SITE CLOSURE REPORT

Shell State #3
1RP-4582
API #30-025-23014
Unit C, Sec.18, Township 11 South, Range 33 East

August 2017

Prepared By:
Republic Backhoe Service, LLC.
47 East Dickens
Lovington, NM 88260

Prepared For:

Read and Stevens Inc.

Republic Backhoe Service, LLC.

August 1, 2017

Olivia Yu NMOCD District I 1625 N. French Dr. Hobbs, NM 88240

Dear Olivia Yu,

Re: Closure Report

Read and Stevens Inc.
Shell State #3 Flowline Spill
Unit C, Section 18, Township 11 South, Range 33 East
Latitude: North 33.370575 Longitude: West 103.652344
API # 30-025-23014
1RP-4582

Republic Backhoe Service, LLC. Submits the attached Closure Report Letter describing remedial activities undertaken to remediate the above noted site. Remediation activities were undertaken by Republic Backhoe Service, LLC. Information and data contained herein were taken from notes, documents, photographs and e-mails directed to/from Republic Backhoe Service LLC.

Incident Date

January 22, 2017

Background Information

The Shell State #3 is located approximately twenty-one (21) miles west of Tatum, New Mexico. The legal location for the well is Unit C, Section 18, Township 11, South and Range 33 East in Lea County, New Mexico. The spill site lies 730 feet east of the Shell

Phone: (575) 631-0131

Republic Backhoe Service, LLC 47 East Dickens Rd. Lovington, NM 88260 State #3 location with the GPS Coordinates as follows: Latitude: 33.370575 North Longitude: -103.652344 West.

Watercourses in the area are dry except for infrequent flows in response to major precipitation events. The soil in this area is made up of Kimbrough-Lea loamy soil. As per the New Mexico Bureau of Geology and Minerals Resources, the local surface and shallow geology is Quaternary formations and is comprised of 5" to 24" loamy soil with hard caliche below the soil. Groundwater in the area is estimated to be at a depth of 56 feet.

The ranking score for this site is 20 based on the following:

Depth to ground water: 56' (50'-99') 20 Wellhead Protection Area: > 1000' 0 Distance to Surface Water Body: > 1000' 0

Incident Description

On January 22, 2017 the flow line between the well and the battery burst causing a release of 14 barrels (6 oil and 8 produced water) onto the pasture. The release was discovered on January 24, 2017.

Actions Taken

According to the C-141 form on January 22, 2017 the flowline from the Shell State #3 ruptured and released approx. 14 barrels (6 Oil and 8 PW) onto the ground. The released was discovered on January 24, 2017 and reported on February 1, 2017. On January 25, 2017 Republic Backhoe Service LLC began to excavate and haul the soil that was saturated with oil. From 1/25/2017 through 1/31/2017 a total of 360 yards of contaminated soil were hauled to Gandy Marly Inc. The dimensions of the Spill Site A are 55' (North Wall) X 135' (East Wall) X 90' (South Wall) X 130' (West Wall). The release that caused Spill Site A impacted an older release Spill Site B that will be attended to as well. The dimensions of the Spill Site B are 115' (West Wall and East Wall) 40' (North Wall) and 15' (South Wall).

Grab samples were collected utilizing a backhoe and a drilling rig. On March 29, 2017 surface samples were taken at the spill sites A and B. On March 23, 2017 and March

24, 2017 bore hole samples were taken at the Spill Site A at a depth of 20' and Spill Site B at a depth of 10'. Laboratory results from the soil sampling are summarized in the table below. All soil samples were collected by Republic Backhoe Service LLC personnel wearing clean nitrile groves. The soil samples were placed in laboratory provided sample containers, iced and transported to Cardinal Labs in Hobbs, NM for analysis. The samples were tested for TPH using EPA method 8015M, and volatile organics (BTEX) using EPA Method 8021B. The chlorides samples were analyzed per Method SM4500C1-B.

Remedial activities resumed on June 15, 2017. From 6/15/2017 through 7/08/2017 a total of 420 yards were hauled to Gandy Marly Inc (An approved NMOCD disposal) and 790 yards of top soil were hauled in from Mr. Pierce's top soil pit. The following table illustrates the spill area excavation depths that were agreed upon by the New Mexico Oil Conservation Division and by the State Land Office. On June 30, 2017 a twenty (20) mil polyethylene line was placed in the excavated area surrounding Center. The polyethylene liner consisting of an area of 76-feet X 61-feet was used to cover an excavated area of 60-feet X 45-feet extending up the sidewalls a minimum of 3-feet and overlapping the edges a minimum of –5 feet. Top soil was placed on the overlapped edges to prevent the polyethylene liner from sloughing into the excavation bottom. Then backfilled the area with top soil.

Sample ID	Depth (bgs)	20 mil liner
North	2'	No
Northeast	0'	No
East	3′	No
Southeast	2'	No
South	2'	No
Southwest	1'	No
West	2'	No
Northwest	2'	No
Central	4′	Yes
NS1	2'	No
NS2	0	No
NS3	1'	No
NS4	1'	No

As previously stated, a total of 790 yards of top soil were hauled in to backfill Spill Area A and Spill Area B. All top soil was hauled from Mr. Pierce's top soil pit located at 33.3879°N, -103.6219°W. The backfill material was 100% top soil no pond bottoms were used in backfilling Spill Area A or Spill Area B.

Revegetation and Noxious Weed Management Plan

Seed Mixture: Warm Season SSR Grass Seed Mix 350

Seeding Rate/ acre: 25 lbs/acre

Timing of Dispersal: July 10, 2017.

Method of Dispersal: The seed was mechanically broadcasted over Spill Area A and Spill Area B. The seed was then covered by running a disc over the area. The spill areas were not artificially watered as proposed. The area received more than 3" of rain in the month of July 2017, so artificially watering was not needed.

Follow up Monitoring Plan: We intend to monitor the area in late summer (before the fall season). We will evaluate the growth of the area to determine if reseeding will be necessary the following spring. We will also monitor for the area for noxious weeds. The area is small enough to rid the weeds mechanically.

Noxious Weeds Control

Republic Backhoe Service LLC takes noxious weed control very serious. All equipment and trucks are inspected before entering the pasture area. For examples truck tires are inspected for seeds between the thread of the tires, and equipment (disc harrow and backhoe) is cleaned off before entering the site. The area will be monitored for the following noxious weeds (but not limited to):

- -Jointed Goatgrass
- -Hoary Cress
- -Cheat Grass

- -African Rue
- -Yellow Starthistle
- -Malta Starthistle
- -Purple Starthistle
- -Common Teasel
- -Camelthorn
- -Russian Knapweed

Remediation of the spill area was completed in compliance with New Mexico State Land Office and NMOCD Rules and Regulations as physically possible. While in situ chloride concentrations are above NMOCD Remedial Threshold goals, the polyethylene liner will abate vertical migration of chlorides and protect groundwater from contamination. On behalf of Read and Stevens Inc. Republic Backhoe Service, LLC, ask that the New Mexico State Land Office and NMOCD approve this site closure.

Thank you,

Eric Garcia

Republic Backhoe Service, LLC.

Laboratory and Field Sample Results

Sample ID	Date	Depth	Chlorides (PPM)	ВТЕХ	TPH (mg/kg) GRO	TPH (mg/kg) DRO	Sample Type	
North								
N-1FS	2/10/17	0′	4800	-	-	-	Field Sample	
N-Surface	3/29/17	Surface	5040	<.300	10	28.3	Lab	
N-2FS	2/10/17	1'	1604	-	-	-	Field Sample	
N-3FS	2/10/17	2′	360	-	-	-	Field Sample	
N 2	2/15/17	2′	-	<.300	10	10	Lab Sample	
N-4FS	2/10/17	3′	64	-	-	-	Field Sample	
N 2-C	2/15/17	3′	32	-	-	-	Lab	
N-5FS	2/10/17	5′	64	-	-	-	Field Sample	
N-6FS	2/10/17	8′	64	-	-	-	Field Sample	
N20	3/23/17	20′	16	<.300	10	10	Lab	
Northeast								
NE-1FS	2/10/17	0′	64	-	-	-	Field Sample	
NE Surface	3/29/17	Surface	32	<.300	10	10	Lab	
NE 0	2/15/17	0′	-	<.300	10	10	Lab	
NE 0-C	2/15/17	0′	32	-	-	-	Lab	
NE-2FS	2/10/17 5′ 64		64	-	-	-	Field Sample	
NE-3FS	2/10/17	8′	64	-	-	-	Field Sample	
NE20	3/23/17	20′	16	<.300	10	10	Lab	

Sample ID	Date	Depth	Chlorides	BTEX	TPH(mg/kg) GRO	TPH(mg/kg) DRO	Sample Type	
East								
E-1FS	2/10/17	0′	5816	-	-	-	Field Sample	
E Surface	3/29/17	Surface	6000	.632	10	1020	Lab	
E-2FS	2/10/17	1′	3204	-	-	-	Field Sample	
E-3FS	2/10/17	2′	640	-	-	-	Field Sample	
E-2	2/15/17	2′	-	<.300	10	10	Lab	
E-4FS	2/10/17	3′	360	-	-	-	Field Sample	
E-5FS	2/10/17	4′	220	-	-	-	Field Sample	
E-6FS	2/10/17	5′	64	-	-	-	Field Sample	
E2-C	2/15/17	5′	16	-	-	-	Lab	
E-7FS	2/10/17	8′	64	-	-	-	Field Sample	
E20	3/23/17	20′	16	<.300	10	10	Lab	
Southeast								
SE-1FS	2/11/17	0′	320	-	-	-	Field Sample	
SE Surface	3/29/2017	Surface	32	.605	225	23200	Lab	
SE-2FS	2/11/17	1′	64	-	-	-	Field Sample	
SE-3FS	2/11/17	2′	64	-	-	-	Field Sample	
SE2	2/15/17	2′	-	<.300	10	10	Lab	
SE 2-C	2/15/17	2′	16	-	-	-	Lab	
SE-4FS	2/11/17			-	Field Sample			
SE-5FS	2/11/17	6′	64	-	-	-	Field Sample	
SE-6FS	2/11/17	8′	64	-	-	-	Field Sample	
SE20	3/23/17	20′	16	<.300	10	10	Lab	

Sample ID	Date	Depth	Chlorides (PPM)	BTEX	TPH (mg/kg) GRO	TPH (mg/kg) DRO	Sample Type
South							
S-1FS	2/11/17	0′	2024	-	-	-	Field Sample
S-Surface	3/29/17	Surface	2240	<.300	10	127	Lab
S-2FS	2/11/17	1'	824	-	-	-	Field Sample
S2	2/15/17	2'	-	<.300	10	10	Lab
S-3FS	2/11/17	2′	484	-	-	-	Field Sample
S-4FS	2/11/17	3′	280	-	-	-	Field Sample
S-5FS	2/11/17	4′	128	-	-	-	Field Sample
S-6FS	2/11/17	5′	64	-	-	-	Field Sample
S2-C	2/15/17	5′	16	-	-	-	Lab
S-7FS	2/11/17	8′	64	-	-	-	Field Sample
S-20	3/23/17	20′	16	<.300	10	10	Lab
Southwest							
SW-1FS	2/11/17	0'	2088	-	-	-	Field Sample
SW-Surface	3/29/17	Surface	2240	<.300	10	127	Lab
SW0	2/15/17	0'	-	<.300	10	10	Lab
SW-2FS	2/11/17	1'	132	-	-	-	Field Sample
SW1-C	2/15/17	1'	64	-	-	-	Lab
SW-3FS	2/11/17	3′	64	-	-	-	Field Sample
SW-4FS	2/11/17	5′	64	-	-	-	Field Sample
SW20	3/23/17	20′	16	<.300	10	10	Lab

Sample ID	Date	Depth	Chlorides (PPM)	ВТЕХ	TPH (mng/kg) GRO	TPH (mg/kg) DRO	Type of Sample
West							
W-1FS	2/12/17	0′	4424	-	-	-	Field Sample
W-Surface	3/29/17	Surface	5920	89.1	1520	10600	Lab
W-2FS	2/12/17	1'	720	-	-	-	Field Sample
W 2	2/15/17	2'	-	<.300	10	10	Lab
W 2-C	2/15/17	2'	16	-	-	-	Lab
W-3FS	2/12/17	2′	128	-	-	-	Field Sample
W-4FS	2/12/17	5′	64	-	-	-	Field Sample
W-20	3/23/17	20′	16	<.300	10	10	Lab
Northwest							
NW-1FS	2/12/17	0′	3644	-	-	-	Field Sample
NW-Surface	3/29/17	Surface	2480	.992	50.2	1570	Lab
NW-2FS	2/12/17	1'	2480	-	-	-	Field Sample
NW-3FS	2/12/17	2′	556	-	-	-	Field Sample
NW-4FS	2/12/17	3′	336	-	-	-	Field Sample
NW5-FS	2/12/17	5′	320	-	-	-	Field Sample
NW 6	2/15/17	6′	-	<.300	10	10	Lab
NW6-FS	2/12/17	8′	164	-	-	-	Field Sample
NW9-c	2/15/17	9′	16		-	-	Field Sample
NW7-FS	2/12/17	10′	64	-	-	-	Field Sample
NW20	3/23/17	20′	16	<.300	10	10	Lab

Sample ID	ple Date Depth		Chlorides (PPM)	ВТЕХ	TPH (mg/kg) GRO	TPH (mg/kg) DRO	Type of Sample
Central							
C-1FS	2/12/17	0′	9600	-	-	-	Field Sample
C-Surface	3/29/17	Surface	700	10.5	197	9200	Lab
C-2FS	2/12/17	1'	4800	-	-	-	Field Sample
C-3FS	2/12/17	2′	1900	-	-	-	Field Sample
2	1/30/17	2′	2200	-	-	-	Lab
5	1/30/17	5′	2480	-	-	-	Lab
7′	1/30/17	7′	2080	-	-	-	Lab
Shell 5	2/1/17	5′	-	<.300	10	58.1	Lab
Shell 6	2/1/17	6′	-	<.300	10	49.3	Lab
Shell 7	2/1/17	7′	-	<.300	10	24.1	Lab
C10	2/16/17	10'	-	<.300	10	10	Lab
C-10FS	2/16/17	10'	212	-	-	-	Field Sample
C-11FS	2/16/17	15′	64	-	-	-	Field Sample
C-15	2/16/17	15′	32	-	-	-	Lab
C20	3/23/17	20′	16	<.300	10	10	Lab
NS-1							
NS1-0FS	2/15/17	0′	640	-	-	-	Field Sample
NS-1 Surface	3/29/17	Surface	512	<.300	10	24.5	Lab
NS1-1FS	2/15/17	1'	624	-	-	-	Lab
NS1-2	2/15/17	2′	240	-	-	-	Field Sample
NS1-3	2/15/17	5′	64	-	-	-	Field Sample
NS1-10	3/24/17	10'	16	<.300	10	10	Lab
NS-2							
NS2-0FS	2/15/17	0′	280	-	-	-	Field Sample
NS2-Surface	3/29/17	Surface	32	<.300	10	10	Lab
NS2-1FS	2/15/17	1'	64	-	-	-	Field Sample
NS2	2/15/17	1'	80	<.300	10	10	Lab
NS2-2FS	2/15/17	5′	64	-	-	-	Field Sample
NS2-10	3/24/17	10′	16	<.300	10	10	Lab

Sample ID	Date	Depth	Chlorides (PPM)	ВТЕХ	TPH (mg/kg) GRO	TPH (mg/kg) DRO	Sample Type
NS-3							
NS3-0FS	2/15/17	0′	1224	-	-	-	Field Sample
NS-Surface	3/29/17	Surface	1960	<.300	10	10	Lab
NS3-1FS	2/15/17	1'	128	-	-	-	Field Sample
NS3	2/15/17	1'	46	<.300	10	10	Lab
NS-4							
NS4-0FS	2/15/17	0′	880	-	-	-	Field Sample
NS-4 Surface	3/29/17	Surface	1180	<.300	10	10	Lab
NS4-1FS	2/15/17	1'	64	-	-	-	Field Sample
NS 4	2/15/17	1'	32	<.300	10	10	Lab
NS4-2FS	2/15/17	5′	64	-	-	-	Field Sample
NS4-10	3/24/17	10′	16	<.300	10	10	Lab

Spill Site A-Delineation

Center

Surface contamination at the center is high (Sample ID C-S). TPH and BTEX reach vertical extent at depths of 5' and remain clean at depths of 10', and 20' (Sample ID Shell 5, C-10, and C20). Chloride contaminants reach vertical extent at depths of 10' (field sample ID C-10 212 PPM) and remain clean at depths of 15' (Sample ID C-15) and 20' (Sample ID C-20).

North

Surface TPH/BTEX contamination is below limits, but chloride contamination at the north is high (N-S). Chloride contaminants reach vertical extent at a depth of 3' (N2-C) and remain clean to a depth of 20' (N-20).

North East

Surface TPH/BTEX/Chloride contamination is below limits, and continue to be below limits to a depth of 20' (NE-20).

East

Surface contamination at the East is high (Sample ID E-S). TPH and BTEX reach vertical extent at depths of 2' (Sample ID E2) and remain clean at a depth of 20' (Sample ID E20). Chloride contaminants reach vertical extent at depths of 4' (Sample ID E2-C) and remain clean at a depth of 20' (Sample ID E-20).

South East

Surface TPH/BTEX contamination at the South East is high (Sample ID SE-S). TPH and BTEX reach vertical extent at depths of 2' (Sample ID SE2) and remain clean at a depth of 20' (Sample ID SE20). Chloride contaminants are below limits at the surface and continue to be clean at depths of 2' (Sample ID SE2-C) and remain clean at a depth of 20' (Sample ID SE-20).

South

Surface contamination at the South is high (Sample ID S-S). TPH and BTEX reach vertical extent at depths of 2' (Sample ID S2) and remain clean at a depth of 20' (Sample ID S20). Chloride contaminants reach vertical extent at depths of 5' (Sample ID S2-C) and remain clean at a depth of 20' (Sample ID E-20).

South West

Surface contamination at the South West is high (Sample ID SW-S). TPH and BTEX reach vertical extent at depths of 0' (Sample ID SW-0) and remain clean at a depth of 20' (Sample ID SW20). Chloride contaminants reach vertical extent at depths of 1' (Sample ID SW-1-C) and remain clean at a depth of 20' (Sample ID SW20).

West

Surface contamination at the West is high (Sample ID W-S). TPH and BTEX reach vertical extent at depths of 2' (Sample ID W2) and remain clean at a depth of 20'

(Sample ID W20). Chloride contaminants reach vertical extent at depths of 2' (Sample ID W2-C) and remain clean at a depth of 20' (Sample ID E-20).

North West

Surface contamination at the North West is high (Sample ID NW-S). TPH and BTEX reach vertical extent at depths of 6' (Sample ID NW6) and remain clean at a depth of 20' (Sample ID NW20). Chloride contaminants reach vertical extent at depths of 9' (Sample ID NW9-C) and remain clean at a depth of 20' (Sample ID NW-20).

Spill Site B-Delineation

NS₁

Surface TPH/BTEX contamination is below limits, but chloride contamination at the NS1 is high (NS1-S). Chloride contaminants reach 1' (Sample ID NS1) and reach vertical extent at a depth of 2' (Field Sample NS1-2) and remain clean to a depth of 10' (NS1-10).

NS2

Surface TPH/BTEX/Chloride contamination is below limits remain clean to a depth of 10′ (NS2-10).

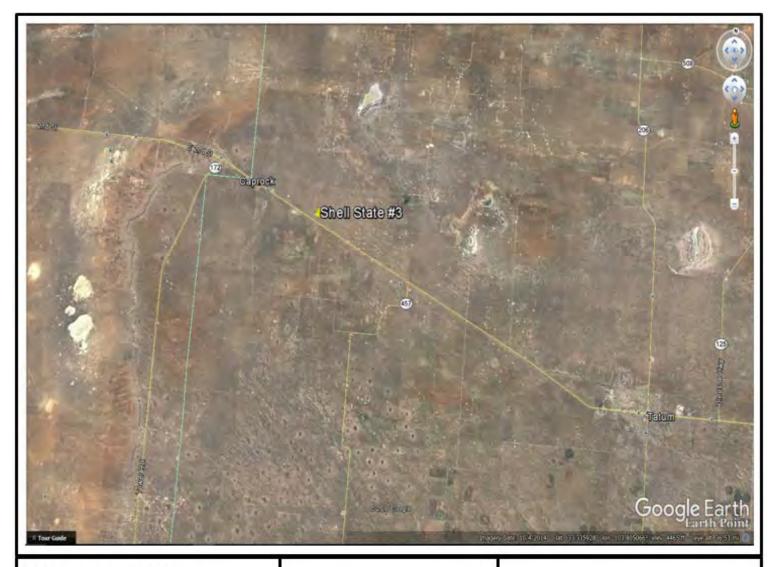
NS3

Surface TPH/BTEX contamination is below limits, but chloride contamination at the NS3 is high (NS3-S). Chloride contaminants reach vertical extent at a depth of 1' (Sample ID NS3) and remain clean to a depth of 10' (NS3-10).

NS4

Surface TPH/BTEX contamination is below limits, but chloride contamination at the NS4 is high (NS4-S). Chloride contaminants reach vertical extent at a depth of 1' (Sample ID NS4) and remain clean to a depth of 10' (NS4-10)

Appendix I Area Map

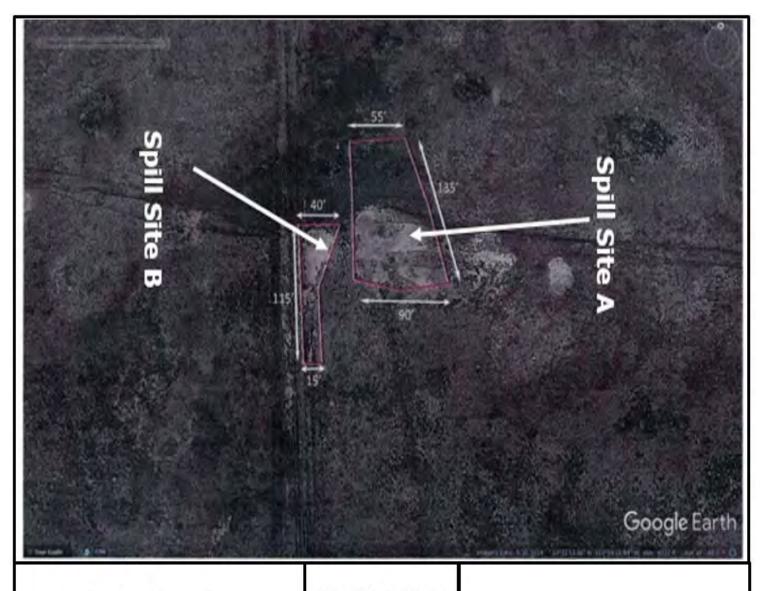


Read and Stevens Inc. Shell State #3 Flowline Leak Lea County, NM

GPS: 33.370932N, 103.653313W

Republic Backhoe Service LLC 47 East Dickens Road Lovington, NM 88260

Figure I Area Map Appendix II Site Map



Republic Backhoe Service LLC 47 East Dickens Rd Lovington, NM 88260

Figure II Site Map Appendix III

Ground Water Data

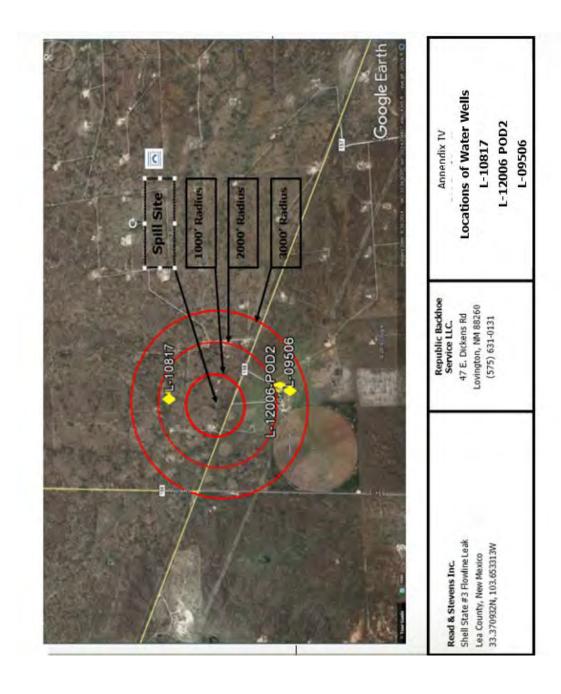


Water Column/Average Depth to Water New Mexico Office of the State Engineer

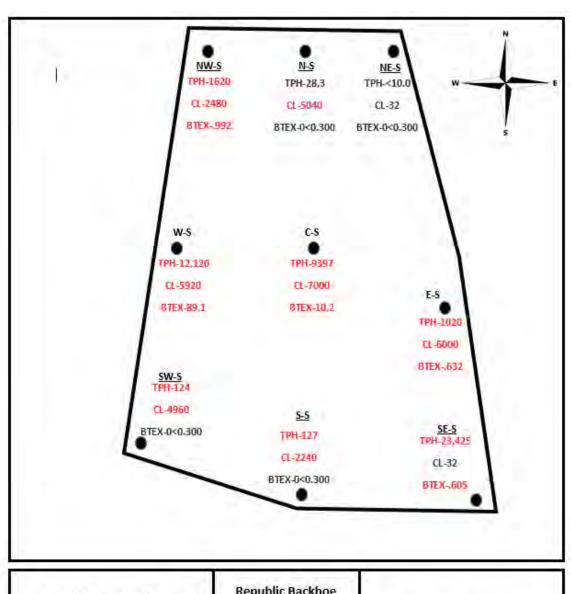
replaced, O-capitaned. C-leaf files is colored in the files is colored in the col	Perplaced. Co-legible Co-	The data is furnished by the NAKOSETISC and is accepted by the recipient with the expressed understanding that the OSETISC make no normation, expressed or implied, concerning the accountry concludences in highlight matching or marketing removes of the data.	UTMINAD83 Radius Searc Easting (X): 625278.71 *UTM location was derived from Pl	Record Count: 17				L 10794	L 10567	L 01640 POD1	L 06249	L 03990	L 03762 POD2	L 03762	L 02043	L 05741	L 06273	L 06362	L 03765 POD3	L 03765	L 03765 S	7 09506 T	L 12006 POD2	L 10817	POD Number	POD suffix indicates the POD has been replaced & no longer serves a water right file.)
(quarters are i=NW=NE 3=SW4-SE) (quarters are smallest to largest) (NAD83 UTM in me Q Q Q LE 34 07 11S 33E 6.2548 369259*) LE 41 1 18 11S 33E 6.2548 369259*) LE 41 1 18 11S 33E 6.2549 369249* LE 14 18 11S 33E 6.2534 369239*) LE 3 2 4 18 11S 33E 6.2531 369249* LE 3 2 4 18 11S 33E 6.2531 369249* LE 3 2 1 11 13 32E 6.2631 369259* LE 3 2 1 11 13 32E 6.2401 369329* LE 3 1 11 2 19 11S 33E 6.2446 3691950* LE 4 12 19 11S 33E 6.2446 3691950* LE 5 3 3 18 11S 33E 6.2446 3691950* LE 1 2 2 19 11S 33E 6.2544 369178* LE 1 2 2 19 11S 33E 6.2546 3691950* LE 1 2 3 08 11S 33E 6.2546 3691950* LE 1 1 2 19 11S 33E 6.2546 3691950* LE 1 1 2 19 11S 33E 6.2546 3691950* LE 1 1 2 19 11S 33E 6.2546 3691950* LE 1 1 2 19 11S 33E 6.2546 3691950* LE 1 1 2 19 11S 33E 6.2546 3691950* LE 1 3 3 2 12 11S 32E 6.2591 369438* LE 2 3 08 11S 33E 6.2591 369438* LE 3 3 2 12 11S 32E 6.2591 369438* LE 3 3 2 12 11S 32E 6.2591 369438* LE 3 3 2 12 11S 32E 6.2591 369438*	(quarters are i=NW2=NE3=SW4=SE) (quarters are smallest to largest) (NAD83 UTM in me (quarters are smallest to largest) (NAD83 UTM in me (parters are smallest to largest) (NAD83 UTM in me (parters are smallest to largest) (NAD83 UTM in me (parters are smallest to largest) (NAD83 UTM in me (parters are smallest to largest) (NAD83 UTM in me (parters are smallest to largest) (NAD83 UTM in me (parters are smallest) (NAD83 UTM in me (parters are sm	a NMOSE/ISC	fius Search (in 625278.71 red from PLSS	2										70					æ	×					Code	
(quarters are i=NV/2=NE 3=SW 4=SE) (quarters are smallest to largest) (NADSS UTIM in the Q Q Q (purters are smallest to largest) (NADSS UTIM in the Q Q Q (purters are smallest to largest) (NADSS UTIM in the Q Q Q (purters are smallest to largest) (NADSS UTIM in the Q Q Q Q (purters are smallest to largest) (NADSS UTIM in the Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q	(quarters are i=NW2=NE3=SW4=SE) (quarters are smallest to largest) (NADS3 UTM in an equation are smallest to	and is acce	meters):					-	۳	H	-	۲	-	۲	-	H	H	-	-	۲	H	H	-	-	POD Sub- basin	replaced, O=orphaned, C=the file is closed)
(quarters are i=NW 2=NE 3=6W 4=SE) (quarters are established to largest) (NADSS UTIM in me Q Q Q 4 11 18 115 31E 0.5248 3693597 4 11 18 115 31E 0.5245 3692597 4 11 18 115 31E 0.5245 3692597 1 14 18 115 31E 0.5245 3692597 3 14 18 115 31E 0.5245 3692597 3 14 18 115 31E 0.5243 3692597 3 14 18 115 31E 0.5243 3692597 4 12 115 31E 0.5240 3692547 4 12 115 31E 0.5240 3692547 4 12 115 31E 0.5240 36912597 1 12 12 115 31E 0.5246 36912597 1 13 12 12 12 12 12 12 1	(quarters are i=NW2=NE j=SW4=SE) (quarters are smallest to largest) (NADSS UTIM in me de 1616 4 Sec Tws Rag	pted by th						H	H	H	H	H	H	H	E	E	H	H	H	H	H	H	H	E	County	
Park 3-SW 4-SE) Rag X Y 33E 6.25418 3692669* 33E 6.25418 369269* 33E 6.25431 369269* 33E 6.25431 369280* 33E 6.25431 369280* 33E 6.26424 369280* 32E 6.24024 3693825* 32E 6.24526 3691950* 33E 6.24526 3691950* 33E 6.25436 3691950* 33E 6.25418 3691355* 32E 6.25711 3694356* 32E 6.25711 3694356* 33E 6.25711 3694356*	**Park 3-SW 4-SE) **Ring X Y 33E 6.25418 3693669* 33E 6.25438 3692361* 33E 6.25438 3692361* 33E 6.25334 3692369* 33E 6.25334 3692300* 33E 6.24240 3693234* 33E 6.24240 3693254* 33E 6.24246 3693950* 33E 6.24546 3693950* 33E 6.25418 369438* 32E 6.25318 369438* 32E 6.25311 369438*	ie reci	J.					44	-			-			-								4		0.2	8.8
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PayE 3-SW 4-SE) Ring X Y 33E 6.23418 3693669* 33E 6.23428 3692361* 33E 6.23536 3692361* 33E 6.23537 3692363 33E 6.23537 3692363 33E 6.23537 3692363 33E 6.24526 3693254* 33E 6.24526 3693950* 33E 6.24526 3693950* 33E 6.24526 3693950* 33E 6.25436 3693950* 33E 6.26439 369438* 32E 6.26411 3694356* 32E 6.26411 3694356* 32E 6.26411 3694356*	PayE 3-SW 4-SE) Ring X Y 33E 6.35418 3693669* 33E 6.35418 3692361* 33E 6.35343 3692361* 33E 6.35343 3692360* 33E 6.35343 369230* 33E 6.3423 3692324* 33E 6.3424 3693250* 33E 6.3424 3693250* 33E 6.3454 3691950* 33E 6.3544 3691950* 33E 6.3548 3691950* 33E 6.35613 369438* 33E 6.35711 369438* 32E 6.35711 369438* 32E 6.35711 369438* 32E 6.35711 369438* 32E 6.35711 369438*		369							53														9	Se	
PayE 3-SW 4-SE) Ring X Y 33E 6.23418 3693669* 33E 6.23428 3692361* 33E 6.23536 3692361* 33E 6.23537 3692363 33E 6.23537 3692363 33E 6.23537 3692363 33E 6.24526 3693254* 33E 6.24526 3693950* 33E 6.24526 3693950* 33E 6.24526 3693950* 33E 6.25436 3693950* 33E 6.26439 369438* 32E 6.26411 3694356* 32E 6.26411 3694356* 32E 6.26411 3694356*	PayE 3-SW 4-SE) Ring X Y 33E 6.35418 3693669* 33E 6.35418 3692361* 33E 6.35343 3692361* 33E 6.35343 3692360* 33E 6.35343 369230* 33E 6.3423 3692324* 33E 6.3424 3693250* 33E 6.3424 3693250* 33E 6.3454 3691950* 33E 6.3544 3691950* 33E 6.3548 3691950* 33E 6.35613 369438* 33E 6.35711 369438* 32E 6.35711 369438* 32E 6.35711 369438* 32E 6.35711 369438* 32E 6.35711 369438*	1	3217					Ħ	Ħ	=	Ħ		Ħ	=	Ħ	=	=	Ħ		Ħ	=				7	e i
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D83 UTM in me y y 3693669* 3692360* 3692360* 3692360* 3692360* 3692354* 3692354* 3692354* 3693254* 3693254* 3694085* 3694085* Average Average	D83 UTM in me y y 3693669* 3692360* 3692360* 3692360* 3692360* 3692354* 3692354* 3692354* 3693254* 3693254* 3694085* 3694085* Average Average							62371	62691	62364	62661	62574	62454	62454	62534	62402	62423	62623	62573	62573	62533	62543	62538			E 3=SW 4= argest)
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Water Water 5 56 60 99 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9		-						6	2		27	8	2	2	8		98	33	=	70	69	70	95	8		

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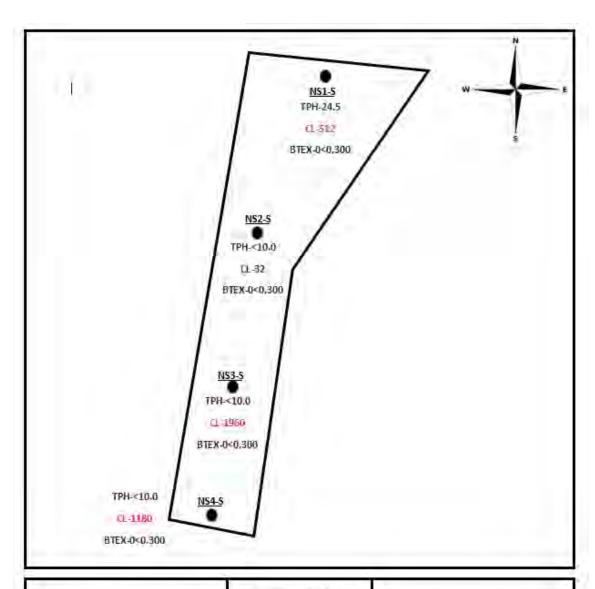
Appendix IV Water Wells Map



Appendix V Surface Samples/Results



Read & Stevens Inc. Republic Backhoe Shell State #3-Spill A Service LLC. Lea County, New Mexico 47 E. Dickens Rd Lovington, NM 88260 3/29/2017 33.370932N, -103.653313W (575) 631-0131

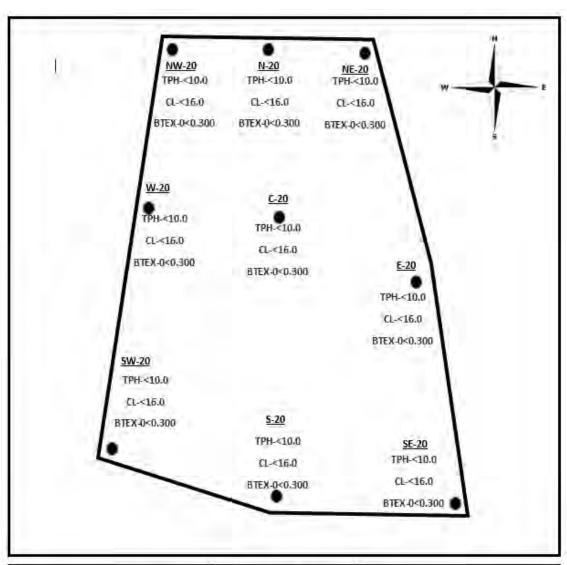


Read & Stevens Inc.

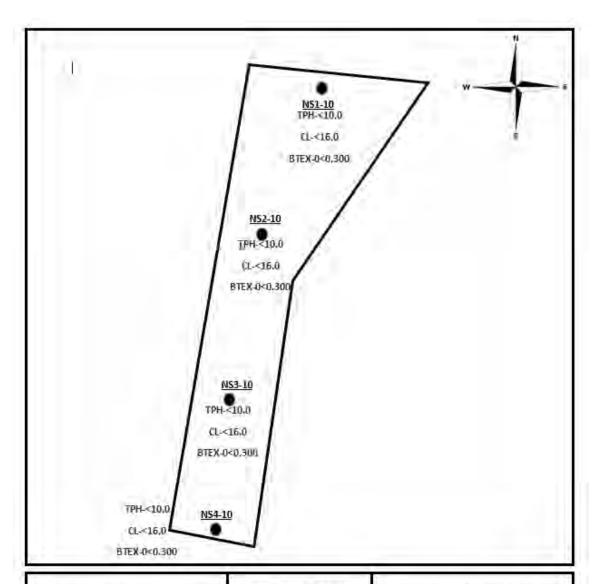
Shell State #3-Spill B Lea County, New Mexico 33.370932N, -103.653313W

Republic Backhoe Service LLC.

47 E. Dickens Rd Lovington, NM 88260 (575) 631-0131 Surface Samples 3/29/2017 Appendix VI Bore Hole Samples/Results



Read & Stevens Inc. Service LLC. Bore Hole Samples Shell State #3-Spill A 47 E. Dickens Rd Depth of 20' Lea County, New Mexico Lovington, NM 88260 3/23/2017 33.370932N, -103.653313W (575) 631-0131 3/23/2017



Read & Stevens Inc.

Shell State #3-Spill B Lea County, New Mexico 33.370932N, -103.653313W

Republic Backhoe Service LLC.

47 E. Dickens Rd Lovington, NM 88260 (575) 631-0131

Bore Hole Samples Depth of 10' 3/23/2017

Appendix VII Photos



Republic Backhoe Service LLC 47. East Dickens Rd Lovington, NM 88260

Date 1/26/2017



Republic Backhoe Service LLC 47. East Dickens Rd Lovington, NM 88260

Date 1/27/2017



Republic Backhoe Service LLC 47. East Dickens Rd Lovington, NM 88260

Date 6/27/2017 Northwest Corner looking to the South.

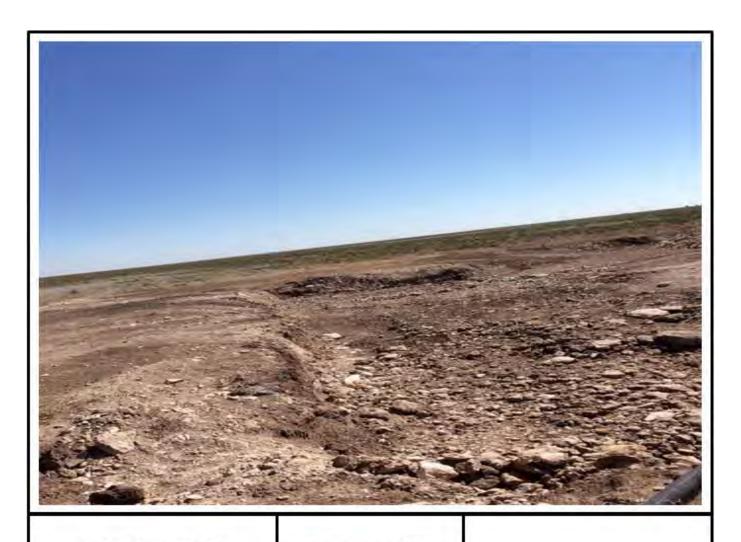


Republic Backhoe Service LLC 47. East Dickens Rd Lovington, NM 88260 Date 6/27/2017 Hard Caliche Shell made for slow digging in the center.



Republic Backhoe Service LLC 47. East Dickens Rd Lovington, NM 88260

Date
6/27/2017
Backfilled South Side and
Continued to dig out the Center.



Republic Backhoe Service LLC 47. East Dickens Rd Lovington, NM 88260

Date 6/27/2017



Republic Backhoe Service LLC 47. East Dickens Rd Lovington, NM 88260

Date 6/29/2017 Prepared Center Area for Liner



Republic Backhoe Service LLC 47. East Dickens Rd Lovington, NM 88260 Date
6/30/2017
Installed 20 Mil liner in the center area. Continued to backfill the site.



Republic Backhoe Service LLC 47. East Dickens Rd Lovington, NM 88260

Date 7/11/2017 Seeded the location on 7/10/17.



Republic Backhoe Service LLC 47. East Dickens Rd Lovington, NM 88260

Date 7/11/2017 Spill Site B



Republic Backhoe Service LLC 47. East Dickens Rd Lovington, NM 88260

Date 7/11/2017 On north side looking south.



Republic Backhoe Service LLC 47. East Dickens Rd Lovington, NM 88260

Date
7/11/2017
On west side looking east.

Appendix VIII C-141 District J 1625 N. French Dr., Hobbs. NM 88240 District JI 811 S. Pirst St., Artesia; NM 88210 District JII 1000 Rio Brazos Road, Aztec, NM 85410 District IV 1220 S. St. Francis Dr., Sarna Fe, NM 87505

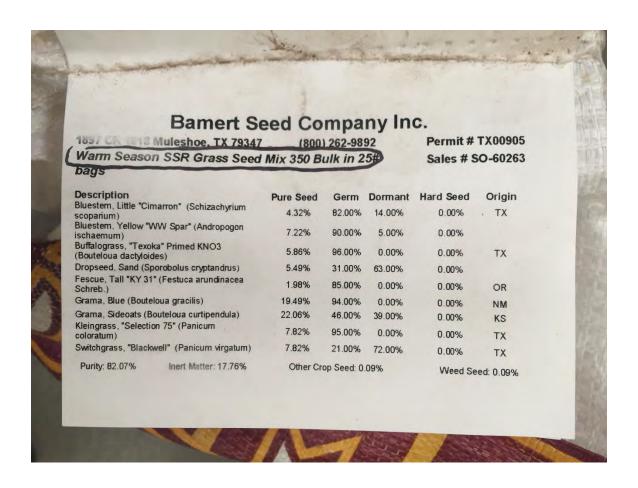
State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Name of Company Read and Stevens Inc. Address P.O Sox 1518 Roswell, Nm 88202 Telephone No. (578) 380-3428 Facility Name Shall State #5 Facility Type Oil Well Flowline Surface Owner State Mineral Owner State AP LOCATION OF RELEASE Unit Letter Section Township Range Feet from the North/South Line Feet from the East/Wess L C 18 115 336 660 FML 2097 FWL. Latitude 33 371284 Longitude -103 855681 NATURE OF RELEASE Type of Release Oil and Produced Water Volume of Release 6 Oil 8 PW Volume of Release 6 Oil 8 PW	Initial Report Final Report
Address P.O Box 1518 Roswell Nm 88202 Telephone No. (578) 380-3428 Facility Name Shall State 83 Facility Type Oil Wallis Facility Surface Owner State Mineral Owner State AP LOCATION OF RELEASE Unit Letter Section Township Range Feet from the North/South Line Feet from the East/West L C 18 115 33E 660 FM. 2057 FM. Latitude 33.371284 Longitude-103.855861 NATURE OF RELEASE Type of Release Oil and Produced Water Source of Release Flowline Leak Was Immediate Notice Given? Yes X No Not Required By Whom? N/A Was a Water course Reached? Yes X No	ine County LEA mie Recovered 0
Facility Name Shall State #5 Facility Type Oil Welliffeswine AP Surface Owner State Mineral Owner State AP LOCATION OF RELEASE Unit Letter Section Township Range Feet from the North/South Line Feet from the East/West L C	ine County LEA mie Recovered 0
Surface Owner State Mineral Owner State AP LOCATION OF RELEASE Unit Letter Section Township Range Feet from the North/South Line Feet from the East/West L C 18 115 33E 660 FM 2097 FM. Latitude 33.371284 Longitude-103.855681 NATURE OF RELEASE Type of Release Oil and Produced Water Volume of Release 6 OW 8 PW Volume of Release Flowline Leak Date and Hour of Occurrence1/22/17 Date Mys Immediate Notice Given? Yes No Not Required If YES, To Whom? No Date and Hour N/A Was a Watercourse Reached? Yes No No	ine County LEA mie Recovered 0
LOCATION OF RELEASE Unit Letter Section Township Range Feet from the North/South Line Feet from the East/West L C 18 115 33E 660 FM. 2097 FM. Latitude 33 371284 Longitude-103 855661 NATURE OF RELEASE Type of Release Oil and Produced Water Volume of Release 6 Oil 8 PM Volume of Release 6 Oil 6 PM Volume of Release Flowline Leak Was Immediate Notice Given? Yes No Not Required By Whom? N/A Was a Watercourse Reached? Yes No No	ine County LEA mie Recovered 0
Unit Letter Section Township Range Feet from the North/South Line Feet from the East/West L C 18 115 33E 660 FM. 2097 FM. Latitude 33.371284 Longitude-103.855681 NATURE OF RELEASE Volume of Release 5 0W 8 PW Volume of Release 5 0W 8 PW Volume of Release Flowline Leak Vas Immediate Notice Given? Yes X No Not Required By Whom? N/A Vas a Watercourse Reached? Yes X No	LEA mine Recovered 0
Latitude 33.371284 Longitude-103.855681 NATURE OF RELEASE Volume of Release Oil and Produced Water Volume of Release 6 OW 8 PW Volume of Release Flowline Leak Date and Hour of Occurrences 2217 Date and Hour of Occurrences 2217 Date of Whom? N/A By Whom? N/A Date and Hour N/A If YES, Volume Impacting the Watercours Reached?	LEA mine Recovered 0
Latitude 33 371284 Longitude 103 855661 NATURE OF RELEASE Type of Release Oil and Produced Water Volume of Release 6 OW 8 PW Volume of Release Flowline Leak Was Immediate Notice Given? Yes No Not Required No Date and Hour NA By Whom? NA Date and Hour NA Was a Watercourse Reached? Yes No	me Recovered 0
Latitude 33 371284 Longitude-103 855681 NATURE OF RELEASE ype of Release Oil and Produced Water Volume of Release 6 OW 8 PW Volume of Release Flowline Leak Vas Immediate Notice Given? Yes No Not Required No Date and Hour of Occurrence 122/17 Date If YES, To Whom? No Whom? N/A Vas a Watercourse Resched? Yes No	
ype of Release Oil and Produced Water Volume of Release 6 OW 8 PW Volume of Release Flowline Leak Vas Immediate Notice Given? Yes X No Not Required If YES, To Whom? No Date and Hour NA Date and Hour NA If YES, Volume Impacting the Watercours	
ype of Release Oil and Produced Water Volume of Release 6 OW 8 PW Volume of Release Flowline Leak Vas Immediate Notice Given? Yes X No Not Required If YES, To Whom? No Date and Hour N/A Vas a Watercourse Reached? Yes X No	
Ource of Release Flowline Leak Tas Immediate Notice Given? Yes X No Not Required Whom? N/A Date and Hour N/A Date and Hour N/A Tas a Watercourse Reached? Yes X No	and Hour of Discovery 1/24/17@ 4
Yes ⊠ No Not Required No Date and Hour N/A Value of Not Not Required No Date and Hour N/A	4-3-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4
by Whom? N/A Date and Hour N/A Vas a Watercourse Reached? Ves 52 No.	
Vas a Watercourse Reached? If YES, Volume Impacting the Watercour.	
☐ Yes № No	Gr.
N/A	
f a Watercourse was Impacted, Describe Fully.*	
Describe Area Affected and Cleanup Action Taken.* The area that was effected measures approx. 100 % 100. Olean up began the day after the spill was discovered [1-25-17]. A backhow an intraminated soil from the affected area to Gandy Marley. As of 2-1-17 a total of 380 yards had been hauled off to Gandy Marley Inc. Also res taken to Cardinal Lates on 1-3-1-2017.	d belly dump began to excavate and hau a began to delineate the spill site, and so
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that regulations all operators are required to report and/or file certain release notifications and perform corrective actions for public health or the environment. The acceptance of a C-141 report by the NMOCD marked as *Final Report* does no	or releases which may endanger of relieve the operator of liability water, surface water, human health
r the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility	
hould their operations have failed to adequately investigate and remediate contamination that pose a threat to ground if the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility ederal, state, or local laws and/or regulations. OIL CONSERVATION CON	ON DIVISION
r the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility orderal, state, or local baws and/or regulations. OIL CONSERVATION OF THE PROPERTY OF THE	ON DIVISION
or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility orderal, state, or local laws and/or regulations. OIL CONSERVATI Signature: Approved by Environmental Specialist:	ON DIVISION ation Date:

Appendix IX Seed Mixture



Appendix X
Cardinal Lab Results



February 03, 2017

JOE TOVAR

READ & STEVENS

P.O. BOX 1719

LOVINGTON, NM 88260

RE: SHELL STATE

Enclosed are the results of analyses for samples received by the laboratory on 02/02/17 14:46.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab.accredited certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



READ & STEVENS
JOE TOVAR
P.O. BOX 1719
LOVINGTON NM, 88260
Fax To: not given

 Received:
 02/02/2017

 Reported:
 02/03/2017

 Project Name:
 SHELL STATE

 Project Number:
 NONE GIVEN

 Project Location:
 SHELL #3

 Sampling Date:
 02/01/2017

 Sampling Type:
 Soil

 Sampling Condition:
 Cool & Intact

 Sample Received By:
 Jodi Henson

Sample ID: SHELL 6 (H700253-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/03/2017	ND	2.19	109	2.00	0.644	
Toluene*	0.051	0.050	02/03/2017	ND	2.15	107	2.00	0.651	
Ethylbenzene*	< 0.050	0.050	02/03/2017	ND	2.15	107	2.00	0.687	
Total Xylenes*	<0.150	0.150	02/03/2017	ND	6.07	101	6.00	0.556	
Total BTEX	<0.300	0.300	02/03/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 5	% 73.6-14	0						
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte.	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/02/2017	ND	192	96.0	200	10.2	
DRO >C10-C28	49,3	10.0	02/02/2017	ND	204	102	200	9.69	
Surrogate: 1-Chlorooctane	96.5	% 35-147							
Surrogate: 1-Chiorooctadecane	107 5	6 28-171							

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Usability and Damages. Cardinal's bookly and clean's exclusive remark for any claim smalling whether based in contract or toot, dhalf he limited to the amount pask by cleant for prolyters. All claims, including those for recipilation of the applicable service. In the event child Cardinal he limited not consequented damages, and contract or took prolyters and the applicable service. In the event child Cardinal he limited to the contract contract child Cardinal he limited to the contract contract child cardinal health contract child health cardinal cardinal health cardinal heal

Celey & Frence

Celey D. Keene, Lab Director/Quality Manager



READ & STEVENS JOE TOVAR P.O. BOX 1719 LOVINGTON NM, 88260 Fax To: not given

 Received:
 02/02/2017

 Reported:
 02/03/2017

 Project Name:
 SHELL STATE

 Project Number:
 NONE GIVEN

 Project Location:
 SHELL #3

Sampling Date: 02/01/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SHELL 7 (H700253-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/03/2017	ND	2.19	109	2.00	0.644	
Toluene*	<0.050	0.050	02/03/2017	ND	2.15	107	2.00	0.651	
Ethylbenzene*	<0.050	0.050	02/03/2017	ND	2.15	107	2.00	0.687	
Total Xylenes*	<0.150	0.150	02/03/2017	ND	6.07	101	6.00	0.556	
Total BTEX	<0.300	0.300	02/03/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 73.6-14	0						
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO 06-C10	<10.0	10.0	02/02/2017	ND	192	96.0	200	10.2	
DRO >C10-C28	24.1	10.0	02/02/2017	ND	204	102	200	9.69	
Surrogate: 1-Chlorooctane	81.9	% 35-147							
Surrogate: 1-Chlorooctadecane	81.2	% 18-171							

Cardinal Laboratories *=Accredited Analyte

RUBBLE WITH Liability and flamages. Control's biblity and clients exclude remains arising whether based to contract or tort, shall be limited to the arrosant part by dient for scalepent, all dains, including those for ne

Celley Z. trains

Celey D. Keene, Lab Director/Quality Manager



READ & STEVENS
JOE TOVAR
P.O. BOX 1719
LOVINGTON NM, 88260
Fax To: not given

 Received:
 02/02/2017

 Reported:
 02/03/2017

 Project Name:
 SHELL STATE

 Project Number:
 NONE GIVEN

 Project Location:
 SHELL #3

Sampling Date: 02/01/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SHELL 5 (H700253-03)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifer
Benzene*	<0.050	0.050	02/03/2017	ND	2.19	109	2.00	0.644	
Toluene*	<0.050	0.050	02/03/2017	ND	2.15	107	2.00	0.651	
Ethylbenzene*	<0.050	0.050	02/03/2017	ND	2.15	107	2.00	0.687	
Total Xylenes*	<0.150	0.150	02/03/2017	ND	6.07	101	6.00	0.556	
Total BTEX	<0.300	0.300	02/03/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 73.6-14	0						
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO 06-C10	<10.0	10.0	02/02/2017	ND	192	96.0	200	10,2	
DRO >C10-C28	58.1	10.0	02/02/2017	ND	204	102	200	9,69	
Surrogate: 1-Chlorooctane	81.3	% 35-147							
Surrogate: 1-Chlorooctadecane	88.9	% 28-171							

Cardinal Laboratories *=Accredited Analyte

RECOUNTY Unbilly not forming. Controls bothly, not clearly extend wrendy for any case study, written based in common or tort, and he limbed to the arrange got by done for party and the study of the st

Celey D. Keene, Lab Director/Quality Manager

Page 4 of 6



Notes and Definitions

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

ND Analyte NOT DETECTED at or above the reporting limit.

RPD Relative Percent Difference.

Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

Chloride by SM4500C-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Unboilty and Conseque. Contrain's biolity and cleart exclusive remedy for any cases around, whether based in contract or fort, shall be limited to the amount pask by dient for analyses. All claims, including those for negligence and any other causes electroner shall be deserved sealed unless made in a setting and necessity Customs within 1997 (20) days after completion of the applicable service. To no exerct shall Custom's in India for nonlessant or consequented charages, including, without historiath, business in rememptions, lost of it, our lost of or principle services. If we would not not consequented charages, claim is based upon any of the above standar measure or otherwise. Needle values of the samples identified places. This import deal not be improved and or the principle of Cardinal (aborations).

Celey D. Keene, Lab Director/Quality Manager

Page 5 of 6



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 6 of 6

Project Manager: Enc	Barrio Sackhoe Se	rvice	BILL TO		ANALYSIS REQUEST
Address: 47 & bi	City: Loxington State: NM zip: 8	69/63	company: head + Stevens		
Project #: 575/390-2035	S	tevers	address: 400 Penn Plaza		
Project Name: One Project Location: She Sampler Name: Cric Ox	Cia #at		State: NM Zip: 88.201 Phone #: 575-622-3770 Fax #: 575-622-7643		
FOR LAB LIST DIA Y		-	PRESERV. SAMPLING		
Lab I.D. H700253	Sample I.D.	G)RAB OR (C)OM CONTAINERS GROUNDWATER NASTEWATER GOIL DIL SLUDGE	ODBASE DE/COOL WHER	TPH BTEX	
2 Chel	76		8/1/17 3	5	
3 She	15				

Laure Barr

Delivered By: (Circle One)

pler - UPS - Bus - Other:

#75

5.20

Jasmine barrov @ yahor.com



February 06, 2017

ERIC GARCIA

REPUBLIC BACKHOE SERVICES

47 E. DICKENS RD

LOVINGTON, NM 88260

RE: READ & STEVENS #3

Enclosed are the results of analyses for samples received by the laboratory on 01/31/17 12:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accredited-certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keens

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

01/31/2017 Received: Reported: 02/06/2017 READ & STEVENS #3 Project Name: Project Number:

NONE GIVEN LEA COUNTY, NM Sampling Date: Sampling Type: Sampling Condition: Sample Received By:

Soil Cool & Intact Celey D. Keene

01/30/2017

Sample ID: 2 (H700227-01)

Project Location:

Chloride, SM4500CI-B Analyzed By: AC mg/kg Reporting Limit Analyte Method Blank True Value OC RPD Qualifier Regult Analyzed BS % Recovery Chloride 2200 16.0 02/03/2017 416 400 ND 104 3,77

Sample ID: 5 (H700227-02)

Chloride, SM4500CI-B mg/kg Analyzed By: AC Analyte Result Reporting Limit Analyzed Method Blank True Value QC RPD Qualifier Chloride 2480 16.0 02/03/2017 ND 416 104 400 3,77

Sample ID: 7 (H700227-03)

Chloride, SM4500CI-B mg/kg Analyzed By: AC Qualifier Analyte Result Reporting Limit Analyzed Method Blank True Value QC RPD Chloride 2080 16.0 02/03/2017 ND 416 104 400 3.77

Cardinal Laboratories

*=Accredited Analyte

PAINAL WOTE: Liability and Europes. Curdina's lability and client exclusive remark for any claim string, whether based in contract or tort, deal be limited to the amount paid by deet for inclinate. All clients, including those for inapproximate dampage, and received by Contral whether thing (VII), days, white completion of the applicable service. This is event stall Curdinal be liable for including, without forthorn, business interruptions, loss of use or loss of youth focuses by client, to substitute, additions or outseason actions of or white the best performance of the services feature forthorn, business interruptions, loss of use or loss of youth focusions. The contract and not be reported on the interruption of the above date feature or otherwise. Sender values only to be supplied terminally within the third opposite of cliental indicatives.

Celley T. trains

Celey D. Keene, Lab Director/Quality Manager

Page 2 of 4



Notes and Definitions

ND	Analyte NOT	DETECTED at	or above the	reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

 Chloride by SM4500Cl-8 does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report.

Cardinal Laboratories *=Accredited Analyte

RESER NOTE: Unbits and Europe: Confinal's liability and clearly exclude remarks for any claim string, whether based in contact or tort, shall be limbed to the amount past by clear for analyses. All claims, including those for resignance and any other cause evaluations what has possible services. In the second shall Customs has been made in vertical and contact in vertical analyses. In the second shall Customs has been deal Customs in vertical analyses. On the second shall Customs has been deal Customs for including, without instance, analyses contact analyses are performance of the service beautiful to be performance of the service beautiful to Customs the second of customs analyses are performance and the service beautiful statements.

Celey D. Keene, Lab Director/Quality Manager

Page 3 of 4



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Name:	Republic Backhopes air	BILL TO	
Project Manager:	farc	P.O. #:	ANALTSIS REQUEST
Address:		Company:	
City:	State: Zip:	Attn:	
Phone #:	Fax	Address:	
	Project Owner:	City:	
Project Name:	track of Strains #3	State: Zip:	
Project Location:	Lea Co. NM	*	
Sampler Name:	tric (forcio	Fax#:	
	(C)OMP		
#700227-	(G)RAB OR	GROUNDW WASTEWAY SOIL OIL SLUDGE OTHER: ACIDIBASE OTHER: ACIDIBASE OTHER: ACIDIBASE ACIDIBASE ACIDIBASE ACIDIBASE ACIDIBASE ACIDIBASE ACIDIBASE ACIDIBASE	
PLEASE NOTE: Unabley and Europpe. Conduct well-year. All clarge bedselves these key supplementa- tionistics. In the freeze band Comband to take to a Willelian or supplementation are used that control to	in Constant's kindly and dunt's sociation recently jet any dates strong whether is replicated and any other classes formation and the improved waterful whole shall be to constant or consequential distances, located by peticut lessed on shall be to be before the constant of periods the strengths of Conference of Section 1.	the landing most delected procedures arounds jet, any others around probabilities benead to concluded on the changes of the transmission of the procedure in the concess of the changes of	
Relinquished By:	Time: Received By	frene	* Samples jars hove haddpace
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	- Other: 3.42	Sample Condition CHECKED BY: Cool Integral Pros Office (Ingitable)	encil: Eric
+ Cardinal		1000	

Page 4 of 4



February 23, 2017

ERIC GARCIA

REPUBLIC BACKHOE SERVICES

47 E. DICKENS RD

LOVINGTON, NM 88260

RE: SHELL ST#3

Enclosed are the results of analyses for samples received by the laboratory on 02/16/17 9:30,

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me,

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 * 101 E. MARLAND * HOBBS, NM 88240

Analytical Results For:

REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

 Received:
 02/16/2017

 Reported:
 02/23/2017

 Project Name:
 SHELL ST#3

 Project Number:
 NONE GIVEN

 Project Location:
 TATUM

Sampling Date: 02/15/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: NS 1 (H700398-01)

Chloride, SM4500CI-B Analyzed By: AC Analyzed Method Blank True Value OC Qualifier Analyte Result Reporting Limit BS % Recovery RPD Chloride 624 02/20/2017 448 16.0 ND 112 400 0.00

Sample ID: NS 2 (H700398-02)

Chloride, SM4500CI-B Analyzed By: AC mg/kg Reporting Limit Analyzed Method Blank True Value QC Qualifier Chloride 80.0 16.0 02/20/2017 ND 112 400 0.00

Sample ID: NS 3 (H700398-03)

Chloride, SM4500Cl-B mg/kg Analyzed By: AC Analyte Result Reporting Limit Analyzed Method Blank % Recovery True Value QC RPD Qualifier Chloride 16.0 16.0 02/20/2017 ND 448 400 0.00 112

Sample ID: NS 4 (H700398-04)

Chloride, SM4500CI-B Analyzed By: AC mg/kg Reporting Limit True Value QC RPD Qualifier Chloride 32.0 16.0 02/20/2017 ND 448 112 400 0.00

Cardinal Laboratories

*=Accredited Analyte

Filtrick (OTT) . Limitity and Durangue. Commant another and control execution revenuely or law of an amount or more, dail for instead to the amount paid by deser for another, and dailing from or replication and any offer cause relatives the minimum of the applicable was a limit or limited to be about the desert dail control to be label for triceristical or consequent dailing, without limitation, business interruption, for of us, or loss of portion control by client, to additione, affiness or account among out of or wished to the performance of the services between the portion of control limitation, business interruption, for of us, or loss of portion control by client, to additione, affiness or account on any out of or which the third the performance of the services between the portion of control limitation.

The performance of the services are advantaged to the performance of the services between the performance of the services of the services of the services and the performance of the services of the serv

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 2 of 13



REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

 Received:
 02/16/2017

 Reported:
 02/23/2017

 Project Name:
 SHELL ST#3

 Project Number:
 NONE GIVEN

 Project Location:
 TATUM

 Sampling Date:
 02/15/2017

 Sampling Type:
 Soil

 Sampling Condition:
 Cool & Intact

 Sample Received By:
 Jodi Henson

Sample ID: N 2 (H700398-05)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifer
Benzene*	<0.050	0.050	02/19/2017	ND	2.02	101	2.00	7.72	
Toluene*	<0.050	0.050	02/19/2017	ND	1.88	94.2	2.00	9.17	
Ethylbenzene*	<0.050	0.050	02/19/2017	ND	1.84	92.0	2.00	12.1	
Total Xylenes*	<0.150	0.150	02/19/2017	ND	5.25	87.4	6.00	12.0	
Total BTEX	<0.300	0.300	02/19/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.0	% 73.6-14	0						
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/17/2017	ND	187	93,3	200	0.843	
DRO >C10-C28	<10.0	10.0	02/17/2017	ND	201	100	200	0,331	
Surrogate: 1-Chlorooctane	79.9	% 35-147	,						
Surrogate: 1-Chiorooctadecane	89.8	% 28-171							

Sample ID: N2 C (H700398-06)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/21/2017	ND	448	112	400	0.00	

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Usable, well barrages. Ordina's lability and clerch exclusive recordy for any clein arising, whether based in comput or fort, deal is installed to the amount until by cleen for eachyses. All cleins, reclaining those for eagligence and any other cases exhibitioner shall be deemed resident trade in entiring and recorded by Cardinal vietin Statey (All days after completion of the applicable across, to no event deal Cardinal be liable for incidental or consequental destroyer, including eithout femalisms, business transportions, loss of use, or loss of profits incomed by cleent, to subdiscip, delivers or uncommunities of ordinal in relability to the performance of the performance

Celey D. Keene, Lab Director/Quality Manager

Page 3 of 13



REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

 Received:
 02/16/2017

 Reported:
 02/23/2017

 Project Name:
 SHELL ST#3

 Project Number:
 NONE GIVEN

 Project Location:
 TATUM

 Sampling Date:
 02/15/2017

 Sampling Type:
 Soil

 Sampling Condition:
 Cool & Intact

 Sample Received By:
 Jodi Henson

Sample ID: NE 0 (H700398-07)

BTEX 80218	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Quartie
Benzene*	< 0.050	0.050	02/19/2017	ND	2.02	101	2.00	7.72	
Toluene*	<0.050	0.050	02/19/2017	ND	1.88	94.2	2.00	9.17	
Ethylbenzene*	< 0.050	0.050	02/19/2017	ND	1.84	92.0	2.00	12.1	
Total Xylenes*	<0.150	0.150	02/19/2017	ND	5.25	87.4	6.00	12.0	
Total BTEX	< 0.300	0.300	02/19/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) TPH 8015M	99.0 mg			d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/17/2017	ND	187	93.3	200	0.843	
DRO >C10-C28	<10.0	10.0	02/17/2017	ND	201	100	200	0,331	

Surrogate: 1-Chiorooctane 85.9% 35-147
Surrogate: 1-Chiorooctadecane 93.3% 28-171

Sample ID: NE O C (H700398-08)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/21/2017	ND	448	112	400	0.00	

Cardinal Laboratories *=Accredited Analyte

PLEAS NOTE: Until yet Danage. Ordina's billiny and clerch exclusive strongs for any clean arrang, whether based in contract or fort, shall be Instead to the amount soul by clear for analyses. All claims, telcining those for neighbors and any other cases efficiency that it is described as a second or a second or analysis of the amount soul Contral is label for incidental or consequents demands, loading, profits of that is, believe that the incident to consequents demands, profits or that the contral is the contral or that the contral or that the contral or the contral or the contral or the contral or that the contral or that the contral or the contral or that the contral or the contral or the contral or that the contral or the contral or

Celey D. Keene, Lab Director/Quality Manager

Page 4 of 13



REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

 Received:
 02/16/2017

 Reported:
 02/23/2017

 Project Name:
 SHELL ST#3

 Project Number:
 NONE GIVEN

 Project Location:
 TATUM

 Sampling Date:
 02/15/2017

 Sampling Type:
 Soil

 Sampling Condition:
 Cool & Intact

 Sample Received By:
 Jodi Henson

Sample ID: NW 6 (H700398-09)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifer
Benzene*	< 0.050	0.050	02/19/2017	ND	2.02	101	2.00	7.72	
Toluene*	<0.050	0.050	02/19/2017	ND	1.88	94.2	2,00	9.17	
Ethylbenzene*	< 0.050	0.050	02/19/2017	ND	1.84	92.0	2.00	12.1	
Total Xylenes*	<0.150	0.150	02/19/2017	ND	5.25	87.4	6.00	12.0	
Total BTEX	<0.300	0.300	02/19/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID.	98.8	% 73,6-14	0						
TPH 8015M	mg	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifer
GRO 06-C10	<10.0	10.0	02/17/2017	ND	187	93.3	200	0.843	
DRO >C10-C28	<10.0	10.0	02/17/2017	ND	201	100	200	0.331	
Surrogate: 1-Chlorooctane	81.9	% 35-147							
Surrogate: 1-Chlorooctadecane	93.6	% 28-171							

Sample ID: NW 9 C (H700398-10)

Chloride, SM4500CI-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifer
Chloride	16.0	16.0	02/21/2017	ND	448	112	400	0.00	

Cardinal Laboratories *=Accredited Analyte

PLINSE WITT: Likelity and Derague. Control's biblity and cleant exclusive memory for any claim string, whether based to contract or tort, chall be limited to the amount past by clear for tradyest. All claims, excluding those for negligence and any other clause evidence that he deemed sealed unless pasts in entiring and received by Custima within 1997 (by) days of the completion of the applicable across. So nevert deal Custima he labels for including, without inflation, business interruptions, loss of use, or loss of lase, or loss of profits increased by Claims, in additionally control or the performance of the workers between the custimate of the section of the section across the control of the control

Celey D. Keene, Lab Director/Quality Manager

Page 5 of 13



REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

 Received:
 02/16/2017

 Reported:
 02/23/2017

 Project Name:
 SHELL ST#3

 Project Number:
 NONE GIVEN

 Project Location:
 TATUM

 Sampling Date:
 02/15/2017

 Sampling Type:
 Soil

 Sampling Condition:
 Cool 8. Intact:

 Sample Received By:
 Jodi Henson

Sample ID: W 2 (H700398-11)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/19/2017	ND	2.02	101	2.00	7.72	
Toluene*	<0.050	0.050	02/19/2017	ND	1.88	94.2	2,00	9.17	
Ethylbenzene*	<0.050	0.050	02/19/2017	ND	1.84	92.0	2.00	12.1	
Total Xylenes*	<0.150	0.150	02/19/2017	ND	5.25	87.4	6.00	12.0	
Total BTEX	<0.300	0.300	02/19/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.5	% 73.5-14	0						
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/17/2017	ND	191	95.4	200	0.386	
DRO >C10-C28	<10.0	10.0	02/17/2017	ND	206	103	200	2.88	
Surrogate: 1-Chlorooctane	83.0	% 35-147							
Surrogate: 1-Chlorooctadecane	99.6	% 28-171							

Sample ID: W2 C (H700398-12)

Chloride, SM4500CI-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/21/2017	ND	448	112	400	0.00	

Cardinal Laboratories *=Accredited Analyte

RAINSE MOTTE: Likelity and Darrague. Diction's likelity and clears exclusive remarky for any claim arising, whether based in command or tirs, shall be limited to the amount paid by clear for analyses. All claims, including those for negligative and any other claims whethere shall be deserted whether claims in infloring and received by Clears whether them (DI) days after completion of the applicable and/or. In no event deal Custima be table for included to incommand analysis, including, whether the completion of the applicable and/or in related to the performance of the lawsest between the lawsest in the event deal custom and the claims and the

Celey D. Keene, Lab Director/Quality Manager

Page 6 of 13



REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

02/15/2017 Received: 02/16/2017 Sampling Date: Reported: 02/23/2017 Sampling Type: Soil Project Name: SHELL ST#3 Sampling Condition: Cool & Intact Project Number: NONE GIVEN Sample Received By: Jodi Henson Project Location:

Sample ID: E 2 (H700398-13)

Jampie 10, L 2 (11/00330 13)									
BTEX 80218	mg/	kg	Analyze	d By: MS					
Analyte	Resut	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifies
Benzene*	< 0.050	0.050	02/19/2017	ND	2.02	101	2,00	7.72	
Toluene*	< 0.050	0.050	02/19/2017	ND	1.88	94.2	2,00	9.17	
Ethylbenzene*	< 0.050	0.050	02/19/2017	ND	1.84	92.0	2.00	12.1	
Total Xylenes*	<0.150	0.150	02/19/2017	ND	5.25	87.4	6.00	12.0	
Total BTEX	<0.300	0.300	02/19/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.0	% 73.6-14	0						
TPH 8015M	mg	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/17/2017	ND	191	95.4	200	0.386	
DRO >C10-C28	<10.0	10.0	02/17/2017	ND	206	103	200	2.88	
Surrogate: 1-Chlorooctane	82.5	% 35-147							
Surrogate: 1-Chlorooctadecane	90.3	% 28-171							

Sample ID: E2 C (H700398-14)

Chloride, SM4500CI-B	e, SM4500CI-B mg/kg			Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/21/2017	ND	448	112	400	0.00	

Cardinal Laboratories *=Accredited Analyte

FIXED WITE Costing and Derayage. Cardiant bodies and clear's exclusive review or any casin sensing, whether based in command or tort, dail for indeed to the annuant sale by clear for subjects and any other cases whiteseev that be deemed related ories made in weeting and received by Cardian Webs Body (days the command of the applicable annuals. In or west dail Cardiant be bodie for incommand or consequently consistent influences by cardiant influences by clear, the absolutions, Milliane or accuration among out of or which the performance of the services because in the performance of the services because in the performance of the services because of the services because of the services because in the performance of the services because of the services because or command or

Celey D. Keene, Lab Director/Quality Manager

Page 7 of 13



REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

Received: 02/16/2017 Reported: 02/23/2017 Project Name: SHELL ST#3 Project Number: NONE GIVEN Project Location: TATUM

Sampling Date: 02/15/2017 Sampling Type: Soil Sampling Condition: Cool & Intact Sample Received By: Jodi Henson

Sample ID: S 2 (H700398-15)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte:	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/19/2017	ND	2.16	108	2,00	0.378	
Toluene*	< 0.050	0.050	02/19/2017	ND	2.03	102	2.00	0.392	
Ethylbenzene*	<0.050	0.050	02/19/2017	ND	2.05	103	2,00	0.236	
Total Xylenes*	< 0.150	0.150	02/19/2017	ND	5.85	97.5	6.00	0.262	
Total BTEX	<0.300	0.300	02/19/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.5	% 73.6-14	0						
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/17/2017	ND	191	95.4	200	0.386	
DRO >C10-C28	<10.0	10.0	02/17/2017	ND	206	103	200	2.88	
Surrogate: 1-Chlorooctane	77.1	% 35-147							
Surrogate: 1-Chlorooctadecane	84.2	% 28-171							

Sample ID: S2 C (H700398-16)

Chloride, SM4500Cl-B	/kg	Analyze							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/21/2017	ND	448	112	400	0.00	

Cardinal Laboratories *=Accredited Analyte

PLEASE MOTE: Liability and Danages. Contain's bodiey and clerct exclusive remay for any cases arising, whether based in contact or tort, stall fire limited to the amount past by clerct for analyses. All claims, including those for magginers and any clears clears whether analysis in the second that it is desired as a second analysis in the second that it is desired as a second analysis in the second that it is desired as a second analysis in the second ana

Celley Z. Frene Celey D. Keene, Lab Director/Quality Manager

Page 8 of 13



REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

 Received:
 02/16/2017

 Reported:
 02/23/2017

 Project Name:
 SHELL ST#3

 Project Number:
 NONE GIVEN

 Project Location:
 TATUM

Sampling Date: 02/15/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SW O (H700398-17)

BTEX 80218	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	02/19/2017	ND	2.16	108	2.00	0.378	
Toluene*	<0.050	0.050	02/19/2017	ND	2.03	102	2.00	0.392	
Ethylbenzene*	< 0.050	0.050	02/19/2017	ND	2.05	103	2.00	0.236	
Total Xylenes*	< 0.150	0.150	02/19/2017	ND	5.85	97.5	6.00	0.262	
Total BTEX	<0.300	0.300	02/19/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.8	% 73,6-14	0						
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte.	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/17/2017	ND	191	95.4	200	0.386	
DRO >C10-C28	<10.0	10.0	02/17/2017	ND	206	103	200	2,88	
Surrogate: 1-Chlorooctane	84.9	% 35-147							
Surrogate: 1-Chiorooctadecane	96.1	% 28-171							

Sample ID: SW 1 C (H700398-18)

Chloride, SM4500CI-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/21/2017	ND	448	112	400	0.00	

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Page 9 of 13



REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

Received: 02/16/2017 Sampling Date: 02/15/2017 02/23/2017 Sampling Type: Soil Reported: SHELL ST#3 Sampling Condition: Cool & Intact Project Name: Project Number: NONE GIVEN Sample Received By: Jodi Henson Project Location: TATUM

Sample ID: SE 2 (H700398-19)

BTEX 80218	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	02/19/2017	ND	2.16	108	2,00	0,378	
Toluene*	< 0.050	0.050	02/19/2017	ND	2.03	102	2.00	0,392	
Ethylbenzene*	< 0.050	0.050	02/19/2017	ND	2.05	103	2.00	0.236	
Total Xylenes*	<0.150	0.150	02/19/2017	ND	5.85	97.5	6.00	0,262	
Total BTEX	<0.300	0.300	02/19/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.5	% 73.6-14	0						
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO 06-C10	<10.0	10.0	02/17/2017	ND	191	95.4	200	0.386	
DRO >C10-C28	<10.0	10.0	02/17/2017	ND	206	103	200	2.88	
Surrogate: 1-Chlorooctane	83.7	% 35-147						- 0	
Surrogate: 1-Chlorooctadecane	94.0	% 28-171							

Sample ID: SE 2 C (H700398-20)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/21/2017	ND	448	112	400	0.00	

Cardinal Laboratories *=Accredited Analyte

FIXED WITE. Untility and branque. Carbon's bodily and clear's exclusive review for any case some provider based in command or tors, and he intend to the provider past of the sequence. All clears, including from the repaigners and any other causes or the highest exclusive within them, by CD, day a the command of the applicable within them, believe to the sequence of the second to the second t

Celley D. France

Celey D. Keene, Lab Director/Quality Manager

Page 10 of 13



Notes and Definitions

QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit:
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

RIGHS WOTE: Underly and Durangue. Controls bothly and clears exclusive revents for any clear straig, whether stand in contract or tot, that he inheld to the annual goal of the replaces and any other cause whatever that he deemed enhand carbon made in entire and necessarily by Control within thinty (D), they after completed of the applicable service. In no event that Control is bable for incidental or consequents damages including, without inhelitors, business interruptions, loss of use, or issue of profits incomed by clearly, a substitute, efficient or accurates artising out of or wheat to the performance of the services beautiful and only of profits. Incomed by clearly, a substitute, without or accurate artising out of or wheat to the performance of the services beautiful and only of the above stated measure or otherwise. Results misse only to the scripts identified above. This report that not be reported as except in full with written approximal control all distributions.

Celey D. Keene, Lab Director/Quality Manager

Page 11 of 13



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Address: 47 E DICKONS Pd	State: NI Zip: 5826	Company: Kead + Streets		
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	Fax#	Attrebee Tovar		
U	Project Owner Kand & Stuce	City: Lovingto		
C		State: NM 20: 85260		
Sec.		Phone #:		
LOUISING CONTRACTOR OF THE PROPERTY OF THE PRO		Fax 神:		
	MATRIX	PRESERV. SAMPLING	le	
1	(G)RAB OR (G)OM CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	ATE	TPH BTEX Chlorid	
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ampler - UPS - Bus - Other:	5.80 Sample Condition	CHECKED BY:	enc Gerzie 62 @ lichmail.cia	

Page 12 of 13



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ompany Name: Ropublic Hockfort	BILL TO	ANALYSIS REQUEST
roject Manager: Er, C (50YC) C.	P.O.#	
iddress: 47 & Dickers Rd	Company	
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roject Name: Of Vell ST-S	State: Zip:	
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Lab I.D. Sample I.D.	(G)RAB OR (C)OME # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / GCOL OTHER:	TPH BTEX Chlor
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	582 Gress Free Christian	(

Page 13 of 13



February 23, 2017

ERIC GARCIA

REPUBLIC BACKHOE SERVICES

47 E. DICKENS RD

LOVINGTON, NM 88260

RE: SHELL ST#3

Enclosed are the results of analyses for samples received by the laboratory on 02/17/17 9:17.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

 Method EPA 552.2
 Haloacetic Acids (HAA-5)

 Method EPA 524.2
 Total Trihalomethanes (TTHM)

 Method EPA 524.4
 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

02/16/2017

Cool & Intact

Jodi Henson

Soil

Analytical Results For:

REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

 Received:
 02/17/2017
 Sampling Date:

 Reported:
 02/23/2017
 Sampling Type:

 Project Name:
 SHELL ST#3
 Sampling Condition:

 Project Number:
 NONE GIVEN
 Sample Received By:

 Project Location:
 TATUM

Sample ID: C 10' (H700413-01)

BTEX 8021B	mg/kg		Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	B5	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/21/2017	ND	2.12	106	2.00	3.29	
Toluene*	< 0.050	0.050	02/21/2017	ND	1.98	98.9	2.00	2.98	
Ethylbenzene*	< 0.050	0.050	02/21/2017	ND	1.96	98.2	2,00	2.35	
Total Xylenes*	<0.150	0.150	02/21/2017	ND	5.65	94.1	6.00	2.87	
Total BTEX	<0.300	0.300	02/21/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.0	6 73.6-14	0						
TPH 8015M		kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/17/2017	ND	182	90.9	200	3.52	
DRO >C10-C28	<10.0	10.0	02/17/2017	ND	185	92.5	200	8,68	
Surrogate: 1-Chlorooctane	84.7	% 35-147							
Surrogate: 1-Chlorooctadecane	98.5	6 28-171							

Sample ID: CENTER 15' (H700413-02)

Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/17/2017	ND	416	104	400	0.00	

Cardinal Laboratories *=Accredited Analyte

RUBGI NOTE: Utables and Damages. Condusts biddle, and clearly exclude vieweds for any clears training, viewfies based to contract or tort, shall be limited to the amount past by dient for scaleges. All claims, excluding those for expigence and any other class evaluations shall be deemed easied unless made in writing and received by Contract within things, DIQ days after completion of the applicable service. In no event shall Cardinal be little for incidental or consequented damages, claims on white the performance of the services beautiful for incidental performance of the services beautiful for consequented damages, claims inhead upon any of the above databal season or otherwise, insults made only to be complete confirmal above. This report shall not be represented or claims also contracts or confirmal about the performance of the services appeared or claims also contracts.

Celey Z. France

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

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

recovery.

ND Analyte NOT DETECTED at or above the reporting limit:

RPD Relative Percent Difference

Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C.

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

RIDGE SOTT: Underly not Durage. Controls bothly are clear a solution revery for any clean strang, whether based in command or tort, and he british to the amount part by does for redgence on any other course arbitratives into be determed watered critical control in the stranger of the applicable service. In no event deal Control is bable for incident or consequently durage including, which inhabitors, business transportions, loss of use, or loss of profits locarsed by clearly the substitute, will be or consent arring out of or wheat to the performance of the service beautiful by Control, regardless of whether and clear is based upon any of the above stated massive or otherwise. Residentless only to the complete locarsely in the whether approach of Control Laboratories.

Celey D. Keene, Lab Director/Quality Manager

Page 3 of 4



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

575) 393-2326	575) 393-2476 BILL TO	ANALYSIS REQUEST
200	P.O.#	
ddress: 47 E Dickens Ku		G.
	State: NM Zip: 88260 Attn: J. Tovor	
575-040-2053	Project Owner: Rend + Stevera City: (Dylington)	
roject Name: Shoull St # 3		
100	Phone #:	
71	Fax #:	
1	MATRIX PRESERV SAMPLING	2
Lab I.D. Sample I.D.	AB OR (C)OMP. NTAINERS UNDWATER TEWATER DGE IR: (BASE; COOL ER:	TPH.
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Page 4 of 4



March 28, 2017

ERIC GARCIA

REPUBLIC BACKHOE SERVICES

47 E. DICKENS RD

LOVINGTON, NM 88260

RE: SHELL ST#3

Enclosed are the results of analyses for samples received by the laboratory on 03/24/17 13:00,

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E, DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

 Received:
 03/24/2017

 Reported:
 03/28/2017

 Project Name:
 SHELL ST#3

 Project Number:
 NONE GIVEN

 Project Location:
 TATUM

 Sampling Date:
 03/24/2017

 Sampling Type:
 Soil

 Sampling Condition:
 Cool & Intact

 Sample Received By:
 Tamara Oldaker

Sample ID: NS 1 - 10 (H700785-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	< 0.050	0.050	03/27/2017	ND	1.98	98.8	2.00	5.25	
Toluene*	0.072	0.050	03/27/2017	ND	1.91	95.7	2.00	5.03	
Ethylbenzene*	< 0.050	0.050	03/27/2017	ND	1.91	95.5	2.00	4.71	
Total Xylenes*	<0.150	0.150	03/27/2017	ND	5.44	90.7	6.00	4.67	
Total BTEX	<0.300	0,300	03/27/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.25	6 72-148							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/27/2017	ND	432	108	400	3,77	
TPH 8015M	mg/	kg	Analyze	d By: MS	- 11				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO 06-C10	<10.0	10.0	03/27/2017	ND	181	90.6	200	0.163	
DRO >C10-C28	<10.0	10.0	03/27/2017	ND	189	94.5	200	0.743	
Surrogate: 1-Chlorooctane	89.9	% 25.1-15	9						
Surrogate: 1-Chlorooctadecane	93.75	6 26.8-17	0						

Cardinal Laboratories *=Accredited Analyte

RIAGO WITE Liability and Damages. Containly liability and clearly endudes remark for any clear and growther based in contact or tot, dual to limite to the annual past by dies for real-year. All clears, including those for real-years and any other cause witnessess and be deemed enhanced using the remark of the position of the applicable annive. In no event dual Curdons to liable for including and contained in the applicable annive. In no event dual Curdons to liable for including and contained including and contained anniversal annive

Celley T. Keine -



REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

 Received:
 03/24/2017

 Reported:
 03/28/2017

 Project Name:
 SHELL 5T#3

 Project Number:
 NONE GIVEN

 Project Location:
 TATUM

 Sampling Date:
 03/24/2017

 Sampling Type:
 Soil

 Sampling Condition:
 Cool & Intact

 Sample Received By:
 Tamara Oldaker

Sample ID: NS 2 - 10 (H700785-02)

BTEX 80218	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2017	ND	1.98	98.8	2.00	5.25	
Toluene*	< 0.050	0.050	03/27/2017	ND	1.91	95.7	2.00	5.03	
Ethylbenzene*	< 0.050	0.050	03/27/2017	ND	1.91	95.5	2.00	4.71	
Total Xylenes*	<0.150	0.150	03/27/2017	ND	5,44	90.7	6.00	4.67	
Total BTEX	<0.300	0,300	03/27/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.4	% 72-148							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: HM					
Analyte:	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/27/2017	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/27/2017	ND	181	90.6	200	0.163	
DRO >C10-C28	<10.0	10.0	03/27/2017	ND	189	94.5	200	0.743	
Surrogate: 1-Chlorooctane	84.4	% 25.1-15	8						
Surrogate: 1-Chlorooctadecane	79.0	26.8-17	0						

Cardinal Laboratories

PLEASE NOTE: Labelity and Damages. Condusts, labelity and clients exclusive remark for any claim arting, whether based in contract or fort, shall be limited to the amount spaid by other for analysis. All claims, including those for negligance and any other cause electrower shall be describe aspect ordered aspect of the spainted service. In on event that Condusts is labele for including all contracts or the applicable service. In on event that Condusts is labele for including all contracts or the spainted services including and the state of the spainted services are contracted or the services between the Condust is the services between the contract or otherwise. Needle visible only to the complex described not not be reported and not be reported aspect of Condust (Discontinue).

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Celey D. Keene, Lab Director/Quality Manager

*=Accredited Analyte



REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

 Received:
 03/24/2017

 Reported:
 03/28/2017

 Project Name:
 SHELL ST#3

 Project Number:
 NONE GIVEN

 Project Location:
 TATUM

 Sampling Date:
 03/24/2017

 Sampling Type:
 Soil

 Sampling Condition:
 Cool & Intact

 Sample Received By:
 Tamara Oldaker

Sample ID: NS 3 - 10 (H700785-03)

BTEX 80218	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	03/27/2017	ND	1.98	98.8	2.00	5.25	
Toluene*	< 0.050	0.050	03/27/2017	ND	1.91	95.7	2,00	5.03	
Ethylbenzene*	< 0.050	0.050	03/27/2017	ND	1.91	95.5	2.00	4.71	
Total Xylenes*	<0.150	0.150	03/27/2017	ND	5.44	90.7	6.00	4.67	
Total BTEX	<0.300	0.300	03/27/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.6	% 72-148							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit.	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/27/2017	ND	432	108	400	3,77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO 06-C10	<10.0	10.0	03/27/2017	ND	181	90.6	200	0.163	
DRO >C10-C28	<10.0	10.0	03/27/2017	ND	189	94.5	200	0.743	
Surrogate: 1-Chlorooctane	36.8	% 25.1-15	S						
Surrogate: 1-Chlorooctadecane	92.7	% 26.8-17	0						

Cardinal Laboratories *=Accredited Analyte

FLIGHT SOTT: Leading and Damages: Cardina's Builty and clearly exclusive remark for any clear antique, whether based in contract trust, data be limited to the annual part by dient for analyses. All clears, including from the neighbors are included to the contract within 1 to the contract of the senting the sentence of the sent

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REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

03/24/2017 03/24/2017 Received: Sampling Date: Reported: 03/28/2017 Sampling Type: Soil SHELL ST#3 Sampling Condition: Cool & Intact Project Name: Project Number: NONE GIVEN Sample Received By: Tamara Oldaker Project Location: TATUM

Sample ID: NS 4 - 10 (H700785-04)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte:	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	03/27/2017	ND	1.98	98.8	2.00	5.25	
Toluene*	<0.050	0.050	03/27/2017	ND	1.91	95.7	2,00	5.03	
Ethylbenzene*	< 0.050	0.050	03/27/2017	ND	1.91	95.5	2.00	4.71	
Total Xylenes*	<0.150	0.150	03/27/2017	ND	5.44	90.7	6.00	4.67	
Total BTEX	<0.300	0.300	03/27/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL)	98.8 9	6 72-148							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/27/2017	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte:	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/27/2017	ND	181	90.6	200	0.163	
DRO >C10-C28	<10.0	10.0	03/27/2017	ND	189	94.5	200	0.743	
Surrogate: 1-Chlorooctane	85.5 5	6 25.1-15	8						
Surrogate: 1-Chlorooctadecane	86.5 9	6 26.8-17	0						

Cardinal Laboratories *=Accredited Analyte

FAUNT Liability and Damages. Confide's Boolity and clear's encases memby for any colors arring, whether based in command or but, deal to limite to the amount paid by clear for yealyses. All daining, including those for registers and any other clears without the business of the applicable whereas, in the event deal Control is both for inclinated or country and profits including, without including, whether including, whether including, whether including, whether including, whether including are applicated on the profits and the profit including and are or one of profits increased by clear, the adoption, and are a reasonable and the profit increased and the profit including and the profit increased and the profit i

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REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

 Received:
 03/24/2017

 Reported:
 03/28/2017

 Project Name:
 SHELL ST#3

 Project Number:
 NONE GIVEN

 Project Location:
 TATUM

 Sampling Date:
 03/23/2017

 Sampling Type:
 Soil

 Sampling Condition:
 Cool & Intact

 Sample Received By:
 Tamara Oldaker

Sample ID: N 20 (H700785-05)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	03/27/2017	ND	1.98	98.8	2.00	5.25	
Toluene*	<0.050	0.050	03/27/2017	ND	1.91	95.7	2.00	5.03	
Ethylbenzene*	<0.050	0.050	03/27/2017	ND	1.91	95.5	2.00	4.71	
Total Xylenes*	<0.150	0.150	03/27/2017	ND	5.44	90.7	6.00	4.67	
Total BTEX	<0.300	0.300	03/27/2017	ND					
Surrogate: 4-Bromofluorobensene (PID	98.25	% 72-148							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: HM					
Analyte:	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	<16.0	16.0	03/27/2017	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10	<10.0	10.0	03/27/2017	ND	181	90.6	200	0.163	
DRO >C10-C28	<10.0	10.0	03/27/2017	ND	189	94.5	200	0.743	
Surrogate: 1-Chlorooctane	91.9	% 25.1-15	8						
Surrogate: 1-Chlorooctadecane	94.45	6 26.8-17	0						

Cardinal Laboratories *=Accredited Analyte

FILIDIS SOTT: Liability and Distrigue. Confinity in this desire seasons record for any claim artifus, whether based in contract or turn, deal to find mount part by district for analyses. All chiefus, including from for analyses were produced as the season of the seasons are contracted for the season of the seasons are contracted for the se

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REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

 Received:
 03/24/2017

 Reported:
 03/28/2017

 Project Name:
 SHELL 5T#3

 Project Number:
 NONE GIVEN

 Project Location:
 TATUM

 Sampling Date:
 03/23/2017

 Sampling Type:
 Soil

 Sampling Condition:
 Cool & Intact

 Sample Received By:
 Tamara Oldaker

Sample ID: NE 20 (H700785-06)

BTEX 80218	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	03/27/2017	ND	1.98	98.8	2.00	5.25	
Toluene*	< 0.050	0.050	03/27/2017	ND	1.91	95.7	2.00	5.03	
Ethylbenzene*	<0.050	0.050	03/27/2017	ND	1.91	95.5	2.00	4.71	
Total Xylenes*	<0.150	0.150	03/27/2017	ND	5,44	90.7	6.00	4.67	
Total BTEX	<0.300	0.300	03/27/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID)	98.45	% 72-148							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: HM					
Analyte:	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/27/2017	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/27/2017	ND	181	90.6	200	0.163	
DRO >C10-C28	<10.0	10.0	03/27/2017	ND	189	94.5	200	0.743	
Surrogate: 1-Chlorooctane	88.65	% 25.1-15	8						
Surrogate: 1-Chlorooctadecane	91.75	26.8-17	0						

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PLINE WITH: Limits and larrague. Cardwalls lability and clients exclusive remay for any calor arising, whether based in context or but, shall be limited to the amount pull by their for analysis. All dains, including those for neighbors are any other cause whethere we shall be deemed shall be deemed shall be limited to the application where. In no event shall be deemed shall be limited for including without limitation, but has to deemed shall be limited for including without limitation, but has to the performance of the services bewarder by Cardwall weighter out of mission to the performance of the services between the performance of the services are the services between the performance of the services are the

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REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E, DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

 Received:
 03/24/2017

 Reported:
 03/28/2017

 Project Name:
 SHELL ST#3

 Project Number:
 NONE GIVEN

 Project Location:
 TATUM

 Sampling Date:
 03/23/2017

 Sampling Type:
 Soil

 Sampling Condition:
 Cool & Intact

 Sample Received By:
 Tamara Oldaker

Sample ID: E 20 (H700785-07)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2017	ND	1.98	98.8	2.00	5.25	
Toluene*	<0.050	0.050	03/27/2017	ND	1.91	95.7	2.00	5.03	
Ethylbenzene*	<0.050	0.050	03/27/2017	ND	1.91	95.5	2.00	4.71	
Total Xylenes*	<0.150	0.150	03/27/2017	ND	5.44	90.7	6.00	4,67	
Total BTEX	<0.300	0.300	03/27/2017	ND					
Surrogate: 4-Bromofluorobensene (PID	98.4	% 72-148							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16,0	16.0	03/27/2017	ND	432	108	400	3.77	
TPH 8015M	mg	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO 06-C10	<10.0	10.0	03/27/2017	ND	181	90.6	200	0.163	
DRO >C10-C28	<10.0	10.0	03/27/2017	ND	189	94.5	200	0.743	
Surrogate: 1-Chlorooctane	94.0	% 25.1-13	8						
Surrogate: 1-Chlorooctadecane	93.6	% 26.8-17	0						

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REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

 Received:
 03/24/2017

 Reported:
 03/28/2017

 Project Name:
 SHELL ST#3

 Project Number:
 NONE GIVEN

 Project Location:
 TATUM

Sampling Date: 03/23/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SE 20 (H700785-08)

BTEX 8021B	mg/l	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	03/27/2017	ND	1.98	98.8	2,00	5.25	
Toluene*	<0.050	0.050	03/27/2017	ND	1.91	95.7	2.00	5.03	
Ethylbenzene*	<0.050	0.050	03/27/2017	ND	1.91	95,5	2,00	4.71	
Total Xylenes*	<0.150	0.150	03/27/2017	ND	5.44	90.7	6.00	4.67	
Total BTEX	<0.300	0.300	03/27/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.99	6 72-148							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	<16.0	16.0	03/27/2017	ND	432	108	400	3.77	
TPH 8015M	mg/l	kg	Analyze	d By: MS					
Analyte:	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO 06-C10	<10.0	10.0	03/27/2017	ND	181	90.6	200	0.163	
DRO >C10-C28	<10.0	10.0	03/27/2017	ND	189	94.5	200	0.743	
Surrogate: 1-Chiorooctane	85.09	6 25,1-15	9						
Surrogate: 1-Chlorooctadecane	86.29	6 26.8-17	Ö						

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REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

 Received:
 03/24/2017

 Reported:
 03/28/2017

 Project Name:
 SHELL ST#3

 Project Number:
 NONE GIVEN

 Project Location:
 TATUM

 Sampling Date:
 03/23/2017

 Sampling Type:
 Soil

 Sampling Condition:
 Cool & Intact

 Sample Received By:
 Tamara Oldaker

Sample ID: S 20 (H700785-09)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	03/27/2017	ND	1.98	98.8	2,00	5.25	
Toluene*	<0.050	0.050	03/27/2017	ND	1.91	95.7	2.00	5.03	
Ethylbenzene*	<0.050	0.050	03/27/2017	ND	1.91	95.5	2.00	4.71	
Total Xylenes*	<0.150	0.150	03/27/2017	ND	5.44	90.7	6.00	4.67	
Total BTEX	<0.300	0.300	03/27/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.8	% 72-148							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	<16.0	16.0	03/27/2017	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte:	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifies
GRO C6-C10	<10.0	10.0	03/27/2017	ND	181	90.6	200	0.163	
DRO >C10-C28	<10.0	10.0	03/27/2017	ND	189	94.5	200	0.743	
Surrogate: 1-Chlorooctane	90.65	% 25.1-15	8						
Surrogate: 1-Chlorooctadecane	92.5	6 26.8-17	0						

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REASE NOTE: Ubbility and Euroages. Conditive labelity and clients exclusive remarks for any claim artising, whether based in contract or tort, deal to limited to the amount paid by deat for analyses. All claims, including tross for engigence and any other clause extractives stall be deemed remarks all claims are in writing and received by Contrall within thing (20) days after completion of the applicable service. In so, events that Cardinal be limited to including, without introducing, believes interruptions, four of use, or loss of profits incurred by claims, follows or succession among out of profits incurred and analysis of the services between the claim is based on any of the accordance of the services between the claim is based on any of the accordance and the services between the claim is based on any of the accordance and the services between the claim is based on the services between the claim is a service. Services are claim in the services between the claim is a service between the claim is a servi

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REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

 Received:
 03/24/2017

 Reported:
 03/28/2017

 Project Name:
 SHELL ST#3

 Project Number:
 NONE GIVEN

 Project Location:
 TATUM

 Sampling Date:
 03/23/2017

 Sampling Type:
 Soil

 Sampling Condition:
 Cool & Intact

 Sample Received By:
 Tamara Oldaker

Sample ID: SW 20 (H700785-10)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit.	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	03/27/2017	ND	1.98	98.8	2,00	5,25	
Toluene*	< 0.050	0.050	03/27/2017	ND	1.91	95.7	2,00	5.03	
Ethylbenzene*	< 0.050	0.050	03/27/2017	ND	1.91	95.5	2.00	4.71	
Total Xylenes*	< 0.150	0.150	03/27/2017	ND	5.44	90.7	6.00	4.67	
Total BTEX	<0.300	0.300	03/27/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.8	% 72-148		-					
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/27/2017	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO 06-C10	<10.0	10.0	03/27/2017	ND	181	90.6	200	0.163	
DRO >C10-C28	<10.0	10.0	03/27/2017	ND	189	94.5	200	0.743	
Surrogate: 1-Chlorooctane	88.65	6 25.1-15	8						
Surrogate: 1-Chlorooctadecane	92.45	6 26.8-17	0						

Cardinal Laboratories *=Accredited Analyte

FUNCE NOTE: Usefly and Denages. Contract liability and clients exclusive remark for any claim arising, whether feed to contract or tort, draff to the amount paid by direct for analyses. All disms, including those for negligence and any other cause volunteers that it is desired analysis in writing paid needed by Contract which they Did days after completed of the applicable solvine. In no exercit dail Contract to basis for incidental or consequents demagner, including, whether inhabitation, foreigness informations of or the contract of the services benander by Contract, report and not to report of the contract or the services benander by Contract, report and not be reported or Contract to the services benander by Contract, reported or Contract Contra

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Analytical Results For:

REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

 Received:
 03/24/2017

 Reported:
 03/28/2017

 Project Name:
 SHELL ST#3

 Project Number:
 NONE GIVEN

 Project Location:
 TATUM

Sampling Date: 03/23/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: W 20 (H700785-11)

BTEX 80218	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2017	ND	1.98	98.8	2.00	5.25	
Toluene*	<0.050	0.050	03/27/2017	ND	1.91	95.7	2.00	5.03	
Ethylbenzene*	<0.050	0.050	03/27/2017	ND	1.91	95.5	2.00	4.71	
Total Xylenes*	<0.150	0.150	03/27/2017	ND	5.44	90.7	6.00	4.67	
Total BTEX	<0.300	0.300	03/27/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.89	6 72-148	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/27/2017	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS		1 100			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/27/2017	ND	181	90.6	200	0.163	
DRO >C10-C28	<10.0	10.0	03/27/2017	ND	189	94.5	200	0.743	
Surrogate: 1-Chlorooctane	92.6 %	6 25.1-15	S						
Surrogate: 1-Chlorooctadecane	88.59	6 26.8-17)						

Cardinal Laboratories *=Accredited Analyte

PLOSE NOTE: Limits and towages. Control's ballity and clearly evolutive remay for any clear arising whether based in common or bort, drail to limited to the amount paid by clear for analyses. All clearly evolutions will be the evolution of the production of the applicable service. In increase, the control to limit to increase the limits of the production, clear of use, or loss of pottle locations by clearly and the completion of the applicable service. The control to limit to the performance of the services behavior by Control, regarders of whether such clear to be such as a position of the services behavior to th

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REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E, DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

 Received:
 03/24/2017

 Reported:
 03/28/2017

 Project Name:
 SHELL 5T#3

 Project Number:
 NONE GIVEN

 Project Location:
 TATUM

 Sampling Date:
 03/23/2017

 Sampling Type:
 Soil

 Sampling Condition:
 Cool & Intact

 Sample Received By:
 Tamara Oldaker

Sample ID: NW 20 (H700785-12)

BTEX 80218	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2017	ND	1.98	98.8	2.00	5.25	
Toluene*	<0.050	0.050	03/27/2017	ND	1.91	95.7	2.00	5.03	
Ethylbenzene*	<0.050	0.050	03/27/2017	ND	1.91	95.5	2.00	4.71	
Total Xylenes*	<0.150	0.150	03/27/2017	ND	5.44	90.7	6.00	4.67	
Total BTEX	<0.300	0.300	03/27/2017	ND					
Surrogate: 4-Bromofluorobensene (PID	98.69	6 72-148	,						
Chloride, SM4500CI-B	mg/	mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/27/2017	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS				777	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/27/2017	ND	181	90.6	200	0.163	
DRO >C10-C28	<10.0	10.0	03/27/2017	ND	189	94.5	200	0.743	
Surrogate: 1-Chlorooctane	92.99	6 25,1-15	8						
Surrogate: 1-Chlorooctadecane	96.69	6 26.8-17	0						

Cardinal Laboratories

*=Accredited Analyte

RINES WITH: Liability and burnages. Contracts initially and clients ecousies represely the any clien strong, whether based or contract or tort, dail be limbed to the amount paid by client or transparent all during, including those for regispers and any other clause whethere that he deemed easier clients reading and clients whether that is not executed by clients whether that the product complete service. In to execute dail be based to the product contract of the service that contracts or contracts clients and clients that the product contracts and the service that contracts of the service thirt contracts or delevate and product contracts and the service that contracts or contracts and the service that contracts and the service that contracts and the service that contracts are contracts and the service that contracts are contracted and the service that the service that contracts are contracted and the service that the servic

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REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

 Received:
 03/24/2017

 Reported:
 03/28/2017

 Project Name:
 SHELL ST#3

 Project Number:
 NONE GIVEN

 Project Location:
 TATUM

Sampling Date: 03/23/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CENTER 20 (H700785-13)

BTEX 80218	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2017	ND	1.98	98.8	2.00	5.25	
Toluene*	<0.050	0.050	03/28/2017	ND	1.91	95.7	2.00	5.03	
Ethylbenzene*	<0.050	0.050	03/28/2017	ND	1.91	95.5	2.00	4.71	
Total Xylenes*	<0.150	0.150	03/28/2017	ND	5.44	90.7	6.00	4.67	
Total BTEX	<0.300	0.300	03/28/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.1	% 72-148							
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/27/2017	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte:	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/27/2017	ND	181	90.6	200	0.163	
DRO >C10-C28	<10.0	10.0	03/27/2017	ND	189	94.5	200	0.743	
Surrogate: 1-Chiorooctane	82.9	% 25.1-15	8						
Surrogate: 1-Chiorooctadecane	84.3	% 26.8-17	0						

Cardinal Laboratories

*=Accredited Analyte

RIDER WITT: Limits and Consigne. Conducts labels and clearly analysis remarks for any clear strain, whether based in contract or ton, does be instead to the annual point by clear for analysis. We does not seek upon the product of the applicable series. In to seek dual Contral be based in the colored or consequents demands, in the series dual Contral be based in the colored or consequents demands, in the series dual Contral be based in the colored or consequents demands, which is the colored or the series dual Contral be based in the performance of the series between the color of ports. Contral colored colored colored or colored co

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Phone #575-8631-0131 Address: 47 E Dickens Rd Project Location: TO, fum ompany Name He public backhoe Service roject Name: Shell St #3 oject # Lab I.D Sampler - UPS - Bus - Other Delivered By: (Circle One) elinquished By 101 East Marland, Hobbs. NM 88240 (575) 393-2326 FAX (575) 393-2476 8-10 2000000 Sample I.D. (JOYCIA Fax # 575-396-7782 Project Owner 1994-17 1998-80 State NM Zp. 88 260 Time 00 COOP COOP TIGHAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER Cool Intact OIL SLUDGE Alln: Joe Tovar OTHER P.O. # State: NM Zip. 88302 City: Roswell Address: Po Box 1518 company Read + Stevens ACID/BASE ICE/COOL CHECKED BY: To. #75 BILL TO OTHER 3/23 DATE 51:3 12:05 10:57 1:50 H:50 Phone Result Fax Result REMARKS TIME TPH XX 77 X D Yes D No XXXX XX XXXX XXXX Add'l Phone Add'l Fax # ANALYSIS REQUEST

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2325



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Relinquished By: Relinquished By: Relinquished By: Sampler - UPS - Bus - Other.	Project Manager: Extr. GARCETA Address: 47 & Dickers & A City Louington Phone 8: Project Name: Shell St #3 Project Location—+ Atum Sampler Name: Manis Garceta Project Location—+ Atum Sampler Name: Manis Garceta Project Location—+ Atum Sampler Name: Manis Garceta Project Location— Sampler Name: Manis Garceta Project Location—+ Atum Sampler Name: Manis Garceta Project Location—+ Atum Sampler Name: Manis Garceta Project Location—+ Atum Sample I.D. Lab I.D. Sample I.D. J. Center 36 W. 30 N. 30	_ [
Time Date Received By: Received By: Sample Condition Checked By: Received By: R	Project Owner: State: JM Zip \$826 o Attn: JC Fax # \$7 \$5 26 o Address: Project Owner: Project Owner: State: JW Fax # \$7 \$5 26 o Address: GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE (COOL)	BILL TO
Tried to Call Customer Twice on NW2 Sample Tip 3-24-17 @ 14:00 hes	XXX TPH XXX Chloride XXX BTEX	ANALTSIS REGICES

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



March 28, 2017

ERIC GARCIA
REPUBLIC BACKHOE SERVICES
47 E. DICKENS RD
LOVINGTON, NM 88260

RE: SHELL ST#3

Enclosed are the results of analyses for samples received by the laboratory on 03/24/17 13:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

Page 1 of 17



Analytical Results For:

REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

 Received:
 03/24/2017

 Reported:
 03/28/2017

 Project Name:
 SHELL ST#3

 Project Number:
 NONE GIVEN

 Project Location:
 TATUM

Sampling Date: 03/24/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: NS 1 - 10 (H700785-01)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2017	ND	1.98	98.8	2.00	5.25	
Toluene*	0.072	0.050	03/27/2017	ND	1.91	95.7	2.00	5.03	
Ethylbenzene*	<0.050	0.050	03/27/2017	ND	1.91	95.5	2.00	4.71	
Total Xylenes*	<0.150	0.150	03/27/2017	ND	5.44	90.7	6.00	4.67	
Total BTEX	<0.300	0.300	03/27/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID)	98.2	36 72-148							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/27/2017	ND	432	108	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/27/2017	ND	181	90.6	200	0.163	
DRO >C10-C28	<10.0	10.0	03/27/2017	ND	189	94.5	200	0.743	
Surrogate: 1-Chlorooctane	89.9	36 25.1-151	,						

Cardinal Laboratories *=Accredited Analyte

MAIN 1979. Untilly set Compan. Certain heitig set shorts aminon monty to any size array, whethe tand in model or lad, shall be the smart paid by short for anythm. If store, including them for negligious and any offer more delicates that is desired and solid and in order of more lab positive and the store of the applicate array. In a most shall desired in talk to include it array, making a shall be latered to be substituted in a more and a shall desired to be talk to be related to any the store of the application and the more allowables, that of any is to a particular and the more allowables, that of any is to a particular and the more allowable array and the store of the application of the array of the store of the array of the array of the store of the array of

Celley & Keine

Surrogate: I-Chlorooctadecane

93.7 %

Celey D. Keene, Lab Director/Quality Manager

Page 2 of 17





REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

 Received:
 03/24/2017

 Reported:
 03/28/2017

 Project Name:
 SHELL ST#3

 Project Number:
 NONE GIVEN

 Project Location:
 TATUM

Sampling Date: Sampling Type: Sampling Condition: Sample Received By: 03/24/2017 Soil Cool & Intact Tamara Oldaker

Sample ID: NS 2 - 10 (H700785-02)

STEX 80218	mg/kg		Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	03/27/2017	ND	1.98	96.8	2.00	5.25	
Toluene*	< 0.050	0.050	03/27/2017	ND	1.91	95.7	2.00	5.03	
Ethylbenzene*	< 0.050	0.050	03/27/2017	ND	1.91	95.5	2.00	4.71	
Total Xylenes*	< 0.150	0.150	03/27/2017	ND	5.44	90.7	6.00	4.67	
Total BTEX	<0.300	0.300	03/27/2017	ND					
Surrogate. 4-Bromofluorobenzene (PIL)	98.4 3	6 72-148	r						
Chloride, SM4500CI-B	mg/l	kg .	Analyze	d By: HM					

Chloride, SM4500CI-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/27/2017	ND	432	108	400	3.77	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10,0	03/27/2017	ND	181	90.6	200	0.163	
DRO >C10-C28	<10.0	10.0	03/27/2017	ND	189	94.5	200	0.743	

 Surrogate: 1-Chloroctane
 84.4 %
 25.1-158

 Surrogate: 1-Chloroctadecane
 79.0 %
 26.8-170

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Page 3 of 17



Analytical Results For:

REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

 Received:
 03/24/2017

 Reported:
 03/28/2017

 Project Name:
 SHELL ST#3

 Project Number:
 NONE GIVEN

 Project Location:
 TATUM

Sampling Date: Sampling Type: Sampling Condition: Sample Received By:

03/24/2017 Soil Cool & Intact Tamara Oldaker

Sample ID: NS 3 - 10 (H700785-03)

BTEX 80218	mig/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2017	ND	1.98	98.8	2.00	5.25	
Toluene*	<0.050	0.050	03/27/2017	ND	1.91	95.7	2.00	5.03	
Ethylbenzene*	<0.050	0.050	03/27/2017	ND	1.91	95.5	2.00	4.71	
Total Xylenes*	<0.150	0.150	03/27/2017	ND	5.44	90.7	6.00	4.67	
Total BTEX	< 0.300	0.300	03/27/2017	ND					

Surrogaie: 4-Bromofluorobensene (PID Chloride, 5M4500CI-B	97.6 mg	62 (2.55)		d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/27/2017	ND	432	108	400	3.77	
TPH 8015M	PH 8015M mg/kg		Analyzed By: M5			- 11/			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/27/2017	ND	181	90.6	200	0.163	
DRO >C10-C28	<10.0	10.0	03/27/2017	ND	189	94.5	200	0.743	

 Surrogate: 1-Chloroociane
 86.8 %
 25.1-138

 Surrogate: 1-Chloroociadecane
 92.7 %
 26.8-170

Cardinal Laboratories

*=Accredited Analyte

College France

Celey D. Keene, Lab Director/Quality Manager

Page 4 of 17



Analytical Results For:

REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

 Received:
 03/24/2017

 Reported:
 03/28/2017

 Project Name:
 SHELL ST#3

 Project Number:
 NONE GIVEN

 Project Location:
 TATUM

Sampling Date: Sampling Type: Sampling Condition: Sample Received By: 03/24/2017 Soil Cool & Intact Tamara Oldaker

Sample ID: NS 4 - 10 (H700785-04)

BTEX 8021B	mg/kg		Analyzed By: M5						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	03/27/2017	ND	1.98	98.8	2.00	5.25	
Toluene*	<0.050	0.050	03/27/2017	ND	1.91	95.7	2.00	5.03	
Ethylbenzene*	< 0.050	0.050	03/27/2017	ND	1.91	95.5	2.00	4.71	
Total Xylenes*	<0.150	0.150	03/27/2017	ND	5.44	90.7	6.00	4.67	
Total BTEX	< 0.300	0.300	03/27/2017	ND					

Surrogate: 4-Bromoftworobenzene (PID Chloride, 5M4500CI-B	98.8 mg	% 72-148 /kg		ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/27/2017	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS		- 44			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/27/2017	ND	181	90.6	200	0.163	
DRO >C10-C28	<10.0	10.0	03/27/2017	ND	189	94.5	200	0.743	

 Surrogate: 1-Chloroctane
 85,5 %
 25,1-138

 Surrogate: 1-Chloroctadecane
 86,5 %
 26,8-170

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

 Received:
 03/24/2017

 Reported:
 03/28/2017

 Project Name:
 SHELL ST#3

 Project Number:
 NONE GIVEN

 Project Location:
 TATUM

Sampling Date: 03/23/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: N 20 (H700785-05)

BTEX 8021B	mg	mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPO	Qualifie
Benzene*	< 0.050	0.050	03/27/2017	ND	1.98	98.8	2.00	5.25	
Toluene*	< 0.050	0.050	03/27/2017	ND	1.91	95.7	2.00	5.03	
Ethylbenzene*	< 0.050	0.050	03/27/2017	ND	1.91	95.5	2.00	4.71	
Total Xylenes*	< 0.150	0.150	03/27/2017	ND	5.44	90.7	6.00	4.67	
Total BTEX	< 0.300	0.300	03/27/2017	ND					

Chloride, SM4500CI-B	mg			Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/27/2017	ND	432	108	400	3.77	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/27/2017	ND	181	90.6	200	0.163	
DRO >C10-C28	<10.0	10,0	03/27/2017	ND	189	94.5	200	0.743	

 Surregate. I-Chlorocetane
 91,9 %
 25,1-138

 Surregate. I-Chlorocetadecane
 94.4 %
 26,8-170

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Page 6 of 17



Analytical Results For:

REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

Received: 03/24/2017 Sampling Date: 03/23/2017 Reported: 03/28/2017 Sampling Type: Soil Cool & Intact SHELL ST#3 Sampling Condition: Project Name: NONE GIVEN Sample Received By: Tamara Oldaker Project Number: Project Location: TATUM

Sample ID: NE 20 (H700785-06)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2017	ND	1.98	98.8	2.00	5.25	
Toluene*	<0.050	0.050	03/27/2017	ND	1.91	95.7	2.00	5.03	
Ethylbenzene*	< 0.050	0.050	03/27/2017	ND	1.91	95.5	2.00	4.71	
Total Xylenes*	< 0.150	0.150	03/27/2017	ND	5.44	90.7	6.00	4.67	
Total BTEX	<0.300	0.300	03/27/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID)	98.4	36 72-148	:						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/27/2017	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/27/2017	ND	181	90.6	200	0.163	
DRO >C10-C28	<10.0	10.0	03/27/2017	ND	189	94.5	200	0.743	
Surrovate: I-Chlorocetane	88.6	36 25.1-15	s						

Cardinal Laboratories *=Accredited Analyte

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Surrogate: I-Chlorooctadecane

91.7 %

26.8-170

Celey D. Keene, Lab Director/Quality Manager

Page 7 of 17



Analytical Results For:

REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

 Received:
 03/24/2017

 Reported:
 03/28/2017

 Project Name:
 SHELL ST#3

 Project Number:
 NONE GIVEN

 Project Location:
 TATUM

Sampling Date: 03/23/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: E 20 (H700785-07)

TEX 8021B mg/kg		mg/kg Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPO	Qualifier
Benzene*	< 0.050	0.050	03/27/2017	ND	1.98	98.8	2.00	5.25	
Toluene*	< 0.050	0.050	03/27/2017	ND	1.91	95.7	2.00	5.03	
Ethylbenzene*	< 0.050	0.050	03/27/2017	ND	1.91	95.5	2.00	4.71	
Total Xylenes*	< 0.150	0.150	03/27/2017	ND	5.44	90.7	6.00	4.67	
Total BTEX	< 0.300	0.300	03/27/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIE Chloride, 5M4500CI-B	98.4 mg			d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPO	Qualifier
Chloride	<16.0	16.0	03/27/2017	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS		-			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/27/2017	ND	181	90.6	200	0.163	
DRO >C10-C28	<10.0	10.0	03/27/2017	ND-	189	94.5	200	0.743	

 Surrogate: 1-Chlorocetane
 94.0 %
 25.1-158

 Surrogate: 1-Chlorocetadecane
 93.6 %
 26.8-170

Cardinal Laboratories

*=Accredited Analyte

MINI 10% with set temps. Extent with not sent mines used, he say two every wide tand a metal or let, and it metal is the metal and the require. If some mining them he suppose and my offer some obtainers that he desert metal control control is before with the [32] days after required of the applications. It is no metal destruction in the individual or assumption design, which middles, became obtained on a mining of mining the metal is and in the problem. It is problem to the problem of the problem

College France

Celey D. Keene, Lab Director/Quality Manager

Page 8 of 17



Analytical Results For:

REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

 Received:
 03/24/2017

 Reported:
 03/28/2017

 Project Name:
 SHELL ST#3

 Project Number:
 NONE GIVEN

 Project Location:
 TATUM

Sampling Date: 03/23/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SE 20 (H700785-08)

and d Rosen Combanas (RIT

BTEX 8021B	mg	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	03/27/2017	ND	1.98	98.8	2.00	5.25	
Toluene*	< 0.050	0.050	03/27/2017	ND	1.91	95.7	2.00	5.03	
Ethylbenzene*	< 0.050	0.050	03/27/2017	ND	1.91	95.5	2.00	4.71	
Total Xylenes*	< 0.150	0.150	03/27/2017	ND	5.44	90.7	6.00	4.67	
Total BTEX	<0.300	0.300	03/27/2017	ND					

Surrogale: 4-Bromofluoropenzene (FIL	90.9	36 /2-148							
Chioride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/27/2017	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS		- 17			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	89	% Recovery	True Value QC	RPD	Qualifier
GRO 06-C10	<10.0	10.0	03/27/2017	ND	181	90.6	200	0.163	
DRO >C10-C28	<10.0	10.0	03/27/2017	ND	189	94.5	200	0.743	
election and	100000	1 73 1	200,010			-	47.5		

 Surrogate. J-Chlorocetane
 85.0 %
 25.1-158

 Surrogate. J-Chlorocetadecane
 86.2 %
 26.8-170

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

 Received:
 03/24/2017

 Reported:
 03/28/2017

 Project Name:
 SHELL ST#3

 Project Number:
 NONE GIVEN

 Project Location:
 TATUM

mg/kg

Sampling Date: 03/23/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S 20 (H700785-09)

BTEX 80218

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	03/27/2017	ND	1.98	98.8	2.00	5.25	
Toluene*	< 0.050	0.050	03/27/2017	ND	1.91	95.7	2.00	5.03	
Ethylbenzene*	<0.050	0.050	03/27/2017	ND	1.91	95.5	2.00	4.71	
Total Xylenes*	< 0.150	0.150	03/27/2017	ND	5.44	90.7	6.00	4.67	
Total BTEX	<0.300	0.300	03/27/2017	ND					
Surrogase: 4-Bromofluorobenzene (PIL	98.8	% 72-148							
Chloride, 5M4500CI-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/27/2017	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/27/2017	ND	181	90.6	200	0.163	
DRO >C10-C28	<10.0	10.0	03/27/2017	ND	189	94.5	200	0.743	
Surregate: 1-Chlorocetane	90.6	25.1-15	8						
Surregate: I-Chlorocatadecane	92.5	26.8-17	0						

Analyzed By: M5

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

 Received:
 03/24/2017

 Reported:
 03/28/2017

 Project Name:
 SHELL ST#3

 Project Number:
 NONE GIVEN

 Project Location:
 TATUM

Sampling Date: Sampling Type: Sampling Condition: Sample Received By:

03/23/2017 Soil Cool & Intact Tamara Oldaker

Sample ID: SW 20 (H700785-10)

BTEX 80218	mg	/kg	Analyze	d By: M5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	03/27/2017	ND	1.98	98.8	2.00	5.25	
Toluene*	< 0.050	0.050	03/27/2017	ND	1.91	95.7	2.00	5.03	
Ethylbenzene*	< 0.050	0.050	03/27/2017	ND	1.91	95.5	2.00	4.71	
Total Xylenes*	< 0.150	0.150	03/27/2017	ND	5.44	90.7	6.00	4.67	
Total BTEX	< 0.300	0,300	03/27/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIE Chloride, SM4500CI-B	98.8 mg	96 72-148 /kg		ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/27/2017	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: M5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO 05-C10	<10.0	10.0	03/27/2017	ND	181	90.6	200	0.163	
DRO >C10-C28	<10.0	10.0	03/27/2017	ND	189	94.5	200	0.743	
177, 17			100			1.7			

 Surrogate: J-Chlorocetane
 88.6 %
 25.1-158

 Surrogate: J-Chlorocetadecane
 92.4 %
 26.8-170

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260 Fax To: NONE

 Received:
 03/24/2017

 Reported:
 03/28/2017

 Project Name:
 SHELL ST#3

 Project Number:
 NONE GIVEN

 Project Location:
 TATUM

Sampling Date: 03/23/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: W 20 (H700785-11)

BTEX 80218	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2017	ND	1.98	98.8	2.00	5.25	
Taluene*	<0.050	0.050	03/27/2017	ND	1.91	95.7	2.00	5.03	
Ethylbenzene*	<0.050	0.050	03/27/2017	ND	1.91	95.5	2.00	4.71	
Total Xylenes*	< 0.150	0.150	03/27/2017	ND	5.44	90.7	6.00	4.67	
Total BTEX	< 0.300	0.300	03/27/2017	ND					

Surrogate 4-Bromofluorobenzene (PIC 97.8 % 72-148 Chloride, SM4500CI-B mg/kg Analyzed By: HM Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Analyte Dualifier 400 Chloride <16.0 16.0 03/27/2017 ND 432 108 3.77 TPH 8015M mg/kg Analyzed By: MS RPD Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC Dualifler <10.0 10.0 03/27/2017 ND 181 90.6 200 0.163 GRO C6-C10 03/27/2017 ND 189 DRO >C10-C28 <10.0 10.0 94.5 200 0.743

 Surrogate: 1-Chlorooctane
 92.5 %
 25.1-138

 Surrogate: 1-Chlorooctadecane
 88.5 %
 26.8-170

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

REPUBLIC BACKHOE SERVICES ERIC GARCIA 47 E. DICKENS RD LOVINGTON NM, 88260

Fax To: NONE

 Received:
 03/24/2017

 Reported:
 03/28/2017

 Project Name:
 SHELL ST#3

 Project Number:
 NONE GIVEN

 Project Location:
 TATUM

Sampling Date: 03/23/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: NW 20 (H700785-12)

STEX 80218	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2017	ND	1.98	98.8	2.00	5.25	
Toluene*	< 0.050	0.050	03/27/2017	ND	1.91	95.7	2.00	5.03	
Ethylbenzene*	< 0.050	0.050	03/27/2017	ND	1.91	95.5	2.00	4.71	
Total Xylenes*	< 0.150	0.150	03/27/2017	ND	5.44	90.7	6.00	4.67	
Total BTEX	< 0.300	0.300	03/27/2017	ND					

98.6	36 72-143							
mg	/kg	Analyze	d By: HM					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<16.0	16.0	03/27/2017	ND	432	108	400	0.00	
mg	/kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	03/27/2017	ND	181	90.6	200	0.163	
<10.0	10.0	03/27/2017	ND	189	94.5	200	0.743	
	Result <16.0 mg, Result <10.0	mg/kg	Result Reporting Limit Analyzed	mg/kg Analyzed By: HM Result Reporting Limit Analyzed Method Blank <16.0	mg/kg Analyzed By: HM Result Reporting Limit Analyzed Method Blank BS <16.0	mg/kg Analyzed Blank BS % Recovery ≪16.0 16.0 03/27/2017 ND 432 108 mg/kg Analyzed By: MS Result Reporting Umit Analyzed Method Blank BS % Recovery <10.0	mg/kg Analyzed By: HM Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC <16.0	mg/kg Analyzed By: HM Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD <16.0

 Surregate: I-Chlorocetane
 92.9 %
 25.1-158

 Surregate: I-Chlorocetadecane
 96.6 %
 26.8-170

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

REPUBLIC BACKHOE SERVICES
ERIC GARCIA
47 E. DICKENS RD
LOVINGTON NM, 88260
Fax To: NONE

03/24/2017 03/23/2017 Received: Sampling Date: Reported: 03/28/2017 Sampling Type: Soil SHELL ST#3 Sampling Condition: Cool & Intact Project Name: Project Number: NONE GIVEN Sample Received By: Tamara Oldaker TATUM Project Location:

Sample ID: CENTER 20 (H700785-13)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD.	Qualifier
Benzene*	< 0.050	0.050	03/28/2017	ND	1.98	98.8	2.00	5.25	
Toluene*	<0.050	0.050	03/28/2017	ND	1.91	95.7	2.00	5.03	
Ethylbenzene*	<0.050	0.050	03/28/2017	ND	1.91	95.5	2.00	4.71	
Total Xylenes*	<0.150	0.150	03/28/2017	ND	5.44	90.7	6.00	4.67	
Total BTEX	<0.300	0.300	03/28/2017	ND					

Surrogate: 4-Bromofluorobenzone (PIE 95.1 % 72-148 Chloride, SM4500CI-B Analyzed By: HM mg/kg Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Analyte Qualifier 400 <16.0 ND 432 108 Chloride 16.0 03/27/2017 0.00 TPH 8015M Analyzed By: MS mg/kg Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Analyte Qualifier <10.0 10.0 03/27/2017 ND 181 90.6 GRO C6-C10 200 0.163 10.0 03/27/2017 ND 189 94.5 200 0.743 DRO >C10-C28 <10.0

 Surrogate: 1-Chlorocetane
 82.9 %
 25.1-158

 Surrogate: 1-Chlorocetadecane
 84.3 %
 26.8-170

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference.

Samples not received at proper temperature of 6°C or below.

Chauffident time to reach temperature.

Chloride by SM4500CHB does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

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