forehand 27 State #4 \* 30-015-42309 \* 2RP-4619

Coty,

I have included a scanned copy of the signed Initial C-141 Remediation Permit along with an attached Conditions of Approval (COA). The OCD tracking number for this event is 2RP-4619, please refer to this tracking number on any and all submissions sent in to the OCD. Please remit a site characterization plan (see COA document included in attachment) or advise OCD of plan of action immediately since this one has a due date of 3/1/18 and that has passed.

**Please note:** I also show another open 2RP case number for this API location. 2RP-4038 has a work

plan that was approved by OCD on 10/11/17 ( above I attached that approval from OCD for your reference). OCD will need an update on the progress and status of this project by no later than 3/19/18.

Thank you,

**Crystal Weaver**

Environmental Specialist  
OCD – Artesia District II  
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Artesia, NM 88210  
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Cell: 575-840-5963  
Fax: 575-748-9720

**From:** Coty Woolf [<mailto:northjettyervices@gmail.com>]

**Sent:** Monday, January 29, 2018 8:44 AM

**To:** Bratcher, Mike, EMNRD <[mike.bratcher@state.nm.us](mailto:mike.bratcher@state.nm.us)>; Groves, Amber <[agroves@slo.state.nm.us](mailto:agroves@slo.state.nm.us)>; Weaver, Crystal, EMNRD <[Crystal.Weaver@state.nm.us](mailto:Crystal.Weaver@state.nm.us)>

**Subject:** Caza Forehand 27 State #4 new spill

All,

Please find attached the initial C-141 for a new spill at the Caza Forehand 27 State #4 SWD facility. I will have a delineation plan sent along shortly.

Regards,

Coty Woolf

President/Senior Project Manager  
North Jetty Environmental Services, LLC  
432-897-4988 office  
432-897-4977 fax  
325-669-5735 cell  
[northjettyervices@gmail.com](mailto:northjettyervices@gmail.com)

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**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico  
Energy, Minerals and Natural Resources  
Oil Conservation Division  
1220 S. St Francis Dr.  
Santa Fe, NM 87505

CONDITIONS  
  
Action 384152

CONDITIONS

Operator: CAZA OPERATING, LLC 200 N Loraine St Midland, TX 79701	OGRID: 249099
	Action Number: 384152
	Action Type: [IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	Historical document upload.	9/17/2024