



North Jetty

Environmental Services, LLC

June 13, 2018

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 Report 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 report for Caza Petroleum, Inc. (Caza), to request backfill authorization for the Forehand 27 State #4 remediation in Eddy County, New Mexico.

DELINEATION

On January 26, 2018, 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 a 100 bbl quantity of produced water was lost at the Site and covering approximately 35,800 sq. ft. of the Caza facility, Lucid 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 three (3') 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 aerial map with sample points. Table 1 presents the laboratory results.

REMEDIATION PLAN

Between January 26, 2018 and June 1, 2018, North Jetty excavated the impacted area with a backhoe to remove the impacted soil down to 3.0 feet below ground surface (bgs). Soil samples for cleanup confirmation were collected on May 21, 2018 and June 1, 2018. Impacted soil was hauled to disposal. North Jetty will submit a final report to Caza, Lucid, and

the New Mexico Oil Conservation Division (NMOCD) once the backfill is complete. It is expected to take two (2) days to back fill excavation.

The soil samples were placed in clean 2-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 analyzed the samples for BTEX by SW-8021, TPH by method SW-8015M, and chloride by method E300.

REVEGETATION AND NOXIOUS WEED MANAGEMENT PLAN

North Jetty proposes to re-seed the native land after backfilling excavation with Warm Season SSR ON OR ABOUT July 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 report 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

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 _____, 2018

BY (please print): _____

TITLE: _____

COMPANY: _____

SIGNATURE: _____

TABLES

Table 1
Soil Samples Analytical Summary
Caza Petroleum, Forehand 27 State # 4
Eddie County, New Mexico

Boring	Depth Feet BGS	Date	Chloride mg/Kg	Benzene mg/kg	Toluene mg/kg	Ethylbenzene mg/kg	Xylene mg/kg	GRO mg/Kg	DRO mg/Kg	Oil mg/Kg	Total TPH mg/Kg
RRAL:											
SS-1	0-1	1/26/2018	21,400	<0.00111	<0.0111	<0.00556	<0.0222	<27.8	<27.8	<27.8	<27.8
	1-2	1/26/2018	17,900	--	--	--	--	--	--	--	--
	2-3	1/26/2018	17,100	--	--	--	--	--	--	--	--
	2-3	5/21/2018	117	--	--	--	--	--	--	--	--
	3-4	5/21/2018	36.0	--	--	--	--	--	--	--	--
SS-2	0-1	1/26/2018	24,100	<0.00110	<0.0110	<0.00549	<0.0220	<27.5	<27.5	<27.5	<27.5
	1-2	1/26/2018	20,100	--	--	--	--	--	--	--	--
	2-3	1/26/2018	18,800	--	--	--	--	--	--	--	--
	2-3	5/21/2018	103	--	--	--	--	--	--	--	--
	3-4	5/21/2018	44.9	--	--	--	--	--	--	--	--
SS-3	0-1	1/26/2018	18,300	<0.00111	<0.0111	<0.00556	<0.0222	<27.8	<27.8	<27.8	<27.8
	1-2	1/26/2018	12,600	--	--	--	--	--	--	--	--
	2-3	1/26/2018	8,190	--	--	--	--	--	--	--	--
	2-3	5/21/2018	101	--	--	--	--	--	--	--	--
	3-4	5/21/2018	37.5	--	--	--	--	--	--	--	--
SS-4	0-1	1/26/2018	1,510	<0.00109	<0.0109	<0.00543	<0.0217	<27.2	<27.2	<27.2	<27.2
	1-2	1/26/2018	476	--	--	--	--	--	--	--	--
	2-3	1/26/2018	532	--	--	--	--	--	--	--	--
	2-3	5/21/2018	83.8	--	--	--	--	--	--	--	--
	3-4	5/21/2018	36.6	--	--	--	--	--	--	--	--
SS-5	0-1	1/26/2018	2,810	<0.00112	<0.0112	<0.00562	<0.0225	<28.1	<28.1	<28.1	<28.1
	1-2	1/26/2018	1,480	--	--	--	--	--	--	--	--
	2-3	1/26/2018	465	--	--	--	--	--	--	--	--
	2-3	5/21/2018	87.0	--	--	--	--	--	--	--	--
	3-4	5/21/2018	80.6	--	--	--	--	--	--	--	--
SS-6	0-1	1/26/2018	29,600	<0.00112	<0.0112	<0.00562	<0.0225	<28.1	<28.1	<28.1	<28.1
	1-2	1/26/2018	15,400	--	--	--	--	--	--	--	--
	2-3	1/26/2018	7,920	--	--	--	--	--	--	--	--
	2-3	5/21/2018	75.1	--	--	--	--	--	--	--	--
	3-4	5/21/2018	17.9	--	--	--	--	--	--	--	--
SS-7	0-1	1/26/2018	17,300	<0.00111	<0.0111	<0.00556	<0.0222	<27.8	<27.8	<27.8	<27.8
	1-2	1/26/2018	11,500	--	--	--	--	--	--	--	--
	2-3	1/26/2018	10,800	--	--	--	--	--	--	--	--
	2-3	5/21/2018	76.5	--	--	--	--	--	--	--	--
	3-4	5/21/2018	64.7	--	--	--	--	--	--	--	--
SS-8	0-1	1/26/2018	15,500	<0.00109	<0.0109	<0.00543	<0.0217	<27.2	<27.2	<27.2	<27.2
	1-2	1/26/2018	10,400	--	--	--	--	--	--	--	--
	2-3	1/26/2018	6,760	--	--	--	--	--	--	--	--
	2-3	5/21/2018	78.6	--	--	--	--	--	--	--	--
	3-4	5/21/2018	55.4	--	--	--	--	--	--	--	--
SS-9	0-1	1/26/2018	22,100	<0.00114	<0.114	<0.00568	<0.0227	<28.4	<28.4	<28.4	<28.4
	1-2	1/26/2018	9,800	--	--	--	--	--	--	--	--
	2-3	1/26/2018	9,440	--	--	--	--	--	--	--	--
	2-3	5/21/2018	82.1	--	--	--	--	--	--	--	--
	3-4	5/21/2018	56.9	--	--	--	--	--	--	--	--
SS-10	0-1	1/26/2018	16,700	<0.00116	<0.0116	<0.00581	<0.0233	<29.1	<29.1	<29.1	<29.1
	1-2	1/26/2018	6,240	--	--	--	--	--	--	--	--
	2-3	1/26/2018	6,400	--	--	--	--	--	--	--	--
	2-3	5/21/2018	88.4	--	--	--	--	--	--	--	--
	3-4	5/21/2018	56.5	--	--	--	--	--	--	--	--
SS-11	0-1	1/26/2018	9,760	<0.00114	<0.0114	<0.00558	<0.0227	<28.4	<28.4	<28.4	<28.4
	1-2	1/26/2018	1,450	--	--	--	--	--	--	--	--
	2-3	1/26/2018	396	--	--	--	--	--	--	--	--
	2-3	5/21/2018	91.7	--	--	--	--	--	--	--	--
	3-4	5/21/2018	52.2	--	--	--	--	--	--	--	--

Table 1
Soil Samples Analytical Summary
Caza Petroleum, Forehand 27 State # 4
Eddie County, New Mexico

Boring	Depth Feet BGS	Date	Chloride mg/Kg	Benzene mg/kg	Toluene mg/kg	Ethylbenzene mg/kg	Xylene mg/kg	GRO mg/Kg	DRO mg/Kg	Oil mg/Kg	Total TPH mg/Kg
RRAL:											
SS-12	0 - 1	1/26/2018	1,920	<0.00110	<0.0110	<0.00549	<0.220	<27.5	<27.5	<27.5	<27.5
	1 - 2	1/26/2018	639	--	--	--	--	--	--	--	--
	2 - 3	1/26/2018	212	--	--	--	--	--	--	--	--
	2 - 3	5/21/2018	86.1	--	--	--	--	--	--	--	--
	3 - 4	5/21/2018	52.9	--	--	--	--	--	--	--	--
SS-13	0 - 1	1/26/2018	4,630	<0.00122	<0.0122	<0.00610	<0.0244	<30.5	<30.5	<30.5	<30.5
	1 - 2	1/26/2018	669	--	--	--	--	--	--	--	--
	2 - 3	1/26/2018	280	--	--	--	--	--	--	--	--
	2 - 3	5/21/2018	3,470	--	--	--	--	--	--	--	--
	3 - 4	5/21/2018	4,820	--	--	--	--	--	--	--	--
	3 - 4	6/1/2018	<1.10	--	--	--	--	--	--	--	--
SS-14	0 - 1	1/26/2018	1,150	<0.00116	<0.0116	<0.00581	<0.0233	<29.1	<29.1	<29.1	<29.1
	1 - 2	1/26/2018	150	--	--	--	--	--	--	--	--
	2 - 3	1/26/2018	141	--	--	--	--	--	--	--	--
	2 - 3	5/21/2018	3,060	--	--	--	--	--	--	--	--
	3 - 4	5/21/2018	5,090	--	--	--	--	--	--	--	--
	3 - 4	6/1/2018	26.8	--	--	--	--	--	--	--	--
SS-15	0 - 1	1/26/2018	173	<0.00115	<0.0115	<0.00575	<0.0230	<28.7	<28.7	<28.7	<28.7
	1 - 2	1/26/2018	79.9	--	--	--	--	--	--	--	--
	2 - 3	1/26/2018	96.3	--	--	--	--	--	--	--	--
	2 - 3	5/21/2018	3,120	--	--	--	--	--	--	--	--
	3 - 4	5/21/2018	4,640	--	--	--	--	--	--	--	--
	3 - 4	6/1/2018	19.5	--	--	--	--	--	--	--	--
SS-16	0 - 1	1/26/2018	3,480	<0.00111	<0.0111	<0.00556	<0.0222	<27.8	<27.8	<27.8	<27.8
	1 - 2	1/26/2018	366	--	--	--	--	--	--	--	--
	2 - 3	1/26/2018	392	--	--	--	--	--	--	--	--
	2 - 3	5/21/2018	2,820	--	--	--	--	--	--	--	--
	3 - 4	5/21/2018	4,390	--	--	--	--	--	--	--	--
	3 - 4	6/1/2018	81.3	--	--	--	--	--	--	--	--
SS-17	0 - 1	1/26/2018	981	<0.00114	<0.0114	<0.00568	<0.0227	<28.4	<28.4	<28.4	<28.4
	1 - 2	1/26/2018	182	--	--	--	--	--	--	--	--
	2 - 3	1/26/2018	96.6	--	--	--	--	--	--	--	--
	2 - 3	5/21/2018	3,790	--	--	--	--	--	--	--	--
	3 - 4	5/21/2018	4,550	--	--	--	--	--	--	--	--
	3 - 4	6/1/2018	42.1	--	--	--	--	--	--	--	--
SS-18	0 - 1	1/26/2018	2,090	<0.00120	<0.0120	<0.00602	<0.0241	<30.1	<30.1	<30.1	<30.1
	1 - 2	1/26/2018	2,350	--	--	--	--	--	--	--	--
	2 - 3	1/26/2018	479	--	--	--	--	--	--	--	--
	2 - 3	5/21/2018	4,080	--	--	--	--	--	--	--	--
	3 - 4	5/21/2018	4,790	--	--	--	--	--	--	--	--
	3 - 4	6/1/2018	86.5	--	--	--	--	--	--	--	--
SS-19	0 - 1	1/26/2018	76.8	<0.00147	<0.0147	<0.00735	<0.0294	<36.8	<36.8	<36.8	<36.8
	1 - 2	1/26/2018	60.6	--	--	--	--	--	--	--	--
	2 - 3	1/26/2018	307	--	--	--	--	--	--	--	--
	3 - 4	6/1/2018	14.8	--	--	--	--	--	--	--	--
	4 - 5	6/1/2018	35.7	--	--	--	--	--	--	--	--
SP-1	Pile	1/26/2018	16,100	<0.00109	<0.0109	<0.00543	<0.0217	<27.2	<27.2	<27.2	<27.2

Notes: Analysis performed by Permian Basin Environmental Lab, Midland, Texas
Samples analyzed via EPA method SW-8015M (TPH) and SW-300 (chloride).
Depth measurements are in feet below ground surface (bgs).
All concentrations are in milligrams per kilogram (mg/Kg) equivalent to parts per million (ppm).

FIGURES



© 2018 Google

Google Earth

feet
meters



100

600



Google Earth

APPENDIX A
Laboratory Reports

**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: Caza Forehand 27 State #4

Project Number: 18-0126

Location: NM

Lab Order Number: 8A29004



NELAP/TCEQ # T104704516-17-8

Report Date: 02/05/18

North Jetty Environmental Services
5004 Whitman Drive
Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-1 0-1	8A29004-01	Soil	01/26/18 10:00	01-29-2018 13:30
SS-1 1-2	8A29004-02	Soil	01/26/18 10:05	01-29-2018 13:30
SS-1 2-3	8A29004-03	Soil	01/26/18 10:10	01-29-2018 13:30
SS-2 0-1	8A29004-04	Soil	01/26/18 10:15	01-29-2018 13:30
SS-2 1-2	8A29004-05	Soil	01/26/18 10:20	01-29-2018 13:30
SS-2 2-3	8A29004-06	Soil	01/26/18 10:25	01-29-2018 13:30
SS-3 0-1	8A29004-07	Soil	01/26/18 10:30	01-29-2018 13:30
SS-3 1-2	8A29004-08	Soil	01/26/18 10:35	01-29-2018 13:30
SS-3 2-3	8A29004-09	Soil	01/26/18 10:40	01-29-2018 13:30
SS-4 0-1	8A29004-10	Soil	01/26/18 10:45	01-29-2018 13:30
SS-4 1-2	8A29004-11	Soil	01/26/18 10:50	01-29-2018 13:30
SS-4 2-3	8A29004-12	Soil	01/26/18 11:00	01-29-2018 13:30
SS-5 0-1	8A29004-13	Soil	01/26/18 11:05	01-29-2018 13:30
SS-5 1-2	8A29004-14	Soil	01/26/18 11:10	01-29-2018 13:30
SS-5 2-3	8A29004-15	Soil	01/26/18 11:15	01-29-2018 13:30
SS-6 0-1	8A29004-16	Soil	01/26/18 11:20	01-29-2018 13:30
SS-6 1-2	8A29004-17	Soil	01/26/18 11:25	01-29-2018 13:30
SS-6 2-3	8A29004-18	Soil	01/26/18 11:30	01-29-2018 13:30
SS-7 0-1	8A29004-19	Soil	01/26/18 11:35	01-29-2018 13:30
SS-7 1-2	8A29004-20	Soil	01/26/18 11:40	01-29-2018 13:30
SS-7 2-3	8A29004-21	Soil	01/26/18 11:45	01-29-2018 13:30
SS-8 0-1	8A29004-22	Soil	01/26/18 11:50	01-29-2018 13:30
SS-8 1-2	8A29004-23	Soil	01/26/18 11:55	01-29-2018 13:30
SS-8 2-3	8A29004-24	Soil	01/26/18 12:00	01-29-2018 13:30
SS-9 0-1	8A29004-25	Soil	01/26/18 12:05	01-29-2018 13:30
SS-9 1-2	8A29004-26	Soil	01/26/18 12:10	01-29-2018 13:30
SS-9 2-3	8A29004-27	Soil	01/26/18 12:15	01-29-2018 13:30
SS-10 0-1	8A29004-28	Soil	01/26/18 12:20	01-29-2018 13:30
SS-10 1-2	8A29004-29	Soil	01/26/18 12:25	01-29-2018 13:30
SS-10 2-3	8A29004-30	Soil	01/26/18 12:30	01-29-2018 13:30
SS-11 0-1	8A29004-31	Soil	01/26/18 13:30	01-29-2018 13:30
SS-11 1-2	8A29004-32	Soil	01/26/18 13:35	01-29-2018 13:30
SS-11 2-3	8A29004-33	Soil	01/26/18 13:40	01-29-2018 13:30
SS-12 0-1	8A29004-34	Soil	01/26/18 13:45	01-29-2018 13:30

North Jetty Environmental Services
5004 Whitman Drive
Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-12 1-2	8A29004-35	Soil	01/26/18 13:50	01-29-2018 13:30
SS-12 2-3	8A29004-36	Soil	01/26/18 13:55	01-29-2018 13:30
SS-13 0-1	8A29004-37	Soil	01/26/18 14:00	01-29-2018 13:30
SS-13 1-2	8A29004-38	Soil	01/26/18 14:05	01-29-2018 13:30
SS-13 2-3	8A29004-39	Soil	01/26/18 14:10	01-29-2018 13:30
SS-14 0-1	8A29004-40	Soil	01/26/18 14:15	01-29-2018 13:30
SS-14 1-2	8A29004-41	Soil	01/26/18 14:20	01-29-2018 13:30
SS-14 2-3	8A29004-42	Soil	01/26/18 14:25	01-29-2018 13:30
SS-15 0-1	8A29004-43	Soil	01/26/18 14:30	01-29-2018 13:30
SS-15 1-2	8A29004-44	Soil	01/26/18 14:35	01-29-2018 13:30
SS-15 2-3	8A29004-45	Soil	01/26/18 14:40	01-29-2018 13:30
SS-16 0-1	8A29004-46	Soil	01/26/18 14:45	01-29-2018 13:30
SS-16 1-2	8A29004-47	Soil	01/26/18 14:50	01-29-2018 13:30
SS-16 2-3	8A29004-48	Soil	01/26/18 14:55	01-29-2018 13:30
SS-17 0-1	8A29004-49	Soil	01/26/18 15:00	01-29-2018 13:30
SS-17 1-2	8A29004-50	Soil	01/26/18 15:05	01-29-2018 13:30
SS-17 2-3	8A29004-51	Soil	01/26/18 15:10	01-29-2018 13:30
SS-18 0-1	8A29004-52	Soil	01/26/18 15:15	01-29-2018 13:30
SS-18 1-2	8A29004-53	Soil	01/26/18 15:20	01-29-2018 13:30
SS-18 2-3	8A29004-54	Soil	01/26/18 15:25	01-29-2018 13:30
SS-19 0-1	8A29004-55	Soil	01/26/18 15:30	01-29-2018 13:30
SS-19 1-2	8A29004-56	Soil	01/26/18 15:35	01-29-2018 13:30
SS-19 2-3	8A29004-57	Soil	01/26/18 15:40	01-29-2018 13:30
SP-1	8A29004-58	Soil	01/26/18 12:45	01-29-2018 13:30

North Jetty Environmental Services
 5004 Whitman Drive
 Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
 Project Number: 18-0126
 Project Manager: Coty Woolf

Fax:

SS-1 0-1
8A29004-01 (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	0.00111	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Toluene	ND	0.0111	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Ethylbenzene	ND	0.00556	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Xylene (p/m)	ND	0.0222	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Xylene (o)	ND	0.0111	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		101 %	75-125		P8A3109	01/30/18	01/30/18	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		115 %	75-125		P8A3109	01/30/18	01/30/18	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	21400	55.6	mg/kg dry	50	P8A3006	01/30/18	01/30/18	EPA 300.0	
% Moisture	10.0	0.1	%	1	P8B0101	02/01/18	02/01/18	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.8	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		125 %	70-130		P8A3104	01/30/18	01/30/18	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		136 %	70-130		P8A3104	01/30/18	01/30/18	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	01/30/18	01/30/18	calc	

North Jetty Environmental Services
5004 Whitman Drive
Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-1 1-2
8A29004-02 (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	17900	56.2	mg/kg dry	50	P8A3006	01/30/18	01/30/18	EPA 300.0	
% Moisture	11.0	0.1	%	1	P8B0101	02/01/18	02/01/18	ASTM D2216	

North Jetty Environmental Services
5004 Whitman Drive
Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-1 2-3
8A29004-03 (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	17100	55.6	mg/kg dry	50	P8A3006	01/30/18	01/30/18	EPA 300.0	
% Moisture	10.0	0.1	%	1	P8B0101	02/01/18	02/01/18	ASTM D2216	

North Jetty Environmental Services
 5004 Whitman Drive
 Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
 Project Number: 18-0126
 Project Manager: Coty Woolf

Fax:

SS-2 0-1
8A29004-04 (Soil)

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

Organics by GC

Benzene	ND	0.00110	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Toluene	ND	0.0110	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Ethylbenzene	ND	0.00549	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Xylene (p/m)	ND	0.0220	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Xylene (o)	ND	0.0110	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		96.6 %	75-125		P8A3109	01/30/18	01/30/18	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		103 %	75-125		P8A3109	01/30/18	01/30/18	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	24100	54.9	mg/kg dry	50	P8A3006	01/30/18	01/30/18	EPA 300.0	
% Moisture	9.0	0.1	%	1	P8B0101	02/01/18	02/01/18	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.5	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		117 %	70-130		P8A3104	01/30/18	01/30/18	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		129 %	70-130		P8A3104	01/30/18	01/30/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	01/30/18	01/30/18	calc	

North Jetty Environmental Services
5004 Whitman Drive
Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-2 1-2
8A29004-05 (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	20100	56.2	mg/kg dry	50	P8A3006	01/30/18	01/30/18	EPA 300.0	
% Moisture	11.0	0.1	%	1	P8B0101	02/01/18	02/01/18	ASTM D2216	

North Jetty Environmental Services
5004 Whitman Drive
Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-2 2-3
8A29004-06 (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	18800	56.2	mg/kg dry	50	P8A3006	01/30/18	01/30/18	EPA 300.0	
% Moisture	11.0	0.1	%	1	P8B0101	02/01/18	02/01/18	ASTM D2216	

North Jetty Environmental Services
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Project: Caza Forehand 27 State #4
 Project Number: 18-0126
 Project Manager: Coty Woolf

Fax:

SS-3 0-1
8A29004-07 (Soil)

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

Organics by GC

Benzene	ND	0.00111	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Toluene	ND	0.0111	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Ethylbenzene	ND	0.00556	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Xylene (p/m)	ND	0.0222	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Xylene (o)	ND	0.0111	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		83.1 %		75-125	P8A3109	01/30/18	01/30/18	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		84.8 %		75-125	P8A3109	01/30/18	01/30/18	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	18300	55.6	mg/kg dry	50	P8A3006	01/30/18	01/30/18	EPA 300.0	
% Moisture	10.0	0.1	%	1	P8B0101	02/01/18	02/01/18	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.8	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		121 %		70-130	P8A3104	01/30/18	01/30/18	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		133 %		70-130	P8A3104	01/30/18	01/30/18	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	01/30/18	01/30/18	calc	

North Jetty Environmental Services
5004 Whitman Drive
Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-3 1-2
8A29004-08 (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	12600	55.6	mg/kg dry	50	P8A3006	01/30/18	01/30/18	EPA 300.0	
% Moisture	10.0	0.1	%	1	P8B0101	02/01/18	02/01/18	ASTM D2216	

North Jetty Environmental Services
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Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-3 2-3
8A29004-09 (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	8190	53.8	mg/kg dry	50	P8A3006	01/30/18	01/30/18	EPA 300.0	
% Moisture	7.0	0.1	%	1	P8B0101	02/01/18	02/01/18	ASTM D2216	

North Jetty Environmental Services
 5004 Whitman Drive
 Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
 Project Number: 18-0126
 Project Manager: Coty Woolf

Fax:

SS-4 0-1
8A29004-10 (Soil)

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

Organics by GC

Benzene	ND	0.00109	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Toluene	ND	0.0109	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Ethylbenzene	ND	0.00543	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Xylene (p/m)	ND	0.0217	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Xylene (o)	ND	0.0109	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		78.8 %		75-125	P8A3109	01/30/18	01/30/18	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		87.4 %		75-125	P8A3109	01/30/18	01/30/18	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	1510	10.9	mg/kg dry	10	P8A3006	01/30/18	01/31/18	EPA 300.0	
% Moisture	8.0	0.1	%	1	P8B0101	02/01/18	02/01/18	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.2	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		105 %		70-130	P8A3104	01/30/18	01/30/18	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		116 %		70-130	P8A3104	01/30/18	01/30/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	01/30/18	01/30/18	calc	

North Jetty Environmental Services
5004 Whitman Drive
Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-4 1-2
8A29004-11 (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	476	10.8	mg/kg dry	10	P8A3006	01/30/18	01/31/18	EPA 300.0	
% Moisture	7.0	0.1	%	1	P8B0101	02/01/18	02/01/18	ASTM D2216	

North Jetty Environmental Services
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Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-4 2-3
8A29004-12 (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	532	10.8	mg/kg dry	10	P8A3006	01/30/18	01/31/18	EPA 300.0	
% Moisture	7.0	0.1	%	1	P8B0101	02/01/18	02/01/18	ASTM D2216	

North Jetty Environmental Services
 5004 Whitman Drive
 Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
 Project Number: 18-0126
 Project Manager: Coty Woolf

Fax:

SS-5 0-1
8A29004-13 (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	0.00112	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Toluene	ND	0.0112	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Ethylbenzene	ND	0.00562	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Xylene (p/m)	ND	0.0225	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Xylene (o)	ND	0.0112	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		89.8 %		75-125	P8A3109	01/30/18	01/30/18	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		104 %		75-125	P8A3109	01/30/18	01/30/18	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	2810	11.2	mg/kg dry	10	P8A3006	01/30/18	01/31/18	EPA 300.0	
% Moisture	11.0	0.1	%	1	P8B0101	02/01/18	02/01/18	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.1	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
>C12-C28	ND	28.1	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
>C28-C35	ND	28.1	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		112 %		70-130	P8A3104	01/30/18	01/30/18	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		122 %		70-130	P8A3104	01/30/18	01/30/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.1	mg/kg dry	1	[CALC]	01/30/18	01/30/18	calc	

North Jetty Environmental Services
5004 Whitman Drive
Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-5 1-2
8A29004-14 (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	1480	11.2	mg/kg dry	10	P8A3006	01/30/18	01/31/18	EPA 300.0	
% Moisture	11.0	0.1	%	1	P8B0101	02/01/18	02/01/18	ASTM D2216	

North Jetty Environmental Services
5004 Whitman Drive
Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-5 2-3
8A29004-15 (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	465	27.2	mg/kg dry	25	P8A3006	01/30/18	01/31/18	EPA 300.0	
% Moisture	8.0	0.1	%	1	P8B0101	02/01/18	02/01/18	ASTM D2216	

North Jetty Environmental Services
 5004 Whitman Drive
 Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
 Project Number: 18-0126
 Project Manager: Coty Woolf

Fax:

SS-6 0-1
8A29004-16 (Soil)

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

Organics by GC

Benzene	ND	0.00112	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Toluene	ND	0.0112	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Ethylbenzene	ND	0.00562	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Xylene (p/m)	ND	0.0225	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Xylene (o)	ND	0.0112	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		86.8 %	75-125		P8A3109	01/30/18	01/30/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		92.2 %	75-125		P8A3109	01/30/18	01/30/18	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	29600	56.2	mg/kg dry	50	P8A3006	01/30/18	01/31/18	EPA 300.0	
% Moisture	11.0	0.1	%	1	P8B0101	02/01/18	02/01/18	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.1	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
>C12-C28	ND	28.1	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
>C28-C35	ND	28.1	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
Surrogate: 1-Chlorooctane		110 %	70-130		P8A3104	01/30/18	01/30/18	TPH 8015M	
Surrogate: o-Terphenyl		124 %	70-130		P8A3104	01/30/18	01/30/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.1	mg/kg dry	1	[CALC]	01/30/18	01/30/18	calc	

North Jetty Environmental Services
5004 Whitman Drive
Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-6 1-2
8A29004-17 (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	15400	56.2	mg/kg dry	50	P8A3006	01/30/18	01/31/18	EPA 300.0	
% Moisture	11.0	0.1	%	1	P8B0101	02/01/18	02/01/18	ASTM D2216	

North Jetty Environmental Services
5004 Whitman Drive
Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-6 2-3
8A29004-18 (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	7920	54.9	mg/kg dry	50	P8A3006	01/30/18	01/31/18	EPA 300.0	
% Moisture	9.0	0.1	%	1	P8B0101	02/01/18	02/01/18	ASTM D2216	

North Jetty Environmental Services
 5004 Whitman Drive
 Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
 Project Number: 18-0126
 Project Manager: Coty Woolf

Fax:

SS-7 0-1
8A29004-19 (Soil)

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

Organics by GC

Benzene	ND	0.00111	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Toluene	ND	0.0111	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Ethylbenzene	ND	0.00556	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Xylene (p/m)	ND	0.0222	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Xylene (o)	ND	0.0111	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		84.3 %	75-125		P8A3109	01/30/18	01/30/18	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		80.5 %	75-125		P8A3109	01/30/18	01/30/18	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	17300	55.6	mg/kg dry	50	P8A3006	01/30/18	01/31/18	EPA 300.0	
% Moisture	10.0	0.1	%	1	P8B0101	02/01/18	02/01/18	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.8	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		110 %	70-130		P8A3104	01/30/18	01/30/18	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		123 %	70-130		P8A3104	01/30/18	01/30/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	01/30/18	01/30/18	calc	

North Jetty Environmental Services
5004 Whitman Drive
Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-7 1-2
8A29004-20 (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	11500	54.3	mg/kg dry	50	P8A3113	01/31/18	02/01/18	EPA 300.0	
% Moisture	8.0	0.1	%	1	P8B0101	02/01/18	02/01/18	ASTM D2216	

North Jetty Environmental Services
5004 Whitman Drive
Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-7 2-3
8A29004-21 (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	10800	27.8	mg/kg dry	25	P8A3113	01/31/18	02/01/18	EPA 300.0	
% Moisture	10.0	0.1	%	1	P8B0101	02/01/18	02/01/18	ASTM D2216	

North Jetty Environmental Services
 5004 Whitman Drive
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Project: Caza Forehand 27 State #4
 Project Number: 18-0126
 Project Manager: Coty Woolf

Fax:

SS-8 0-1
8A29004-22 (Soil)

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

Organics by GC

Benzene	ND	0.00109	mg/kg dry	1	P8A3109	01/30/18	01/31/18	EPA 8021B	
Toluene	ND	0.0109	mg/kg dry	1	P8A3109	01/30/18	01/31/18	EPA 8021B	
Ethylbenzene	ND	0.00543	mg/kg dry	1	P8A3109	01/30/18	01/31/18	EPA 8021B	
Xylene (p/m)	ND	0.0217	mg/kg dry	1	P8A3109	01/30/18	01/31/18	EPA 8021B	
Xylene (o)	ND	0.0109	mg/kg dry	1	P8A3109	01/30/18	01/31/18	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		83.1 %		75-125	P8A3109	01/30/18	01/31/18	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		88.9 %		75-125	P8A3109	01/30/18	01/31/18	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	15500	54.3	mg/kg dry	50	P8A3113	01/31/18	02/01/18	EPA 300.0	
% Moisture	8.0	0.1	%	1	P8B0101	02/01/18	02/01/18	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.2	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		108 %		70-130	P8A3104	01/30/18	01/30/18	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		121 %		70-130	P8A3104	01/30/18	01/30/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	01/30/18	01/30/18	calc	

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Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-8 1-2
8A29004-23 (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	10400	27.5	mg/kg dry	25	P8A3113	01/31/18	02/01/18	EPA 300.0	
% Moisture	9.0	0.1	%	1	P8B0101	02/01/18	02/01/18	ASTM D2216	

North Jetty Environmental Services
5004 Whitman Drive
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Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-8 2-3
8A29004-24 (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	6760	27.5	mg/kg dry	25	P8A3113	01/31/18	02/01/18	EPA 300.0	
% Moisture	9.0	0.1	%	1	P8B0101	02/01/18	02/01/18	ASTM D2216	

North Jetty Environmental Services
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Project: Caza Forehand 27 State #4
 Project Number: 18-0126
 Project Manager: Coty Woolf

Fax:

SS-9 0-1
8A29004-25 (Soil)

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

Organics by GC

Benzene	ND	0.00114	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Toluene	ND	0.0114	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Ethylbenzene	ND	0.00568	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Xylene (p/m)	ND	0.0227	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Xylene (o)	ND	0.0114	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		105 %	75-125		P8A3109	01/30/18	01/30/18	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		80.8 %	75-125		P8A3109	01/30/18	01/30/18	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	22100	56.8	mg/kg dry	50	P8A3113	01/31/18	02/01/18	EPA 300.0	
% Moisture	12.0	0.1	%	1	P8B0101	02/01/18	02/01/18	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.4	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
>C12-C28	ND	28.4	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
>C28-C35	ND	28.4	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		110 %	70-130		P8A3104	01/30/18	01/30/18	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		122 %	70-130		P8A3104	01/30/18	01/30/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.4	mg/kg dry	1	[CALC]	01/30/18	01/30/18	calc	

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5004 Whitman Drive
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Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-9 1-2
8A29004-26 (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	9800	28.4	mg/kg dry	25	P8A3113	01/31/18	02/01/18	EPA 300.0	
% Moisture	12.0	0.1	%	1	P8B0101	02/01/18	02/01/18	ASTM D2216	

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Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-9 2-3
8A29004-27 (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	9440	28.4	mg/kg dry	25	P8A3113	01/31/18	02/01/18	EPA 300.0	
% Moisture	12.0	0.1	%	1	P8B0101	02/01/18	02/01/18	ASTM D2216	

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Project: Caza Forehand 27 State #4
 Project Number: 18-0126
 Project Manager: Coty Woolf

Fax:

SS-10 0-1
8A29004-28 (Soil)

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

Organics by GC

Benzene	ND	0.00116	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Toluene	ND	0.0116	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Ethylbenzene	ND	0.00581	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Xylene (p/m)	ND	0.0233	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Xylene (o)	ND	0.0116	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		82.6 %		75-125	P8A3109	01/30/18	01/30/18	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		112 %		75-125	P8A3109	01/30/18	01/30/18	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	16700	58.1	mg/kg dry	50	P8A3113	01/31/18	02/01/18	EPA 300.0	
% Moisture	14.0	0.1	%	1	P8B0101	02/01/18	02/01/18	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	29.1	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
>C12-C28	ND	29.1	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
>C28-C35	ND	29.1	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		112 %		70-130	P8A3104	01/30/18	01/30/18	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		126 %		70-130	P8A3104	01/30/18	01/30/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	29.1	mg/kg dry	1	[CALC]	01/30/18	01/30/18	calc	

North Jetty Environmental Services
5004 Whitman Drive
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Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-10 1-2
8A29004-29 (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	6240	28.7	mg/kg dry	25	P8A3113	01/31/18	02/01/18	EPA 300.0	
% Moisture	13.0	0.1	%	1	P8B0101	02/01/18	02/01/18	ASTM D2216	

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Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-10 2-3
8A29004-30 (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	6400	28.7	mg/kg dry	25	P8A3113	01/31/18	02/01/18	EPA 300.0	
% Moisture	13.0	0.1	%	1	P8B0101	02/01/18	02/01/18	ASTM D2216	

North Jetty Environmental Services
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 Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
 Project Number: 18-0126
 Project Manager: Coty Woolf

Fax:

SS-11 0-1
8A29004-31 (Soil)

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

Organics by GC

Benzene	ND	0.00114	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Toluene	ND	0.0114	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Ethylbenzene	ND	0.00568	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Xylene (p/m)	ND	0.0227	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Xylene (o)	ND	0.0114	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		131 %	75-125		P8A3109	01/30/18	01/30/18	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene		86.9 %	75-125		P8A3109	01/30/18	01/30/18	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	9760	56.8	mg/kg dry	50	P8A3113	01/31/18	02/01/18	EPA 300.0	
% Moisture	12.0	0.1	%	1	P8B0101	02/01/18	02/01/18	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.4	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
>C12-C28	ND	28.4	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
>C28-C35	ND	28.4	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
Surrogate: 1-Chlorooctane		112 %	70-130		P8A3104	01/30/18	01/30/18	TPH 8015M	
Surrogate: o-Terphenyl		124 %	70-130		P8A3104	01/30/18	01/30/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.4	mg/kg dry	1	[CALC]	01/30/18	01/30/18	calc	

North Jetty Environmental Services
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Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-11 1-2
8A29004-32 (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	1450	27.5	mg/kg dry	25	P8A3113	01/31/18	02/01/18	EPA 300.0	
% Moisture	9.0	0.1	%	1	P8B0101	02/01/18	02/01/18	ASTM D2216	

North Jetty Environmental Services
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Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-11 2-3
8A29004-33 (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	396	1.08	mg/kg dry	1	P8A3113	01/31/18	02/01/18	EPA 300.0	
% Moisture	7.0	0.1	%	1	P8B0101	02/01/18	02/01/18	ASTM D2216	

North Jetty Environmental Services
5004 Whitman Drive
Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-12 0-1
8A29004-34 (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	P8A3109	01/30/18	01/30/18	EPA 8021B	
Toluene	ND	0.0110	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Ethylbenzene	ND	0.00549	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Xylene (p/m)	ND	0.0220	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Xylene (o)	ND	0.0110	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		90.2 %	75-125		P8A3109	01/30/18	01/30/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		131 %	75-125		P8A3109	01/30/18	01/30/18	EPA 8021B	S-GC

General Chemistry Parameters by EPA / Standard Methods

Chloride	1920	27.5	mg/kg dry	25	P8A3113	01/31/18	02/01/18	EPA 300.0	
% Moisture	9.0	0.1	%	1	P8B0101	02/01/18	02/01/18	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.5	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
>C12-C28	60.5	27.5	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
Surrogate: 1-Chlorooctane		115 %	70-130		P8A3104	01/30/18	01/30/18	TPH 8015M	
Surrogate: o-Terphenyl		129 %	70-130		P8A3104	01/30/18	01/30/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	60.5	27.5	mg/kg dry	1	[CALC]	01/30/18	01/30/18	calc	

North Jetty Environmental Services
5004 Whitman Drive
Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-12 1-2
8A29004-35 (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	639	30.1	mg/kg dry	25	P8A3113	01/31/18	02/01/18	EPA 300.0	
% Moisture	17.0	0.1	%	1	P8B0101	02/01/18	02/01/18	ASTM D2216	

North Jetty Environmental Services
5004 Whitman Drive
Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-12 2-3
8A29004-36 (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	212	1.11	mg/kg dry	1	P8A3113	01/31/18	02/01/18	EPA 300.0	
% Moisture	10.0	0.1	%	1	P8B0101	02/01/18	02/01/18	ASTM D2216	

North Jetty Environmental Services
 5004 Whitman Drive
 Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
 Project Number: 18-0126
 Project Manager: Coty Woolf

Fax:

SS-13 0-1
8A29004-37 (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	0.00122	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Toluene	ND	0.0122	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Ethylbenzene	ND	0.00610	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Xylene (p/m)	ND	0.0244	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Xylene (o)	ND	0.0122	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		87.3 %	75-125		P8A3109	01/30/18	01/30/18	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		127 %	75-125		P8A3109	01/30/18	01/30/18	EPA 8021B	S-GC

General Chemistry Parameters by EPA / Standard Methods

Chloride	4630	61.0	mg/kg dry	50	P8A3113	01/31/18	02/01/18	EPA 300.0	
% Moisture	18.0	0.1	%	1	P8B0101	02/01/18	02/01/18	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	30.5	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
>C12-C28	ND	30.5	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
>C28-C35	ND	30.5	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		118 %	70-130		P8A3104	01/30/18	01/30/18	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		128 %	70-130		P8A3104	01/30/18	01/30/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	30.5	mg/kg dry	1	[CALC]	01/30/18	01/30/18	calc	

North Jetty Environmental Services
5004 Whitman Drive
Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-13 1-2
8A29004-38 (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	669	29.8	mg/kg dry	25	P8A3113	01/31/18	02/01/18	EPA 300.0	
% Moisture	16.0	0.1	%	1	P8B0101	02/01/18	02/01/18	ASTM D2216	

North Jetty Environmental Services
5004 Whitman Drive
Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-13 2-3
8A29004-39 (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	280	1.18	mg/kg dry	1	P8A3113	01/31/18	02/01/18	EPA 300.0	
% Moisture	15.0	0.1	%	1	P8B0101	02/01/18	02/01/18	ASTM D2216	

North Jetty Environmental Services
 5004 Whitman Drive
 Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
 Project Number: 18-0126
 Project Manager: Coty Woolf

Fax:

SS-14 0-1
8A29004-40 (Soil)

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

Organics by GC

Benzene	ND	0.00116	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Toluene	ND	0.0116	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Ethylbenzene	ND	0.00581	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Xylene (p/m)	ND	0.0233	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Xylene (o)	ND	0.0116	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		128 %	75-125		P8A3109	01/30/18	01/30/18	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene		104 %	75-125		P8A3109	01/30/18	01/30/18	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	1150	29.1	mg/kg dry	25	P8B0106	02/01/18	02/03/18	EPA 300.0	
% Moisture	14.0	0.1	%	1	P8B0101	02/01/18	02/01/18	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	29.1	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
>C12-C28	ND	29.1	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
>C28-C35	ND	29.1	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
Surrogate: 1-Chlorooctane		111 %	70-130		P8A3104	01/30/18	01/30/18	TPH 8015M	
Surrogate: o-Terphenyl		118 %	70-130		P8A3104	01/30/18	01/30/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	29.1	mg/kg dry	1	[CALC]	01/30/18	01/30/18	calc	

North Jetty Environmental Services
5004 Whitman Drive
Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-14 1-2
8A29004-41 (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	150	1.10	mg/kg dry	1	P8B0106	02/01/18	02/03/18	EPA 300.0	
% Moisture	9.0	0.1	%	1	P8B0101	02/01/18	02/01/18	ASTM D2216	

North Jetty Environmental Services
5004 Whitman Drive
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Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-14 2-3
8A29004-42 (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	141	1.09	mg/kg dry	1	P8B0106	02/01/18	02/03/18	EPA 300.0	
% Moisture	8.0	0.1	%	1	P8B0101	02/01/18	02/01/18	ASTM D2216	

North Jetty Environmental Services
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Project: Caza Forehand 27 State #4
 Project Number: 18-0126
 Project Manager: Coty Woolf

Fax:

SS-15 0-1
8A29004-43 (Soil)

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

Organics by GC

Benzene	ND	0.00115	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Toluene	ND	0.0115	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Ethylbenzene	ND	0.00575	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Xylene (p/m)	ND	0.0230	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Xylene (o)	ND	0.0115	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		85.2 %		75-125	P8A3109	01/30/18	01/30/18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		122 %		75-125	P8A3109	01/30/18	01/30/18	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	173	1.15	mg/kg dry	1	P8B0106	02/01/18	02/03/18	EPA 300.0	
% Moisture	13.0	0.1	%	1	P8B0101	02/01/18	02/01/18	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.7	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
>C12-C28	ND	28.7	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
>C28-C35	ND	28.7	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
Surrogate: 1-Chlorooctane		103 %		70-130	P8A3104	01/30/18	01/30/18	TPH 8015M	
Surrogate: o-Terphenyl		112 %		70-130	P8A3104	01/30/18	01/30/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.7	mg/kg dry	1	[CALC]	01/30/18	01/30/18	calc	

North Jetty Environmental Services
5004 Whitman Drive
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Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-15 1-2
8A29004-44 (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	79.9	5.95	mg/kg dry	5	P8B0106	02/01/18	02/03/18	EPA 300.0	
% Moisture	16.0	0.1	%	1	P8B0101	02/01/18	02/01/18	ASTM D2216	

North Jetty Environmental Services
5004 Whitman Drive
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Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-15 2-3
8A29004-45 (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	96.3	5.68	mg/kg dry	5	P8B0106	02/01/18	02/03/18	EPA 300.0	
% Moisture	12.0	0.1	%	1	P8B0101	02/01/18	02/01/18	ASTM D2216	

North Jetty Environmental Services
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Project: Caza Forehand 27 State #4
 Project Number: 18-0126
 Project Manager: Coty Woolf

Fax:

SS-16 0-1
8A29004-46 (Soil)

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

Organics by GC

Benzene	ND	0.00111	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Toluene	ND	0.0111	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Ethylbenzene	ND	0.00556	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Xylene (p/m)	ND	0.0222	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Xylene (o)	ND	0.0111	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		124 %	75-125		P8A3109	01/30/18	01/30/18	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		89.3 %	75-125		P8A3109	01/30/18	01/30/18	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	3480	27.8	mg/kg dry	25	P8B0106	02/01/18	02/03/18	EPA 300.0	
% Moisture	10.0	0.1	%	1	P8B0101	02/01/18	02/01/18	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.8	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		115 %	70-130		P8A3104	01/30/18	01/30/18	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		125 %	70-130		P8A3104	01/30/18	01/30/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	01/30/18	01/30/18	calc	

North Jetty Environmental Services
5004 Whitman Drive
Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-16 1-2
8A29004-47 (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	366	1.09	mg/kg dry	1	P8B0106	02/01/18	02/03/18	EPA 300.0	
% Moisture	8.0	0.1	%	1	P8B0101	02/01/18	02/01/18	ASTM D2216	

North Jetty Environmental Services
5004 Whitman Drive
Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-16 2-3
8A29004-48 (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	392	1.18	mg/kg dry	1	P8B0106	02/01/18	02/03/18	EPA 300.0	
% Moisture	15.0	0.1	%	1	P8B0101	02/01/18	02/01/18	ASTM D2216	

North Jetty Environmental Services
 5004 Whitman Drive
 Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
 Project Number: 18-0126
 Project Manager: Coty Woolf

Fax:

SS-17 0-1
8A29004-49 (Soil)

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

Organics by GC

Benzene	ND	0.00114	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Toluene	ND	0.0114	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Ethylbenzene	ND	0.00568	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Xylene (p/m)	ND	0.0227	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
Xylene (o)	ND	0.0114	mg/kg dry	1	P8A3109	01/30/18	01/30/18	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		85.2 %		75-125	P8A3109	01/30/18	01/30/18	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		125 %		75-125	P8A3109	01/30/18	01/30/18	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	981	28.4	mg/kg dry	25	P8B0106	02/01/18	02/03/18	EPA 300.0	
% Moisture	12.0	0.1	%	1	P8B0101	02/01/18	02/01/18	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.4	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
>C12-C28	ND	28.4	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
>C28-C35	ND	28.4	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		110 %		70-130	P8A3104	01/30/18	01/30/18	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		120 %		70-130	P8A3104	01/30/18	01/30/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.4	mg/kg dry	1	[CALC]	01/30/18	01/30/18	calc	

North Jetty Environmental Services
5004 Whitman Drive
Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-17 1-2
8A29004-50 (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	182	1.33	mg/kg dry	1	P8B0106	02/01/18	02/03/18	EPA 300.0	
% Moisture	25.0	0.1	%	1	P8B0101	02/01/18	02/01/18	ASTM D2216	

North Jetty Environmental Services
5004 Whitman Drive
Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-17 2-3
8A29004-51 (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	96.6	1.41	mg/kg dry	1	P8B0106	02/01/18	02/03/18	EPA 300.0	
% Moisture	29.0	0.1	%	1	P8B0101	02/01/18	02/01/18	ASTM D2216	

North Jetty Environmental Services
 5004 Whitman Drive
 Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
 Project Number: 18-0126
 Project Manager: Coty Woolf

Fax:

SS-18 0-1
8A29004-52 (Soil)

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

Organics by GC

Benzene	ND	0.00120	mg/kg dry	1	P8A3105	01/30/18	01/30/18	EPA 8021B	
Toluene	ND	0.0120	mg/kg dry	1	P8A3105	01/30/18	01/30/18	EPA 8021B	
Ethylbenzene	ND	0.00602	mg/kg dry	1	P8A3105	01/30/18	01/30/18	EPA 8021B	
Xylene (p/m)	ND	0.0241	mg/kg dry	1	P8A3105	01/30/18	01/30/18	EPA 8021B	
Xylene (o)	ND	0.0120	mg/kg dry	1	P8A3105	01/30/18	01/30/18	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		129 %	75-125		P8A3105	01/30/18	01/30/18	EPA 8021B	S-GC
<i>Surrogate: 1,4-Difluorobenzene</i>		91.9 %	75-125		P8A3105	01/30/18	01/30/18	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	2090	30.1	mg/kg dry	25	P8B0106	02/01/18	02/03/18	EPA 300.0	
% Moisture	17.0	0.1	%	1	P8B0101	02/01/18	02/01/18	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	30.1	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
>C12-C28	ND	30.1	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
>C28-C35	ND	30.1	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		119 %	70-130		P8A3104	01/30/18	01/30/18	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		130 %	70-130		P8A3104	01/30/18	01/30/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	30.1	mg/kg dry	1	[CALC]	01/30/18	01/30/18	calc	

North Jetty Environmental Services
5004 Whitman Drive
Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-18 1-2
8A29004-53 (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	2350	28.7	mg/kg dry	25	P8B0106	02/01/18	02/03/18	EPA 300.0	
% Moisture	13.0	0.1	%	1	P8B0101	02/01/18	02/01/18	ASTM D2216	

North Jetty Environmental Services
5004 Whitman Drive
Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-18 2-3
8A29004-54 (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	479	1.39	mg/kg dry	1	P8B0106	02/01/18	02/03/18	EPA 300.0	
% Moisture	28.0	0.1	%	1	P8B0101	02/01/18	02/01/18	ASTM D2216	

North Jetty Environmental Services
 5004 Whitman Drive
 Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
 Project Number: 18-0126
 Project Manager: Coty Woolf

Fax:

SS-19 0-1
8A29004-55 (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	0.00147	mg/kg dry	1	P8A3105	01/30/18	01/30/18	EPA 8021B	
Toluene	ND	0.0147	mg/kg dry	1	P8A3105	01/30/18	01/30/18	EPA 8021B	
Ethylbenzene	ND	0.00735	mg/kg dry	1	P8A3105	01/30/18	01/30/18	EPA 8021B	
Xylene (p/m)	ND	0.0294	mg/kg dry	1	P8A3105	01/30/18	01/30/18	EPA 8021B	
Xylene (o)	ND	0.0147	mg/kg dry	1	P8A3105	01/30/18	01/30/18	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		83.6 %		75-125	P8A3105	01/30/18	01/30/18	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		110 %		75-125	P8A3105	01/30/18	01/30/18	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	76.8	1.47	mg/kg dry	1	P8B0106	02/01/18	02/03/18	EPA 300.0	
% Moisture	32.0	0.1	%	1	P8B0101	02/01/18	02/01/18	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	36.8	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
>C12-C28	ND	36.8	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
>C28-C35	ND	36.8	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		117 %		70-130	P8A3104	01/30/18	01/30/18	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		130 %		70-130	P8A3104	01/30/18	01/30/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	36.8	mg/kg dry	1	[CALC]	01/30/18	01/30/18	calc	

North Jetty Environmental Services
5004 Whitman Drive
Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-19 1-2
8A29004-56 (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	60.6	1.45	mg/kg dry	1	P8B0106	02/01/18	02/03/18	EPA 300.0	
% Moisture	31.0	0.1	%	1	P8B0101	02/01/18	02/01/18	ASTM D2216	

North Jetty Environmental Services
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Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-19 2-3
8A29004-57 (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	307	1.22	mg/kg dry	1	P8B0106	02/01/18	02/03/18	EPA 300.0	
% Moisture	18.0	0.1	%	1	P8B0101	02/01/18	02/01/18	ASTM D2216	

North Jetty Environmental Services
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 Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
 Project Number: 18-0126
 Project Manager: Coty Woolf

Fax:

SP-1
8A29004-58 (Soil)

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

Organics by GC

Benzene	ND	0.00109	mg/kg dry	1	P8A3105	01/30/18	01/30/18	EPA 8021B	
Toluene	ND	0.0109	mg/kg dry	1	P8A3105	01/30/18	01/30/18	EPA 8021B	
Ethylbenzene	ND	0.00543	mg/kg dry	1	P8A3105	01/30/18	01/30/18	EPA 8021B	
Xylene (p/m)	ND	0.0217	mg/kg dry	1	P8A3105	01/30/18	01/30/18	EPA 8021B	
Xylene (o)	ND	0.0109	mg/kg dry	1	P8A3105	01/30/18	01/30/18	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		88.7 %		75-125	P8A3105	01/30/18	01/30/18	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		114 %		75-125	P8A3105	01/30/18	01/30/18	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	16100	54.3	mg/kg dry	50	P8B0106	02/01/18	02/03/18	EPA 300.0	
% Moisture	8.0	0.1	%	1	P8B0101	02/01/18	02/01/18	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.2	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P8A3104	01/30/18	01/30/18	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		116 %		70-130	P8A3104	01/30/18	01/30/18	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		129 %		70-130	P8A3104	01/30/18	01/30/18	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	01/30/18	01/30/18	calc	

North Jetty Environmental Services
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Project: Caza Forehand 27 State #4
 Project Number: 18-0126
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Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P8A3105 - General Preparation (GC)

Blank (P8A3105-BLK1)										
										Prepared & Analyzed: 01/30/18
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.0100	"							
Ethylbenzene	ND	0.00500	"							
Xylene (p/m)	ND	0.0200	"							
Xylene (o)	ND	0.0100	"							
<i>Surrogate: 1,4-Difluorobenzene</i>	<i>0.0462</i>		<i>"</i>	<i>0.0600</i>		<i>77.0</i>	<i>75-125</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0607</i>		<i>"</i>	<i>0.0600</i>		<i>101</i>	<i>75-125</i>			

LCS (P8A3105-BS1)										
										Prepared & Analyzed: 01/30/18
Benzene	0.111	0.00100	mg/kg wet	0.100		111	70-130			
Toluene	0.120	0.0100	"	0.100		120	70-130			
Ethylbenzene	0.117	0.00500	"	0.100		117	70-130			
Xylene (p/m)	0.219	0.0200	"				70-130			
Xylene (o)	0.118	0.0100	"				70-130			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0800</i>		<i>"</i>	<i>0.0600</i>		<i>133</i>	<i>75-125</i>			<i>S-GC</i>
<i>Surrogate: 1,4-Difluorobenzene</i>	<i>0.0645</i>		<i>"</i>	<i>0.0600</i>		<i>107</i>	<i>75-125</i>			

LCS Dup (P8A3105-BSD1)										
										Prepared & Analyzed: 01/30/18
Benzene	0.103	0.00100	mg/kg wet	0.100		103	70-130	7.49	20	
Toluene	0.110	0.0100	"	0.100		110	70-130	8.65	20	
Ethylbenzene	0.113	0.00500	"	0.100		113	70-130	3.49	20	
Xylene (p/m)	0.217	0.0200	"				70-130		20	
Xylene (o)	0.116	0.0100	"				70-130		20	
<i>Surrogate: 1,4-Difluorobenzene</i>	<i>0.0581</i>		<i>"</i>	<i>0.0600</i>		<i>96.8</i>	<i>75-125</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0715</i>		<i>"</i>	<i>0.0600</i>		<i>119</i>	<i>75-125</i>			

Matrix Spike (P8A3105-MS1)										
			Source: 8A29004-58			Prepared: 01/30/18	Analyzed: 01/31/18			
Benzene	0.0877	0.00109	mg/kg dry	0.109	ND	80.7	80-120			
Toluene	0.0911	0.0109	"	0.109	ND	83.8	80-120			
Ethylbenzene	0.0985	0.00543	"	0.109	ND	90.6	80-120			
Xylene (p/m)	0.211	0.0217	"		ND		80-120			
Xylene (o)	0.0913	0.0109	"		ND		80-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.111</i>		<i>"</i>	<i>0.0652</i>		<i>170</i>	<i>75-125</i>			<i>S-GC</i>
<i>Surrogate: 1,4-Difluorobenzene</i>	<i>0.0658</i>		<i>"</i>	<i>0.0652</i>		<i>101</i>	<i>75-125</i>			

North Jetty Environmental Services
 5004 Whitman Drive
 Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
 Project Number: 18-0126
 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 P8A3105 - General Preparation (GC)

Matrix Spike Dup (P8A3105-MSD1)

Source: 8A29004-58

Prepared: 01/30/18 Analyzed: 01/31/18

Benzene	0.0929	0.00109	mg/kg dry	0.109	ND	85.5	80-120	5.76	20	
Toluene	0.124	0.0109	"	0.109	ND	114	80-120	30.5	20	QM-05
Ethylbenzene	0.0893	0.00543	"	0.109	ND	82.2	80-120	9.76	20	
Xylene (p/m)	0.189	0.0217	"		ND		80-120		20	
Xylene (o)	0.0941	0.0109	"		ND		80-120		20	
Surrogate: 4-Bromofluorobenzene	0.0729		"	0.0652		112	75-125			
Surrogate: 1,4-Difluorobenzene	0.0685		"	0.0652		105	75-125			

Batch P8A3109 - General Preparation (GC)

Blank (P8A3109-BLK1)

Prepared & Analyzed: 01/30/18

Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.0100	"							
Ethylbenzene	ND	0.00500	"							
Xylene (p/m)	ND	0.0200	"							
Xylene (o)	ND	0.0100	"							
Surrogate: 4-Bromofluorobenzene	0.0591		"	0.0600		98.6	75-125			
Surrogate: 1,4-Difluorobenzene	0.0517		"	0.0600		86.2	75-125			

LCS (P8A3109-BS1)

Prepared & Analyzed: 01/30/18

Benzene	0.108	0.00100	mg/kg wet	0.100		108	70-130			
Toluene	0.116	0.0100	"	0.100		116	70-130			
Ethylbenzene	0.110	0.00500	"	0.100		110	70-130			
Xylene (p/m)	0.218	0.0200	"				70-130			
Xylene (o)	0.119	0.0100	"				70-130			
Surrogate: 4-Bromofluorobenzene	0.0672		"	0.0600		112	75-125			
Surrogate: 1,4-Difluorobenzene	0.0630		"	0.0600		105	75-125			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P8A3109 - General Preparation (GC)

LCS Dup (P8A3109-BSD1)

Prepared & Analyzed: 01/30/18

Benzene	0.106	0.00100	mg/kg wet	0.100		106	70-130	1.82	20	
Toluene	0.115	0.0100	"	0.100		115	70-130	1.24	20	
Ethylbenzene	0.115	0.00500	"	0.100		115	70-130	4.44	20	
Xylene (p/m)	0.208	0.0200	"				70-130		20	
Xylene (o)	0.119	0.0100	"				70-130		20	
Surrogate: 4-Bromofluorobenzene	0.0684		"	0.0600		114	75-125			
Surrogate: 1,4-Difluorobenzene	0.0586		"	0.0600		97.7	75-125			

Matrix Spike (P8A3109-MS1)

Source: 8A29004-49

Prepared & Analyzed: 01/30/18

Benzene	0.101	0.00114	mg/kg dry	0.114	ND	88.9	80-120			
Toluene	0.109	0.0114	"	0.114	ND	95.9	80-120			
Ethylbenzene	0.136	0.00568	"	0.114	ND	120	80-120			
Xylene (p/m)	0.238	0.0227	"		ND		80-120			
Xylene (o)	0.118	0.0114	"		ND		80-120			
Surrogate: 1,4-Difluorobenzene	0.0786		"	0.0682		115	75-125			
Surrogate: 4-Bromofluorobenzene	0.0974		"	0.0682		143	75-125			S-GC

Matrix Spike Dup (P8A3109-MSD1)

Source: 8A29004-49

Prepared & Analyzed: 01/30/18

Benzene	0.0809	0.00114	mg/kg dry	0.114	ND	71.2	80-120	22.2	20	
Toluene	0.0909	0.0114	"	0.114	ND	80.0	80-120	18.1	20	
Ethylbenzene	0.101	0.00568	"	0.114	ND	88.6	80-120	29.7	20	
Xylene (p/m)	0.187	0.0227	"		ND		80-120		20	
Xylene (o)	0.0922	0.0114	"		ND		80-120		20	
Surrogate: 1,4-Difluorobenzene	0.0740		"	0.0682		108	75-125			
Surrogate: 4-Bromofluorobenzene	0.0773		"	0.0682		113	75-125			

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Project: Caza Forehand 27 State #4
 Project Number: 18-0126
 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 P8A3006 - * DEFAULT PREP *****

Blank (P8A3006-BLK1)										
Prepared & Analyzed: 01/30/18										
Chloride	ND	1.00	mg/kg wet							
LCS (P8A3006-BS1)										
Prepared & Analyzed: 01/30/18										
Chloride	428	1.00	mg/kg wet	400		107	80-120			
LCS Dup (P8A3006-BSD1)										
Prepared & Analyzed: 01/30/18										
Chloride	425	1.00	mg/kg wet	400		106	80-120	0.693	20	
Duplicate (P8A3006-DUP1)										
Source: 8A29004-01 Prepared & Analyzed: 01/30/18										
Chloride	21300	55.6	mg/kg dry		21400			0.257	20	
Duplicate (P8A3006-DUP2)										
Source: 8A29004-10 Prepared: 01/30/18 Analyzed: 01/31/18										
Chloride	1520	10.9	mg/kg dry		1510			0.518	20	
Matrix Spike (P8A3006-MS1)										
Source: 8A29004-01 Prepared & Analyzed: 01/30/18										
Chloride	27300	55.6	mg/kg dry	5560	21400	107	80-120			

Batch P8A3113 - * DEFAULT PREP *****

Blank (P8A3113-BLK1)										
Prepared: 01/31/18 Analyzed: 02/01/18										
Chloride	ND	1.00	mg/kg wet							
LCS (P8A3113-BS1)										
Prepared: 01/31/18 Analyzed: 02/01/18										
Chloride	421	1.00	mg/kg wet	400		105	80-120			
LCS Dup (P8A3113-BSD1)										
Prepared: 01/31/18 Analyzed: 02/01/18										
Chloride	415	1.00	mg/kg wet	400		104	80-120	1.44	20	

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 Project Number: 18-0126
 Project Manager: Coty Woolf

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P8A3113 - * DEFAULT PREP *****

Duplicate (P8A3113-DUP1) Source: 8A29004-20 Prepared: 01/31/18 Analyzed: 02/01/18

Chloride	11500	54.3	mg/kg dry		11500			0.114	20	
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Duplicate (P8A3113-DUP2) Source: 8A29004-30 Prepared: 01/31/18 Analyzed: 02/01/18

Chloride	6600	28.7	mg/kg dry		6400			3.10	20	
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Matrix Spike (P8A3113-MS1) Source: 8A29004-20 Prepared: 01/31/18 Analyzed: 02/01/18

Chloride	18200	54.3	mg/kg dry	5430	11500	124	80-120			
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Batch P8B0101 - * DEFAULT PREP *****

Blank (P8B0101-BLK1) Prepared & Analyzed: 02/01/18

% Moisture	ND	0.1	%							
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Duplicate (P8B0101-DUP1) Source: 8A29004-22 Prepared & Analyzed: 02/01/18

% Moisture	9.0	0.1	%		8.0			11.8	20	
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Duplicate (P8B0101-DUP2) Source: 8A29004-49 Prepared & Analyzed: 02/01/18

% Moisture	13.0	0.1	%		12.0			8.00	20	
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Duplicate (P8B0101-DUP3) Source: 8A30001-07 Prepared & Analyzed: 02/01/18

% Moisture	ND	0.1	%		ND				20	
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Duplicate (P8B0101-DUP4) Source: 8A31001-08 Prepared & Analyzed: 02/01/18

% Moisture	5.0	0.1	%		4.0			22.2	20	
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Batch P8B0106 - * DEFAULT PREP *****

Blank (P8B0106-BLK1) Prepared: 02/01/18 Analyzed: 02/03/18

Chloride	ND	1.00	mg/kg wet							
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Project: Caza Forehand 27 State #4
 Project Number: 18-0126
 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
Batch P8B0106 - *** DEFAULT PREP ***										
LCS (P8B0106-BS1) Prepared: 02/01/18 Analyzed: 02/03/18										
Chloride	422	1.00	mg/kg wet	400		106	80-120			
LCS Dup (P8B0106-BSD1) Prepared: 02/01/18 Analyzed: 02/03/18										
Chloride	424	1.00	mg/kg wet	400		106	80-120	0.555	20	
Duplicate (P8B0106-DUP1) Source: 8A29004-40 Prepared: 02/01/18 Analyzed: 02/03/18										
Chloride	1170	29.1	mg/kg dry		1150			2.25	20	
Duplicate (P8B0106-DUP2) Source: 8A29004-50 Prepared: 02/01/18 Analyzed: 02/03/18										
Chloride	184	1.33	mg/kg dry		182			1.17	20	
Matrix Spike (P8B0106-MS1) Source: 8A29004-40 Prepared: 02/01/18 Analyzed: 02/03/18										
Chloride	3600	29.1	mg/kg dry	2330	1150	106	80-120			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P8A3104 - General Preparation (GC)

Blank (P8A3104-BLK1)

Prepared & Analyzed: 01/30/18

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	59.1		"	50.0		118	70-130			

LCS (P8A3104-BS1)

Prepared & Analyzed: 01/30/18

C6-C12	989	25.0	mg/kg wet	1000		98.9	75-125			
>C12-C28	1070	25.0	"	1000		107	75-125			
Surrogate: 1-Chlorooctane	126		"	100		126	70-130			
Surrogate: o-Terphenyl	55.9		"	50.0		112	70-130			

LCS Dup (P8A3104-BSD1)

Prepared & Analyzed: 01/30/18

C6-C12	987	25.0	mg/kg wet	1000		98.7	75-125	0.263	20	
>C12-C28	1060	25.0	"	1000		106	75-125	1.13	20	
Surrogate: 1-Chlorooctane	120		"	100		120	70-130			
Surrogate: o-Terphenyl	59.6		"	50.0		119	70-130			

Duplicate (P8A3104-DUP1)

Source: 8A29004-58

Prepared & Analyzed: 01/30/18

C6-C12	22.7	27.2	mg/kg dry		23.1			1.85	20	
>C12-C28	19.6	27.2	"		17.6			11.2	20	
Surrogate: 1-Chlorooctane	127		"	109		117	70-130			
Surrogate: o-Terphenyl	70.4		"	54.3		130	70-130			

Notes and Definitions

S-GC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
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:

2/5/2018

Brent Barron, Laboratory Director/Technical Director

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If you have received this material in error, please notify us immediately at 432-686-7235.



CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

Phone: 432-686-7235

Project Manager: Coty Woolf

Project Name: C929 Fore hand 27 State

Company Name: North Jetty Environmental Services, LLC

Project #: 18-0126

Company Address: P.O. Box 52483

Project Loc: NM

City/State/Zip: Midland, TX 79701

PO #:

Telephone No: (325) 669-5735

Fax No: (432) 897-4977

Report Format: Standard TRRP NPDES

Sampler Signature: [Signature]

e-mail: northjetservices@gmail.com

Analyze For:

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO ₃ 250,ml Poly	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	None 1L Poly	NaOH/ZnAc	DW=Drinking Water SL=Sludge	CW = Groundwater S=Sol/Solid	NP=Non-Potable Specify Other	TPH by TX 1005 <input checked="" type="checkbox"/> 8015M	Chloride	BTEX by 8021B	
T01	SS-1	0	1	12/18	1000		1	X												X		
T02	-1	1	2		1005		1	X												X		
T03	-1	2	3		1010		1	X												X		
T04	SS-2	0	1		1015		1	X												X		
T05	-2	1	2		1020		1	X												X		
T06	-2	2	3		1025		1	X												X		
T07	SS-3	0	1		1030		1	X												X		
T08	-3	1	2		1035		1	X												X		
T09	-3	2	3		1040		1	X												X		
T10	SS-4	0	1		1045		1	X												X		

Special Instructions:

Relinquished by: [Signature] Date: 12/18 Time: 100

Relinquished by: _____ Date: _____ Time: _____

Relinquished by: _____ Date: _____ Time: _____

Received by: [Signature] Date: 12/18 Time: 13:30

Received by: _____ Date: _____ Time: _____

Received by: _____ Date: _____ Time: _____

Laboratory Comments:

Sample Containers Intact?

VOCs Free of Headspace?

Labels on Containers?

Custody seals on containers?

Custody seals on coolers?

Sample Hand Delivered by Sampler/Client Rep.?

Temperature Upon Receipt by Counter? 41.0 °C

Temperature Adjusted: D.L.

DHL Fedex Lone Star



CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

Phone: 432-686-7235

Project Name: C929 Foreland 27 State

Project #: 18-0126

Project Loc: NMN

Project Manager: Coty Wolf

Company Name: North Jetty Environmental Services, LLC

Company Address: P.O. Box 52483

City/State/zip: Midland, TX 79701

Telephone No: (325) 669-5735

Sampler Signature: [Signature]

e-mail: northjetservices@gmail.com

Fax No: (432) 897-4977

Report Format: Standard TRRP NPDES

PO #:

(lab use only)
ORDER #: 8A 29004

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO ₃ 250ml Poly	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	None 1L Poly	NaOH/ZnAc	DW=Drinking Water SL=Sludge	GW=Groundwater S=Soil/Solid	NP=Non-Potable Specify Other	TPH by TX 1005 8015 8015M	Chloride	BTEX by 80216	Analyze For:	Rush 24 48 72 (Please call)	Standard		
-11	SS-4	1	2	1/29/18	16:50		1	X																X	X	
-12	-4	2	3		11:00		1	X																	X	X
-13	SS-5	0	1		11:05		1	X																	X	X
-14	-5	1	2		11:10		1	X																	X	X
-15	-5	2	3		11:15		1	X																	X	X
-16	SS-6	0	1		11:26		1	X																	X	X
-17	-6	1	2		11:25		1	X																	X	X
-18	-6	2	3		11:30		1	X																	X	X
-19	SS-7	6	1		11:35		1	X																	X	X
-20	-7	1	2		11:40		1	X																	X	X

Special Instructions:

Relinquished by: [Signature] Date: 1/29/18 Time: 1:00 Received by: [Signature] Date: 1/29/18 Time: 13:30

Relinquished by: _____ Date: _____ Time: _____ Received by: _____ Date: _____ Time: _____

Relinquished by: _____ Date: _____ Time: _____ Received by: _____ Date: _____ Time: _____

Laboratory Comments: _____

Sample Containers Intact? Yes No

VOCs Free of Headspace? Yes No

Labels on Containers? Yes No

Custody seals on containers? Yes No

Custody seals on cooler(s)? Yes No

Sample Hand Delivered? Yes No

by Sampler/Client Rep? Yes No

by Courier? Yes No

Temperature upon Receipt: 41.0 °C

Adjusted: 41.0 °C

UPS DHL FedEx LoneStar



CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

Phone: 432-686-7235

Project Name: C929 Forehand 27 State

Project #: 18-0126

Project Loc: NMM

Project Manager: Coty Woolf
Company Name: North Jetty Environmental Services, LLC
Company Address: P.O. Box 52483
City/State/Zip: Midland, TX 79701
Telephone No.: (325) 669-5735

Fax No.: (432) 897-4977

Report Format: Standard TRRP NPDES

Sampler Signature: _____ e-mail: northjetservices@gmail.com

(lab use only)

ORDER #: 8A29004

AB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO ₃ 250ml Poly	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	None 1L Poly	NaOH/ZnAc	DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	TPH by TX 1005 <u>8078B 8015M</u>	<u>Aranda</u>	BTEX by <u>8021B</u>	Analyze For:	
-261	55-7	2	3	12/18	1145		1	X													
-22	55-8	0	1		1156		1	X													
-23	-8	1	2		1155		1	X													
-24	-8	2	3		1200		1	X													
-25	55-9	0	1		1205		1	X													
-26	-9	1	2		1216		1	X													
-27	-9	2	3		1215		1	X													
-28	55-10	0	1		1220		1	X													
-29	-10	1	2		1225		1	X													
-30	-10	2	3		1230		1	X													

Special Instructions:

Relinquished by: _____ Date: 1/29/18 Time: 1000 Received by: _____ Date: _____ Time: _____

Relinquished by: _____ Date: _____ Time: _____ Received by: _____ Date: 1/29/18 Time: 15:30

Relinquished by: _____ Date: _____ Time: _____ Received by: _____ Date: _____ Time: _____

Laboratory Comments: _____

Sample Containers Intact? VOCS Free of Headspace? Labels on container(s)? Custody seals on container(s)? Custody seals on cooler(s)? Sample Hand Delivered by Sampler/Client, Rep? by Courier? UPS DHL FedEx Lora Star

Temperature Upon Receipt: _____ °C 4.1

Advised: _____



CHAIN OF CUSTODY / RECORD AND ANALYSIS REQUEST

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

Phone: 432-686-7235

Project Manager: Coty Wolf
Company Name: North Jetty Environmental Services, LLC
Company Address: P.O. Box 52483
City/State/Zip: Midland, TX 79701
Telephone No: (325) 669-5735
Fax No: (432) 897-4977
e-mail: northjetsyservices@gmail.com

Project Name: C29 Forehand 27 State

Project #: 18-0126

Project Loc: NM

PO #:

Report Format: Standard TRRP NPDES

(lab use only)

ORDER #: SA 29104

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Preservation & # of Containers									Matrix	Analyze For:																				
								Ice	HNO ₃ 250ml Poly	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	None 1L Poly	NaOH/ZnAc	DW=Drinking Water		Sl=Sludge	GW=Groundwater	S=Soil/Solid	NP=Non-Potable	Specify Other	TPH by TX 1005	80158	8015M													
-31	55-11	0	1	1/26/19	136		1	X																														
-32	-11	1	2		135		1	X																														
-33	-11	2	3		146		1	X																														
-34	55-12	0	1		145		1	X																														
-35	-02	1	2		150		1	X																														
36	-02	2	3		155		1	X																														
37	55-13	0	1		200		1	X																														
-38	-17	1	2		205		1	X																														
39	-13	2	3		210		1	X																														
-40	55-14	0	1		215		1	X																														

Special Instructions:

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

11/29/18 15:30

Laboratory Comments:
 Sample Containers Intact?
 VOCs Free of Headspace?
 Labels on containers?
 Custody seals on containers?
 Custody seals on bottles?
 Sample Hand Delivered by Sampler/Client Rep.?
 by Courier? UPS DHL FedEx Lone Star
 Temperature Upon Receipt: 41.0 °C
 Adjusted: 0.4 °C



CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

Phone: 432-686-7236

Project Name: C929 Forward 27 State

Project #: 18-0126

Project Loc: NNM

PO #: _____

Project Manager:

Coty Wolff

Company Name

North Jetty Environmental Services, LLC

Company Address:

P.O. Box 52483

City/State/zip:

Midland, TX 79701

Telephone No.:

(325) 669-5735

Fax No.:

(432) 897-4977

Report Format:

Standard TRRP NPDES

Sampler Signature: _____

e-mail:

northjetservices@gmail.com

Analyze For:

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO ₃ 250ml Poly	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	None 1L Poly	NaOH/ZnAc	DW=Drinking Water SL=Sludge GW=Groundwater S=Soil/Solid NP=Non-Potable Specify Other	TPH by TX 1005, 8015B-8015M	Chloride	BTEX by 8021B	Analyze For:	
-41	SS-14	1	2	1/26/18	2:20		1	X								S					
-42	-14	2	3		2:25		1	X								S					
-43	SS-15	0	1		2:30		1	X								S					
-44	-15	1	2		2:35		1	X								S					
-45	-15	2	3		2:40		1	X								S					
-46	SS-16	0	1		2:45		1	X								S					
-47	-16	1	2		2:56		1	X								S					
-48	-16	1	3		2:55		1	X								S					
-49	SS-17	0	1		3:00		1	X								S					
-50	-17	1	2		3:05		1	X								S					

Preservation & # of Containers

Matrix

Special Instructions:

Relinquished by: _____ Date: 1/29/18 Time: 1:00 Received by: _____ Date: _____ Time: _____

Relinquished by: _____ Date: _____ Time: _____ Received by: _____ Date: 1/29/18 Time: 1:30

Relinquished by: _____ Date: 1/29/18 Time: 4:10 Received by: _____ Date: _____ Time: _____

Temperature upon Receipt: _____ C or F

Laboratory Comments:
 Sample Containers Intact?
 VOCs Free of Headspace?
 Labels on coolers?
 Custody seals on containers?
 Custody seals on coolers?
 Sample Hand Delivered by Sampler/Client Rep. by Courier? UPS DHL FedEx: Lone Star



CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

Phone: 432-686-7235

Project Name: **C924 Foreland 27 State**

Project Manager: Coty Wolf

Company Name: North Jetty Environmental Services, LLC

Company Address: P.O. Box 52483

City/State/Zip: Midland, TX 79701

Telephone No: (325) 669-5735

Sampler Signature: [Signature]

Fax No: (432) 897-4977

e-mail: northjetservices@gmail.com

Report Format: Standard TRRP NPDES

ORDER #: **SA20004**

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	Preservation & # of Containers								Matrix	Analyze For:								
									HNO ₃ 250 ml Poly	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	None 1L Poly	NaOH/ZnAc	DW=Drinking Water SL=Sludge			GW=Groundwater S=Soil/Solid	NP=Non-Potable Specify Other	TPH by TX 1095 8015 8015M	Chloride	BTEX by 8021b			
S1	SS-17	2	3	12/6/18	3:10		1	X																		
S2	SS-18	0	1		3:15		1	X																		
S3	-18	1	2		3:20		1	X																		
S4	-18	2	3		3:25		1	X																		
S5	SS-19	0	1		3:30		1	X																		
S6	-19	1	2		3:35		1	X																		
S7	-19	2	3		3:40		1	X																		
S8	SP-1			12/6/18	12:45		1	X																		

Special Instructions:

Relinquished by: [Signature] Date: 11/29/18 Time: 1:00

Relinquished by: [Signature] Date: 11/29/18 Time: 1:00

Relinquished by: [Signature] Date: 11/29/18 Time: 13:30

Received by: [Signature] Date: 11/29/18 Time: 13:30

Received by: [Signature] Date: 11/29/18 Time: 13:30

Temperature Upon Receipt: 4.0 °C

Laboratory Comments:

Sample Containers Intact?

VOCs Free of Headspace?

Labels on container(s)?

Custody seals on container(s)?

Custody seals on cooler(s)?

Sample Hand Delivered

by Sampler/Client Rep?

Temperature Upon Receipt?

by Courier? UPS? DHL? FedEx? Lone Star?

Adjust: NIL

Rush 24 48 72 (Please call)

Standard

**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: Caza Forehand 27 State #4

Project Number: 18-0126

Location: NM

Lab Order Number: 8E24001



NELAP/TCEQ # T104704516-17-8

Report Date: 05/29/18

North Jetty Environmental Services
5004 Whitman Drive
Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-1 0-1	8E24001-01	Soil	05/21/18 17:05	05-23-2018 17:00
SS-1 1-2	8E24001-02	Soil	05/21/18 17:08	05-23-2018 17:00
SS-2 0-1	8E24001-03	Soil	05/21/18 17:11	05-23-2018 17:00
SS-2 1-2	8E24001-04	Soil	05/21/18 17:14	05-23-2018 17:00
SS-3 0-1	8E24001-05	Soil	05/21/18 17:17	05-23-2018 17:00
SS-3 1-2	8E24001-06	Soil	05/21/18 17:20	05-23-2018 17:00
SS-4 0-1	8E24001-07	Soil	05/21/18 17:23	05-23-2018 17:00
SS-4 1-2	8E24001-08	Soil	05/21/18 17:26	05-23-2018 17:00
SS-5 0-1	8E24001-09	Soil	05/21/18 17:27	05-23-2018 17:00
SS-5 1-2	8E24001-10	Soil	05/21/18 17:29	05-23-2018 17:00
SS-6 0-1	8E24001-11	Soil	05/21/18 17:32	05-23-2018 17:00
SS-6 1-2	8E24001-12	Soil	05/21/18 17:35	05-23-2018 17:00
SS-7 0-1	8E24001-13	Soil	05/21/18 17:38	05-23-2018 17:00
SS-7 1-2	8E24001-14	Soil	05/21/18 17:41	05-23-2018 17:00
SS-8 0-1	8E24001-15	Soil	05/21/18 17:43	05-23-2018 17:00
SS-8 1-2	8E24001-16	Soil	05/21/18 17:44	05-23-2018 17:00
SS-9 0-1	8E24001-17	Soil	05/21/18 17:47	05-23-2018 17:00
SS-9 1-2	8E24001-18	Soil	05/21/18 17:50	05-23-2018 17:00
SS-10 0-1	8E24001-19	Soil	05/21/18 17:53	05-23-2018 17:00
SS-10 1-2	8E24001-20	Soil	05/21/18 18:02	05-23-2018 17:00
SS-11 0-1	8E24001-21	Soil	05/21/18 17:54	05-23-2018 17:00
SS-11 1-2	8E24001-22	Soil	05/21/18 17:56	05-23-2018 17:00
SS-12 0-1	8E24001-23	Soil	05/21/18 18:05	05-23-2018 17:00
SS-12 1-2	8E24001-24	Soil	05/21/18 18:08	05-23-2018 17:00
SS-13 0-1	8E24001-25	Soil	05/21/18 18:11	05-23-2018 17:00
SS-13 1-2	8E24001-26	Soil	05/21/18 18:14	05-23-2018 17:00
SS-14 0-1	8E24001-27	Soil	05/21/18 18:17	05-23-2018 17:00
SS-14 1-2	8E24001-28	Soil	05/21/18 18:20	05-23-2018 17:00
SS-15 0-1	8E24001-29	Soil	05/21/18 18:20	05-23-2018 17:00
SS-15 1-2	8E24001-30	Soil	05/21/18 18:23	05-23-2018 17:00
SS-16 0-1	8E24001-31	Soil	05/21/18 18:26	05-23-2018 17:00
SS-16 1-2	8E24001-32	Soil	05/21/18 18:29	05-23-2018 17:00
SS-17 0-1	8E24001-33	Soil	05/21/18 18:31	05-23-2018 17:00
SS-17 1-2	8E24001-34	Soil	05/21/18 18:34	05-23-2018 17:00

North Jetty Environmental Services
5004 Whitman Drive
Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-18 0-1	8E24001-35	Soil	05/21/18 18:37	05-23-2018 17:00
SS-18 1-2	8E24001-36	Soil	05/21/18 18:43	05-23-2018 17:00

North Jetty Environmental Services
5004 Whitman Drive
Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-1 0-1
8E24001-01 (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	117	1.09	mg/kg dry	1	P8E2408	05/24/18	05/28/18	EPA 300.0	
% Moisture	8.0	0.1	%	1	P8E2503	05/25/18	05/25/18	ASTM D2216	

North Jetty Environmental Services
5004 Whitman Drive
Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-1 1-2
8E24001-02 (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	36.0	1.08	mg/kg dry	1	P8E2408	05/24/18	05/28/18	EPA 300.0	
% Moisture	7.0	0.1	%	1	P8E2503	05/25/18	05/25/18	ASTM D2216	

North Jetty Environmental Services
5004 Whitman Drive
Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-2 0-1
8E24001-03 (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	103	1.08	mg/kg dry	1	P8E2408	05/24/18	05/28/18	EPA 300.0	
% Moisture	7.0	0.1	%	1	P8E2503	05/25/18	05/25/18	ASTM D2216	

North Jetty Environmental Services
5004 Whitman Drive
Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-2 1-2
8E24001-04 (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	44.9	1.06	mg/kg dry	1	P8E2408	05/24/18	05/28/18	EPA 300.0	
% Moisture	6.0	0.1	%	1	P8E2503	05/25/18	05/25/18	ASTM D2216	

North Jetty Environmental Services
5004 Whitman Drive
Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-3 0-1
8E24001-05 (Soil)

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

Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	101	1.08	mg/kg dry	1	P8E2408	05/24/18	05/28/18	EPA 300.0	
% Moisture	7.0	0.1	%	1	P8E2503	05/25/18	05/25/18	ASTM D2216	

North Jetty Environmental Services
5004 Whitman Drive
Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-3 1-2
8E24001-06 (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	37.5	1.09	mg/kg dry	1	P8E2408	05/24/18	05/28/18	EPA 300.0	
% Moisture	8.0	0.1	%	1	P8E2503	05/25/18	05/25/18	ASTM D2216	

North Jetty Environmental Services
5004 Whitman Drive
Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-4 0-1
8E24001-07 (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	83.8	1.11	mg/kg dry	1	P8E2408	05/24/18	05/28/18	EPA 300.0	
% Moisture	10.0	0.1	%	1	P8E2503	05/25/18	05/25/18	ASTM D2216	

North Jetty Environmental Services
5004 Whitman Drive
Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-4 1-2
8E24001-08 (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	36.6	1.08	mg/kg dry	1	P8E2408	05/24/18	05/28/18	EPA 300.0	
% Moisture	7.0	0.1	%	1	P8E2503	05/25/18	05/25/18	ASTM D2216	

North Jetty Environmental Services
5004 Whitman Drive
Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-5 0-1
8E24001-09 (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	87.0	1.11	mg/kg dry	1	P8E2408	05/24/18	05/28/18	EPA 300.0	
% Moisture	10.0	0.1	%	1	P8E2503	05/25/18	05/25/18	ASTM D2216	

North Jetty Environmental Services
5004 Whitman Drive
Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-5 1-2
8E24001-10 (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	80.6	1.10	mg/kg dry	1	P8E2408	05/24/18	05/28/18	EPA 300.0	
% Moisture	9.0	0.1	%	1	P8E2503	05/25/18	05/25/18	ASTM D2216	

North Jetty Environmental Services
5004 Whitman Drive
Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-6 0-1
8E24001-11 (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	75.1	1.11	mg/kg dry	1	P8E2408	05/24/18	05/28/18	EPA 300.0	
% Moisture	10.0	0.1	%	1	P8E2503	05/25/18	05/25/18	ASTM D2216	

North Jetty Environmental Services
5004 Whitman Drive
Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-6 1-2
8E24001-12 (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	17.9	1.08	mg/kg dry	1	P8E2408	05/24/18	05/28/18	EPA 300.0	
% Moisture	7.0	0.1	%	1	P8E2503	05/25/18	05/25/18	ASTM D2216	

North Jetty Environmental Services
5004 Whitman Drive
Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-7 0-1
8E24001-13 (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	76.5	1.15	mg/kg dry	1	P8E2408	05/24/18	05/28/18	EPA 300.0	
% Moisture	13.0	0.1	%	1	P8E2503	05/25/18	05/25/18	ASTM D2216	

North Jetty Environmental Services
5004 Whitman Drive
Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-7 1-2
8E24001-14 (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	64.7	1.14	mg/kg dry	1	P8E2408	05/24/18	05/28/18	EPA 300.0	
% Moisture	12.0	0.1	%	1	P8E2503	05/25/18	05/25/18	ASTM D2216	

North Jetty Environmental Services
5004 Whitman Drive
Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-8 0-1
8E24001-15 (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	78.6	1.06	mg/kg dry	1	P8E2408	05/24/18	05/28/18	EPA 300.0	
% Moisture	6.0	0.1	%	1	P8E2503	05/25/18	05/25/18	ASTM D2216	

North Jetty Environmental Services
5004 Whitman Drive
Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-8 1-2
8E24001-16 (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	55.4	1.12	mg/kg dry	1	P8E2408	05/24/18	05/28/18	EPA 300.0	
% Moisture	11.0	0.1	%	1	P8E2503	05/25/18	05/25/18	ASTM D2216	

North Jetty Environmental Services
5004 Whitman Drive
Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-9 0-1
8E24001-17 (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	82.1	1.11	mg/kg dry	1	P8E2408	05/24/18	05/28/18	EPA 300.0	
% Moisture	10.0	0.1	%	1	P8E2503	05/25/18	05/25/18	ASTM D2216	

North Jetty Environmental Services
5004 Whitman Drive
Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-9 1-2
8E24001-18 (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	56.9	1.12	mg/kg dry	1	P8E2408	05/24/18	05/28/18	EPA 300.0	
% Moisture	11.0	0.1	%	1	P8E2503	05/25/18	05/25/18	ASTM D2216	

North Jetty Environmental Services
5004 Whitman Drive
Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-10 0-1
8E24001-19 (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	88.4	1.11	mg/kg dry	1	P8E2408	05/24/18	05/28/18	EPA 300.0	
% Moisture	10.0	0.1	%	1	P8E2503	05/25/18	05/25/18	ASTM D2216	

North Jetty Environmental Services
5004 Whitman Drive
Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-10 1-2
8E24001-20 (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	56.5	1.12	mg/kg dry	1	P8E2408	05/24/18	05/28/18	EPA 300.0	
% Moisture	11.0	0.1	%	1	P8E2503	05/25/18	05/25/18	ASTM D2216	

North Jetty Environmental Services
5004 Whitman Drive
Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-11 0-1
8E24001-21 (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	91.7	1.12	mg/kg dry	1	P8E2412	05/24/18	05/28/18	EPA 300.0	
% Moisture	11.0	0.1	%	1	P8E2503	05/25/18	05/25/18	ASTM D2216	

North Jetty Environmental Services
5004 Whitman Drive
Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-11 1-2
8E24001-22 (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	52.2	1.12	mg/kg dry	1	P8E2412	05/24/18	05/28/18	EPA 300.0	
% Moisture	11.0	0.1	%	1	P8E2503	05/25/18	05/25/18	ASTM D2216	

North Jetty Environmental Services
5004 Whitman Drive
Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-12 0-1
8E24001-23 (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	86.1	1.11	mg/kg dry	1	P8E2412	05/24/18	05/28/18	EPA 300.0	
% Moisture	10.0	0.1	%	1	P8E2503	05/25/18	05/25/18	ASTM D2216	

North Jetty Environmental Services
5004 Whitman Drive
Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-12 1-2
8E24001-24 (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	52.9	1.14	mg/kg dry	1	P8E2412	05/24/18	05/28/18	EPA 300.0	
% Moisture	12.0	0.1	%	1	P8E2503	05/25/18	05/25/18	ASTM D2216	

North Jetty Environmental Services
5004 Whitman Drive
Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-13 0-1
8E24001-25 (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	3470	54.3	mg/kg dry	50	P8E2412	05/24/18	05/25/18	EPA 300.0	
% Moisture	8.0	0.1	%	1	P8E2503	05/25/18	05/25/18	ASTM D2216	

North Jetty Environmental Services
5004 Whitman Drive
Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-13 1-2
8E24001-26 (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	4820	53.2	mg/kg dry	50	P8E2412	05/24/18	05/25/18	EPA 300.0	
% Moisture	6.0	0.1	%	1	P8E2503	05/25/18	05/25/18	ASTM D2216	

North Jetty Environmental Services
5004 Whitman Drive
Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-14 0-1
8E24001-27 (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	3060	26.9	mg/kg dry	25	P8E2412	05/24/18	05/25/18	EPA 300.0	
% Moisture	7.0	0.1	%	1	P8E2503	05/25/18	05/25/18	ASTM D2216	

North Jetty Environmental Services
5004 Whitman Drive
Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-14 1-2
8E24001-28 (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	5090	53.2	mg/kg dry	50	P8E2412	05/24/18	05/25/18	EPA 300.0	
% Moisture	6.0	0.1	%	1	P8E2503	05/25/18	05/25/18	ASTM D2216	

North Jetty Environmental Services
5004 Whitman Drive
Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-15 0-1
8E24001-29 (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	3120	26.6	mg/kg dry	25	P8E2412	05/24/18	05/25/18	EPA 300.0	
% Moisture	6.0	0.1	%	1	P8E2503	05/25/18	05/25/18	ASTM D2216	

North Jetty Environmental Services
5004 Whitman Drive
Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-15 1-2
8E24001-30 (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	4640	53.8	mg/kg dry	50	P8E2412	05/24/18	05/25/18	EPA 300.0	
% Moisture	7.0	0.1	%	1	P8E2503	05/25/18	05/25/18	ASTM D2216	

North Jetty Environmental Services
5004 Whitman Drive
Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-16 0-1
8E24001-31 (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	2820	53.8	mg/kg dry	50	P8E2412	05/24/18	05/25/18	EPA 300.0	
% Moisture	7.0	0.1	%	1	P8E2503	05/25/18	05/25/18	ASTM D2216	

North Jetty Environmental Services
5004 Whitman Drive
Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-16 1-2
8E24001-32 (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	4390	53.8	mg/kg dry	50	P8E2412	05/24/18	05/25/18	EPA 300.0	
% Moisture	7.0	0.1	%	1	P8E2503	05/25/18	05/25/18	ASTM D2216	

North Jetty Environmental Services
5004 Whitman Drive
Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-17 0-1
8E24001-33 (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	3790	54.3	mg/kg dry	50	P8E2412	05/24/18	05/25/18	EPA 300.0	
% Moisture	8.0	0.1	%	1	P8E2503	05/25/18	05/25/18	ASTM D2216	

North Jetty Environmental Services
5004 Whitman Drive
Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-17 1-2
8E24001-34 (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	4550	53.8	mg/kg dry	50	P8E2412	05/24/18	05/25/18	EPA 300.0	
% Moisture	7.0	0.1	%	1	P8E2503	05/25/18	05/25/18	ASTM D2216	

North Jetty Environmental Services
5004 Whitman Drive
Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-18 0-1
8E24001-35 (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	4080	53.2	mg/kg dry	50	P8E2412	05/24/18	05/25/18	EPA 300.0	
% Moisture	6.0	0.1	%	1	P8E2503	05/25/18	05/25/18	ASTM D2216	

North Jetty Environmental Services
5004 Whitman Drive
Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-18 1-2
8E24001-36 (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	4790	53.2	mg/kg dry	50	P8E2412	05/24/18	05/25/18	EPA 300.0	
% Moisture	6.0	0.1	%	1	P8E2503	05/25/18	05/25/18	ASTM D2216	

North Jetty Environmental Services
 5004 Whitman Drive
 Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
 Project Number: 18-0126
 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
Batch P8E2408 - *** DEFAULT PREP ***										
Blank (P8E2408-BLK1) Prepared: 05/24/18 Analyzed: 05/28/18										
Chloride	ND	1.00	mg/kg wet							
LCS (P8E2408-BS1) Prepared: 05/24/18 Analyzed: 05/28/18										
Chloride	391	1.00	mg/kg wet	400		97.7	80-120			
LCS Dup (P8E2408-BSD1) Prepared: 05/24/18 Analyzed: 05/28/18										
Chloride	392	1.00	mg/kg wet	400		97.9	80-120	0.176	20	
Duplicate (P8E2408-DUP1) Source: 8E24001-01 Prepared: 05/24/18 Analyzed: 05/28/18										
Chloride	111	1.09	mg/kg dry		117			5.60	20	
Duplicate (P8E2408-DUP2) Source: 8E24001-11 Prepared: 05/24/18 Analyzed: 05/28/18										
Chloride	75.0	1.11	mg/kg dry		75.1			0.192	20	
Matrix Spike (P8E2408-MS1) Source: 8E24001-01 Prepared: 05/24/18 Analyzed: 05/28/18										
Chloride	2700	27.2	mg/kg dry	2720	117	94.9	80-120			
Batch P8E2412 - *** DEFAULT PREP ***										
Blank (P8E2412-BLK1) Prepared: 05/24/18 Analyzed: 05/28/18										
Chloride	ND	1.00	mg/kg wet							
LCS (P8E2412-BS1) Prepared: 05/24/18 Analyzed: 05/28/18										
Chloride	397	1.00	mg/kg wet	400		99.2	80-120			
LCS Dup (P8E2412-BSD1) Prepared: 05/24/18 Analyzed: 05/28/18										
Chloride	392	1.00	mg/kg wet	400		98.0	80-120	1.23	20	

North Jetty Environmental Services
 5004 Whitman Drive
 Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
 Project Number: 18-0126
 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 P8E2412 - * DEFAULT PREP *****

Duplicate (P8E2412-DUP1) Source: 8E24001-21 Prepared: 05/24/18 Analyzed: 05/28/18

Chloride	91.7	1.12	mg/kg dry		91.7			0.0368	20	
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Duplicate (P8E2412-DUP2) Source: 8E24001-31 Prepared: 05/24/18 Analyzed: 05/28/18

Chloride	2830	53.8	mg/kg dry		2820			0.229	20	
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Matrix Spike (P8E2412-MS1) Source: 8E24001-21 Prepared: 05/24/18 Analyzed: 05/28/18

Chloride	2060	28.1	mg/kg dry	2250	91.7	87.8	80-120			
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Batch P8E2503 - * DEFAULT PREP *****

Blank (P8E2503-BLK1) Prepared & Analyzed: 05/25/18

% Moisture	ND	0.1	%							
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Duplicate (P8E2503-DUP1) Source: 8E24001-26 Prepared & Analyzed: 05/25/18

% Moisture	6.0	0.1	%		6.0			0.00	20	
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Duplicate (P8E2503-DUP2) Source: 8E24001-36 Prepared & Analyzed: 05/25/18

% Moisture	7.0	0.1	%		6.0			15.4	20	
------------	-----	-----	---	--	-----	--	--	------	----	--

North Jetty Environmental Services
5004 Whitman Drive
Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference
LCS Laboratory Control Spike
MS Matrix Spike
Dup Duplicate

Report Approved By:



Date:

5/29/2018

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

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

Phone: 432-686-7235

114

Project Name: Carzq Foreland 27 5kxh
Project #: 18-01286

Project Loc: Nym

Project Manager: Coty Wolfe

Company Name: North Jetty Environmental Services, LLC

Company Address: P.O. Box 52483

City/State/Zip: Midland, TX 79701

Telephone No: (325) 669-5735

Fax No: (432) 897-4977

Sampler Signature: [Signature]

e-mail: northjetservices@gmail.com

Report Format: Standard TRRP NPDES

ORDER #: BE24001

Analyze For: _____

LAB # (lab use only)

FIELD CODE

Beginning Depth

Ending Depth

Date Sampled

Time Sampled

Field Filtered

Total #. of Containers

Preservation & # of Containers

Matrix

DW=Drinking Water SL=Sludge

GW=Groundwater S=Soil/Solid

NP=Non-Potable Specify Other

TPH by TX 1005 8015B 8015M

Chloride

BTEX by 8021B

Rush 24 (8) 72 (Please call) Standard

-01	SS-1	0	1	5/24/18	505																					
-02	-1	0	1		508																					
-03	SS-2	0	1		511																					
-04	-2	0	1		514																					
-05	SS-3	0	1		517																					
-06	-3	0	1		520																					
-07	SS-4	0	1		523																					
-08	-4	0	1		526																					
-09	SS-5	0	1		527																					
-10	-5	0	1		529																					

Special Instructions:

Relinquished by: _____ Date: 5/23/18 Time: 400 Received by: _____ Date: _____ Time: _____

Relinquished by: _____ Date: _____ Time: _____ Received by: _____ Date: 5/25/18 Time: 1700

Laboratory Comments:
 Sample Containers Insect? _____
 VOCs Free of Headspace? _____
 Labels on Collar(s)? _____
 Custody seals on container(s)? _____
 Custody seals on cooler(s)? _____
 Sample Hand Delivered by Sampler/Client Rep.?
 by Counter? _____ UPS? _____ DHL? _____ FedEx? _____
 Temperature Upon Receipt: _____ °C
 Adjusted: 2.4 °C Factor 0.441



CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

Phone: 432-686-7235

Project Manager: Coty Wolf

Company Name: North Jetty Environmental Services, LLC

Company Address: P.O. Box 52483

City/State/Zip: Midland, TX 79701

Telephone No: (325) 669-5735

Sampler Signature: [Signature]

Project Name: Carzq Forehand 275 Steke

Project #: 18-01286

Project Loc: NYM

PO #: _____

Report Format: Standard TRRP NPDES

Fax No: (432) 897-4977
e-mail: northjetservices@gmail.com

ORDER #: 8E21001

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Preservation & # of Containers											Matrix								
						Field Filtered	Total #. of Containers	Ice	HNO ₃ 250ml Poly	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	None 1L Poly	NaOH/ZnAc	DV=Drinking Water		SL=Sludge	GW=Groundwater	S=Soft/Solid	NP=Non-Potable	Specify Other			
-11	SS-6	0	1	5/24/18	5:32																				
-12	-6	0	1		5:35																				
-13	SS-7	0	1		5:38																				
-14	-7	0	1		5:41																				
-15	SS-8	0	1		5:43																				
-16	-8	0	1		5:44																				
-17	SS-9	0	1		5:47																				
-18	-9	0	1		5:50																				
-19	SS-10	0	1		5:53																				
-20	-10	0	1		6:02																				

Special Instructions: _____

Retrieved by: [Signature] Date: 5/21/18 Time: 4:00

Retrieved by: _____ Date: _____ Time: _____

Retrieved by: _____ Date: 5/23/18 Time: 17:00

Laboratory Comments: _____

Sample Containers intact?

MOCs Free of Headspace?

Labels on container(s)

Custody seals on container(s)

Custody seals on cooler(s)

Sample Hand Delivered?

by Sampler/Client Rep?

by Courier?

UPS

DHL

FedEx

Lone Star

Temperature Upon Receipt: 20 C

Adjusted: 20 C



CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

Phone: 432-686-7236

Project Manager: Coty Wolfe
Company Name: North Jetty Environmental Services, LLC
Company Address: P.O. Box 52483
City/State/zip: Midland, TX 79701
Telephone No: (325) 669-5735
Sampler Signature: _____

Project Name: Carz9
Project #: 18-01286
Project Loc: NM
PO #: _____
Report Format: X Standard TRRP NPDES

Fax No: (432) 897-4977
e-mail: NorthjettyServices@gmail.com

ORDER #: 8E24001

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Preservation & # of Containers								Matrix		Analyze For	
						Field Filtered	Total #. of Containers	Ice	HNO ₃ 250ml Poly	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	None 1L Poly	NaOH/ZnAc	DW=Drinking Water SL=Sludge GW=Groundwater S=Soil/Solid NP=Non-Potable Specify Other	TPH by TX 1005 8015B 8015M
-21	SS-11	0	1	5/24/18	5:54	X	X	X	X	X	X	X	X				
-22	-11	0	1		5:56	X	X	X	X	X	X	X	X				
-23	SS-12	0	1		6:05	X	X	X	X	X	X	X	X				
-24	-12	1	2		8:08	X	X	X	X	X	X	X	X				
-25	SS-13	1	1		6:11	X	X	X	X	X	X	X	X				
-26	-13	1	1		6:14	X	X	X	X	X	X	X	X				
-27	SS-14	0	1		6:17	X	X	X	X	X	X	X	X				
-28	-14	1	2		6:20	X	X	X	X	X	X	X	X				
-29	SS-15	0	1		6:23	X	X	X	X	X	X	X	X				
-30	-15	1	2		6:26	X	X	X	X	X	X	X	X				

Relinquished by: _____ Date: 5/21/18 Time: 06:00
Relinquished by: _____ Date: _____ Time: _____
Relinquished by: _____ Date: _____ Time: _____
Date: 5/23/18 Time: 17:00

Laboratory Comments:
Sample Containers intact?
VOCs Free of Headspace?
Labels on containers?
Custody seals on containers (s)?
Custody seals on cooler(s)?
Sample Hand Delivered?
by Sampler/Client/Rep?
by Counter?
Temperature Upon Receipt: 21.0 °C
DHL FedEx Lone Star
Address: _____

3/4

**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: Caza Forehand 27 State #4

Project Number: 18-0126

Location: NM

Lab Order Number: 8F06010



NELAP/TCEQ # T104704516-17-8

Report Date: 06/07/18

North Jetty Environmental Services
5004 Whitman Drive
Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-13 0-1	8F06010-01	Soil	06/01/18 10:09	06-06-2018 11:30
SS-13 1-2	8F06010-02	Soil	06/01/18 10:17	06-06-2018 11:30
SS-14 0-1	8F06010-03	Soil	06/01/18 10:25	06-06-2018 11:30
SS-14 1-2	8F06010-04	Soil	06/01/18 10:37	06-06-2018 11:30
SS-15 0-1	8F06010-05	Soil	06/01/18 11:54	06-06-2018 11:30
SS-15 1-2	8F06010-06	Soil	06/01/18 11:58	06-06-2018 11:30
SS-16 0-1	8F06010-07	Soil	06/01/18 10:43	06-06-2018 11:30
SS-16 1-2	8F06010-08	Soil	06/01/18 10:50	06-06-2018 11:30
SS-17 0-1	8F06010-09	Soil	06/01/18 11:07	06-06-2018 11:30
SS-17 1-2	8F06010-10	Soil	06/01/18 11:20	06-06-2018 11:30
SS-18 0-1	8F06010-11	Soil	06/01/18 11:26	06-06-2018 11:30
SS-18 1-2	8F06010-12	Soil	06/01/18 11:38	06-06-2018 11:30
SS-19 0-1	8F06010-13	Soil	06/01/18 11:42	06-06-2018 11:30
SS-19 1-2	8F06010-14	Soil	06/01/18 11:50	06-06-2018 11:30

North Jetty Environmental Services
5004 Whitman Drive
Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-13 0-1
8F06010-01 (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	ND	1.10	mg/kg dry	1	P8F0610	06/06/18	06/06/18	EPA 300.0	
% Moisture	9.0	0.1	%	1	P8F0704	06/07/18	06/07/18	ASTM D2216	

North Jetty Environmental Services
5004 Whitman Drive
Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-13 1-2
8F06010-02 (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	7.52	1.10	mg/kg dry	1	P8F0610	06/06/18	06/06/18	EPA 300.0	
% Moisture	9.0	0.1	%	1	P8F0704	06/07/18	06/07/18	ASTM D2216	

North Jetty Environmental Services
5004 Whitman Drive
Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-14 0-1
8F06010-03 (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	26.8	1.06	mg/kg dry	1	P8F0610	06/06/18	06/06/18	EPA 300.0	
% Moisture	6.0	0.1	%	1	P8F0704	06/07/18	06/07/18	ASTM D2216	

North Jetty Environmental Services
5004 Whitman Drive
Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-14 1-2
8F06010-04 (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	17.1	1.09	mg/kg dry	1	P8F0610	06/06/18	06/06/18	EPA 300.0	
% Moisture	8.0	0.1	%	1	P8F0704	06/07/18	06/07/18	ASTM D2216	

North Jetty Environmental Services
5004 Whitman Drive
Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-15 0-1
8F06010-05 (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	19.5	1.06	mg/kg dry	1	P8F0610	06/06/18	06/06/18	EPA 300.0	
% Moisture	6.0	0.1	%	1	P8F0704	06/07/18	06/07/18	ASTM D2216	

North Jetty Environmental Services
5004 Whitman Drive
Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-15 1-2
8F06010-06 (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	14.3	1.08	mg/kg dry	1	P8F0610	06/06/18	06/06/18	EPA 300.0	
% Moisture	7.0	0.1	%	1	P8F0704	06/07/18	06/07/18	ASTM D2216	

North Jetty Environmental Services
5004 Whitman Drive
Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-16 0-1
8F06010-07 (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	81.3	1.09	mg/kg dry	1	P8F0610	06/06/18	06/06/18	EPA 300.0	
% Moisture	8.0	0.1	%	1	P8F0704	06/07/18	06/07/18	ASTM D2216	

North Jetty Environmental Services
5004 Whitman Drive
Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-16 1-2
8F06010-08 (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	39.8	1.09	mg/kg dry	1	P8F0610	06/06/18	06/06/18	EPA 300.0	
% Moisture	8.0	0.1	%	1	P8F0704	06/07/18	06/07/18	ASTM D2216	

North Jetty Environmental Services
5004 Whitman Drive
Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-17 0-1
8F06010-09 (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	42.1	1.08	mg/kg dry	1	P8F0610	06/06/18	06/06/18	EPA 300.0	
% Moisture	7.0	0.1	%	1	P8F0704	06/07/18	06/07/18	ASTM D2216	

North Jetty Environmental Services
5004 Whitman Drive
Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-17 1-2
8F06010-10 (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	57.8	1.09	mg/kg dry	1	P8F0610	06/06/18	06/06/18	EPA 300.0	
% Moisture	8.0	0.1	%	1	P8F0704	06/07/18	06/07/18	ASTM D2216	

North Jetty Environmental Services
5004 Whitman Drive
Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-18 0-1
8F06010-11 (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	86.5	1.10	mg/kg dry	1	P8F0610	06/06/18	06/06/18	EPA 300.0	
% Moisture	9.0	0.1	%	1	P8F0704	06/07/18	06/07/18	ASTM D2216	

North Jetty Environmental Services
5004 Whitman Drive
Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-18 1-2
8F06010-12 (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	53.1	1.10	mg/kg dry	1	P8F0610	06/06/18	06/06/18	EPA 300.0	
% Moisture	9.0	0.1	%	1	P8F0704	06/07/18	06/07/18	ASTM D2216	

North Jetty Environmental Services
5004 Whitman Drive
Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-19 0-1
8F06010-13 (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	14.8	1.01	mg/kg dry	1	P8F0610	06/06/18	06/06/18	EPA 300.0	
% Moisture	1.0	0.1	%	1	P8F0704	06/07/18	06/07/18	ASTM D2216	

North Jetty Environmental Services
5004 Whitman Drive
Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

SS-19 1-2
8F06010-14 (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	35.7	1.00	mg/kg dry	1	P8F0610	06/06/18	06/06/18	EPA 300.0	
% Moisture	ND	0.1	%	1	P8F0704	06/07/18	06/07/18	ASTM D2216	

North Jetty Environmental Services
 5004 Whitman Drive
 Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
 Project Number: 18-0126
 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
Batch P8F0610 - *** DEFAULT PREP ***										
Blank (P8F0610-BLK1) Prepared & Analyzed: 06/06/18										
Chloride	ND	1.00	mg/kg wet							
LCS (P8F0610-BS1) Prepared & Analyzed: 06/06/18										
Chloride	380	1.00	mg/kg wet	400		95.1	80-120			
LCS Dup (P8F0610-BSD1) Prepared & Analyzed: 06/06/18										
Chloride	373	1.00	mg/kg wet	400		93.4	80-120	1.84	20	
Duplicate (P8F0610-DUP1) Source: 8F06010-01 Prepared & Analyzed: 06/06/18										
Chloride	ND	1.10	mg/kg dry		ND				20	
Duplicate (P8F0610-DUP2) Source: 8F06010-11 Prepared & Analyzed: 06/06/18										
Chloride	87.4	1.10	mg/kg dry		86.5			0.973	20	
Matrix Spike (P8F0610-MS1) Source: 8F06010-01 Prepared & Analyzed: 06/06/18										
Chloride	1960	27.5	mg/kg dry	2200	ND	89.4	80-120			
Batch P8F0704 - *** DEFAULT PREP ***										
Blank (P8F0704-BLK1) Prepared & Analyzed: 06/07/18										
% Moisture	ND	0.1	%							
Duplicate (P8F0704-DUP1) Source: 8F06002-04 Prepared & Analyzed: 06/07/18										
% Moisture	9.0	0.1	%		10.0			10.5	20	
Duplicate (P8F0704-DUP2) Source: 8F06008-01 Prepared & Analyzed: 06/07/18										
% Moisture	2.0	0.1	%		2.0			0.00	20	

North Jetty Environmental Services
5004 Whitman Drive
Midland TEXAS, 79705

Project: Caza Forehand 27 State #4
Project Number: 18-0126
Project Manager: Coty Woolf

Fax:

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference
LCS Laboratory Control Spike
MS Matrix Spike
Dup Duplicate

Report Approved By:



Date:

6/7/2018

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.



CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

Phone: 432-686-7235

R

Project Manager:

Coty Woolf

Project Name:

C229 Forehand 27 Sta

Company Name

North Jetty Environmental Services, LLC

Project #:

18-0126

Company Address:

P.O. Box 52483

Project Loc:

WNM

City/State/Zip:

Midland, TX 79701

PO #:

Telephone No:

(325) 669-5735

Fax No:

(432) 897-4977

Report Format: Standard

TRRP

NPDES

Sampler Signature:

e-mail:

northjetservices@gmail.com

Analyze For:

ORDER #: 8FD6D10

(lab use only)

Preservation & # of Containers

Matrix

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO ₃ 250ml Poly	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	None 1L Poly	NaOH/ZnAc	DW=Drinking Water SL=Sludge GW=Groundwater S=Soil/Solid NP=Non-Potable Specify Other	TPH by TX 1005 8015B 8015M	Chlorine	BTEX by 8021B	Rush 24 (46) 72 (Please call)	Standard	
1	SS-13	0	1	6/11/18	1009		1	X													X	
2	-13	0	2		1017		1	X													X	
3	SS-14	0	2		1025		1	X													X	
4	-14	1	2		1037		1	X													X	
5	SS-15	0	1		1054		1	X													X	
6	-15	1	2		1158		1	X													X	
7	SS-16	0	1		1042		1	X													X	
8	-16	1	2		1050		1	X													X	
9	SS-17	0	1		1107		1	X													X	
10	-17	1	2		1120		1	X													X	

Special Instructions:

Relinquished by:

Date

Time

Date

Time

Relinquished by:

Date

Time

Date

Time

Relinquished by:

Date

Time

Date

Time

Received by:

Date

Time

Date

Time

[Signature]

[Signature]

Laboratory Comments:
 Sample Containers: In tact? Y N
 VOCs Free of Headspace? Y N
 Labels on container(s) Y N
 Custody seals on container(s) Y N
 Custody seals on container(s) Y N
 Sample Hand Delivered Y N
 by Sampler/Client Rep. Y N
 by Courier? UPS DHL FedEx Lone Star
 Temperature Upon Receipt: 32.0°C
 Adjusted: Factor 56°C



CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

Phone: 432-686-7235

Project Name: C929 Forehand 27 S for

Project #: 18-0126

Project Loc: WNM

Project Manager: Coty Woolf

Company Name: North Jetty Environmental Services, LLC

Company Address: P.O. Box 52483

City/State/Zip: Midland, TX 79701

Telephone No: (325) 669-5735

Fax No: (432) 897-4977

Report Format: Standard TRRP NPDES

Sampler Signature: [Signature] e-mail: northjetservices@gmail.com

(lab use only)

ORDER #

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO ₃ 250ml Poly	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	None 1L Poly	NaOH/ZnAc	DW=Drinking Water SL=Sludge	GW = Groundwater S=Soil/Solid	NP=Non-Potable Specify Other	TPH by TX 1095 8015B 8015M	Chloride	BTEX by 8021B	Analyze For		
11	55-18	0	1	6/11/18	11:26		1	X																
12	55-18	1	2		11:38		1	X																
13	55-19	0	1		11:42		1	X																
14	55-19	1	2		11:50		1	X																

Special Instructions:

Relinquished by: [Signature] Date: 6/6/18 Time: 11:00

Relinquished by: _____ Date: _____ Time: _____

Relinquished by: _____ Date: _____ Time: _____

Received by: _____ Date: _____ Time: _____

Received by: _____ Date: _____ Time: _____

Received by: _____ Date: _____ Time: _____

Temperature Upon Receipt: _____ °C

Adjusted: _____ °C Factor

Laboratory Comments:

Sample Containers Intact? VOCS Free of Headspace? Labels on containers? Custody seals on container(s)? Custody seals on cooler(s)? Sample Hand Delivered by Sampler/Client Rep. by Courier? UPS DHL FedEx Lone Star Temperature Upon Receipt: _____ °C Adjusted: _____ °C Factor

Rush 24 ~~48~~ 72 (Please call) Standard