REPUBLIC BACKHOE SERVICE LLC

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

May 10, 2017

Dear Olivia Yu,

Subject: Spill Summary and Remediation Work Plan Location: Read & Stevens Inc. Shell State #3 30-025-23014 1RP-4582

Read & Stevens Inc. has contracted Republic Backhoe Service LLC to perform site assessment and remediation services at the above referenced location. The results of our spill summary and proposed remediation activities consist of the following.

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 State #3 location with the GPS Coordinates as follows: Latitude: 33.370575 North Longitude: -103.652344West. See Site Map attached in Appendix I.

Republic Backhoe Service LLC 47 E. Dickens Lovington, NM 88260 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. See Appendix II for groundwater data and Appendix III for water well map.

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

Depth to ground water:56' (50'-99')20Wellhead Protection Area:> 1000'0Distance 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 released was discovered on January 24, 2017.

Actions Taken

Figure 1 (Appendix I) illustrates the dimensions of spill site. 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. As of January 31, 2017 a total of 360 yards of contaminated soil had been hauled to Gandy Marly Inc (See Appendix VII). 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 majority of the contaminated soil has been excavated and hauled off the location.

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 and are summarized in Appendix

IV. 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' and are summarized in Appendix V. 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.

Laboratory and Field Sample Results

Sample ID	Date	Depth	Chlorides (PPM)	BTEX	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	-	-	-	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	4'	64	-	-	-	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	BTEX	TPH	TPH	Sample
		•	(PPM)		(mg/kg) GRO	(mg/kg) DRO	Туре
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)	BTEX	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	Date	Depth	Chlorides (PPM)	BTEX	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)	BTEX	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 NW9-C).

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).

Proposed Work Plan

We would like the approval of the New Mexico Oil Conservation Division and New Mexico State Land Office to proceed with remediation activities at the Shell State #3. We are proposing to excavate Spill A to the following depths:

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

We are proposing to excavate Spill B to the following depths:

Sample ID	Depth (bgs)	20 mil liner
NS1	2'	No
NS2	1′	No
NS3	1′	No
NS4	1′	No

The contaminated material will be hauled to Gandy Marley Inc (an approved disposal site). Then will backfill both areas Spill Site A and B with top soil. Backfill will be hauled in from Mr. Pearce's dirt pond located at $33.3777345^{\circ} N$, $-103.634175^{\circ} W$ and will be mixed with top soil hauled in from location at $33.3879^{\circ}N$, $-103.6219^{\circ}W$.

The mixture ratio will be two yards of top soil for every one yard of pond bottoms when backfilling in areas with depths of more than one feet. The remaining 1' will be

backfilled with 100 % top soil. For example in the Center and Northwest sample points where excavation will be 4', we will install a 20 mil liner and backfill the bottom 3' with top soil and pond bottom mixture (2:1). The remaining 1' will be back filled with top soil. In areas where the excavation depth is 1' top soil will only be used to backfill the area.

Will seed the area with an appropriate seed mixture.

Revegetation and Noxious Weed Management Plans

Seed Mixture: Warm Season SSR Grass Seed Mix 350 (See Appendix IX)

Seeding Rate/ acre: 20 lbs/acre

Timing of Dispersal: Mid to late May 2017

Method of Dispersal: First, the area will be disc. Second, the seed will be mechanically broadcasted. Third, will run the disc over the area to cover the seed. Finally, to best ensure seed germination success the area will be watered after seeding. Photos will be taken of the seed mixture bags, and of all seeding activities.

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

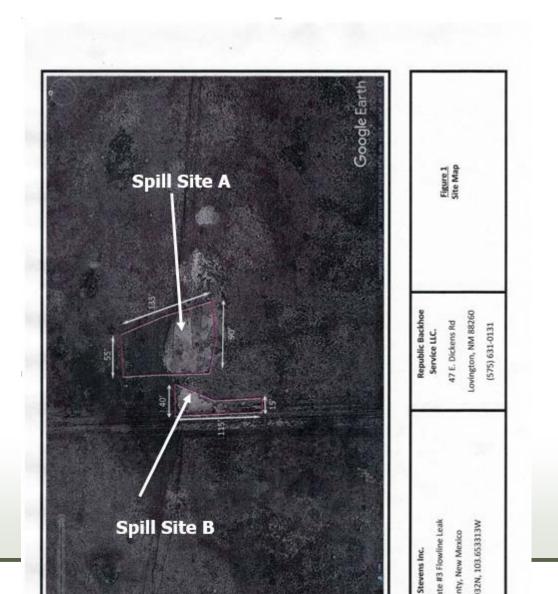
-Russian Knapweed

IF you have any questions please call (575) 631-1031.

Eric Garcia Republic Backhoe Services LLC

Appendix I

Site Map



Appendix II

Ground Water Data

😫 Mozilla Firefox

0 nmwrrs.ose.state.nm.us/nmwrrs/ReportProxy/queryData=["report"%3A"waterColumn"%2C%0A"BasinDiv"%3A"true"%2C%0A"Basin"%3A"%2C%0A"County"%3A"%2C%0A"Sub_basin"%3A"%2C%0A"UsageDi



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

Easting (X): 625278.71	UTMNAD83 Radius Search (in meters):	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	L 09506	L 12006 POD2	L 10817	POD Number	(A CLW###### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)
178.71	Search (in m											R					R	R					Code 1	(R=POD has been replaced, O=orphaned, C=the file is closed)
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						623711	626919	623643	626618	625748	624546	624546	625346	624024	624230	626234	625737	625737	625334	625435	625386	625418	x	4
Radius: 2000					A	3694356*	3694188*	3692636*	3694083*	3691758*	3691950*	3691950*	3691755*	3693853*	3693254*	3692870*	3692363	3692363	3692360*	3692461*	3692537	3693669*	Y	=SE) (NAD83 UTM in meters)
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			83 feet	48 feet	57 feet	50	58		48	56	58	58	60		60	60	83	50	51	50	60	60	Water DistanceDepthWellDepthWater Column	(In feet)
			-	1	-	10	72		57	80	64	62	80		90	35	77	70	69	70	95	8	Water Column	

nmwrs, ose, state, nm, us/nmwrs/ReportDispatcher/type=PODGHTML&name=PodGroundSummaryHTML: jnml&basin=L&nbr=10794&suffix=1076&suffix=1

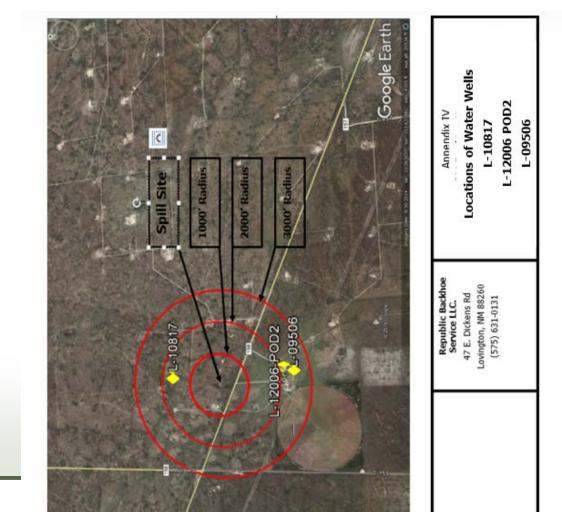
The data is furnished by the VAROSE ISC and is accepted by the recipient with the expressed understanding that the OSE ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data

WATER COLUMNV AVERAGE DEPTH TO WATER

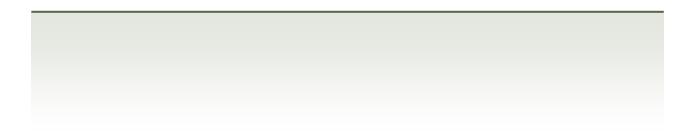
3/5/17 2:24 PM

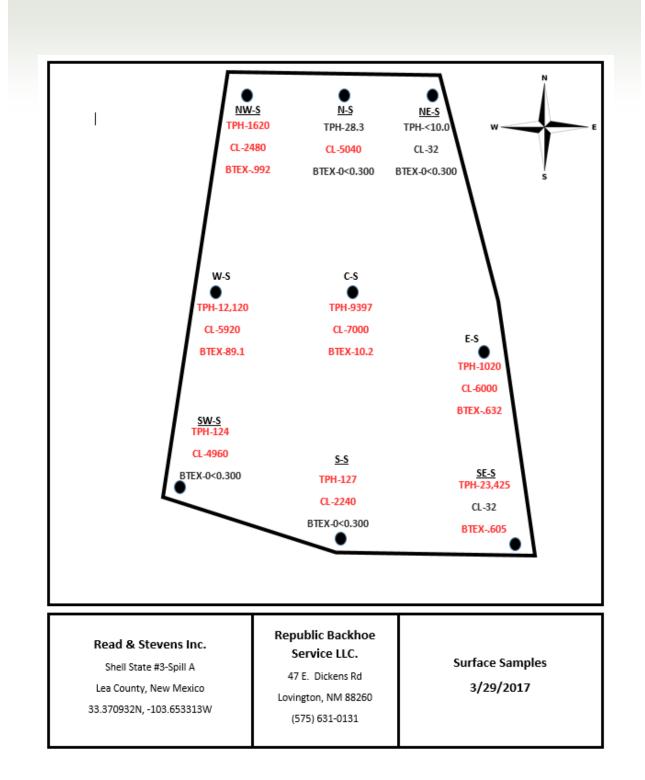
*UTM location was derived from PLSS - see Help

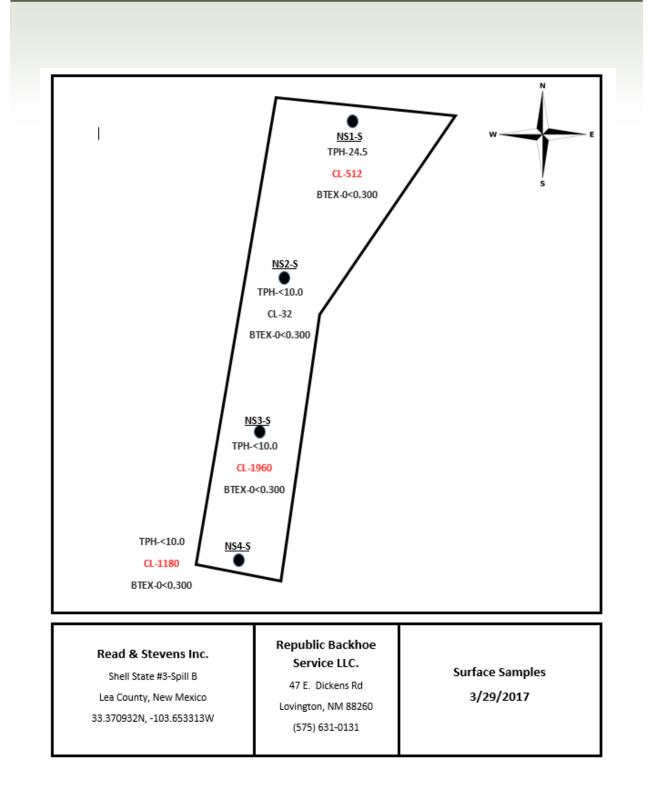
Appendix III Water Wells Map



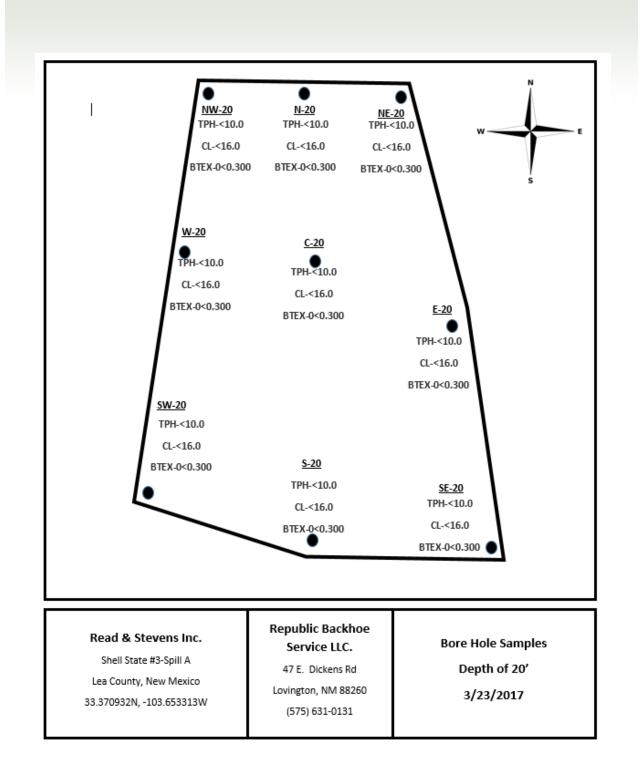
Appendix IV Surface Samples/Results

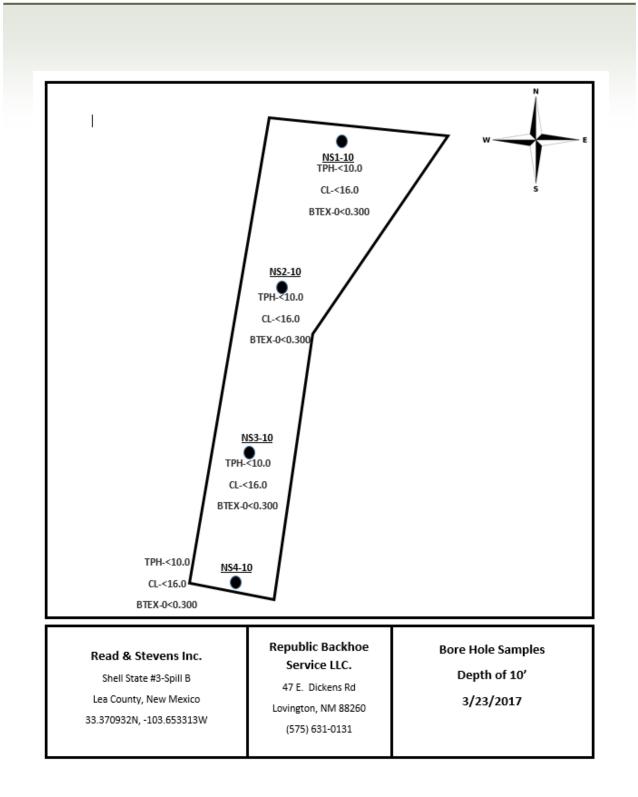




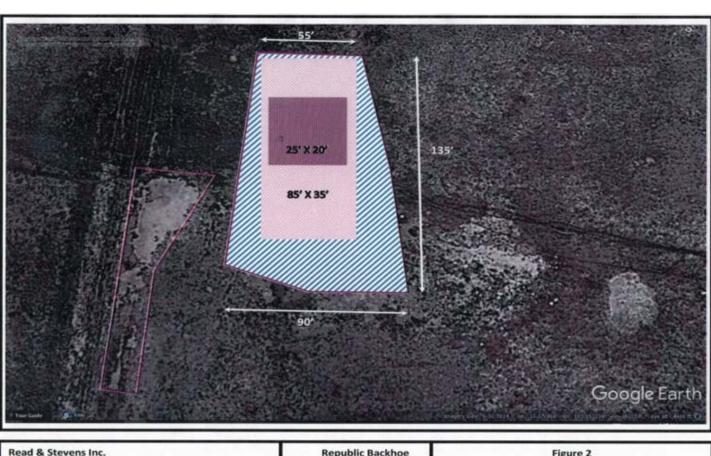


Appendix V Bore Hole Samples/Results





Appendix VI Site Excavation



Read & Stevens Inc.	Republic Backhoe	Figure 2	
Shell State #3 Flowline Leak	Service LLC.	Excavation Map	
Lea County, New Mexico	47 E. Dickens Rd	Boundary Line	
33.370932N, 103.653313W	Lovington, NM 88260	Extent of Excavation (1' Deep) Extent of Excavation (2'Deep)	
	(575) 631-0131	Extent of Excavation (3' Deep)	

Appendix VIII C-141 District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Oil Conservation Division Form C-141 Revised August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

1220 South St. Francis Dr. Santa Fe, NM 87505

Release Notification and Corrective Action

		OPERATO	R	X Initial Report	Final Report
Name of Company	Read and Stevens Inc	Contact Joe	Tovar		
Address P.O Bo	x 1518 Roswell, Nm 88202	Telephone No.	(575) 390-2425		
Facility Name	Sheli State #3	Facility Type	Oil Well/Flowline		
Surface Owner	State	Mineral Owner State		API No. 30 0 2	7523014

	LOCATION OF RELEASE												
Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County					
с	18	115	33E	660	ENL	2097	FWL	LEA					

Latitude 33.371284 Longitude-103.655661

Release Oil and Produced of Release Flowline Leak mediate Notice Given?	4 Water							
	A AARIED.	Volume of Release 6 Oil 8 PW	Volume Recovered 0					
mediate Notice Given?		Date and Hour of Occurrence1/22/17	Date and Hour of Discovery 1/24/17@ 4F					
	and the second second second	If YES, To Whom?						
	Yes 🕅 No 🗌 Not Required	No						
om? N/A		Date and Hour N/A						
Vatercourse Reached?		If YES, Volume Impacting the Wat	ercourse.					
	Yes 🕅 No	N/A						
tercourse was Impacted, Descr	no runy.							
e Cause of Problem and Reme	And Andrew Technical B							
		lack big than turned off and shut in the	e well. A crew was called out to the site and					
intract pumper noticed the nowi of the ruptured flowline.	ne leak approx 730 east of the pump	plack. He then turned on and shut in the	e well. A crew was called out to the site and					
de-								
e Area Affected and Cleanup /	Action Taken *							
ted soil from the affected area to G n to Cardinal Labs on 1-31-2017. Certify that the information gi ons all operators are required t tealth or the environment. The	andy Marley. As of 2-1-17 a total of 380 y ven above is true and complete to the o report and/or file certain release a s acceptance of a C-141 report by the	ands had been havled off to Gandy-Marley to he best of my knowledge and understa otifications and perform corrective act c NMOCD marked as "Final Report" of	nc. Also, began to delineate the spill site, and sai and that pursuant to NMOCD rules and tions for releases which may endanger does not relieve the operator of liability					
ted soil from the affected area to G n to Cardinal Labs on 1-31-2017. certify that the information g ons all operators are required t ealth or the environment. The heir operations have failed to a	andy Marley. As of 2-1-17 a total of 380 y (ven above is true and complete to the or report and/or file certain release n acceptance of a C-141 report by the adequately investigate and remediat	ands had been haved off to Gandy-Marley to he best of my knowledge and understa otifications and perform corrective act e NMOCD marked as "Final Report" e contamination that pose a threat to g	nc. Also, began to delineate the spill site, and sar and that pursuant to NMOCD rules and tions for releases which may endanger does not relieve the operator of liability round water, surface water, human health					
ted soil from the affected area to G n to Cardinal Labs on 1-31-2017. certify that the information g ons all operators are required t ealth or the environment. The heir operations have failed to a	wen above is true and complete to the organization of a Complete to the organization of a Co-141 report by the dequately investigate and remediat ICD acceptance of a Co-141 report by the dequately investigate and remediation of a Co-141 report of a Co-141 repo	ands had been havled off to Gandy-Marley to he best of my knowledge and understa otifications and perform corrective act c NMOCD marked as "Final Report" of	nc. Also, began to delineate the spill site, and san ind that pursuant to NMOCD rules and tions for releases which may endanger does not relieve the operator of liability round water, surface water, human health					
ted soil from the affected area to 6 n to Cardinal Labs on 1-31-2017. certify that the information gi ons all operators are required t icealth or the environment. The heir operations have failed to in wironment. In addition, NMC	wen above is true and complete to the organization of a Complete to the organization of a Co-141 report by the dequately investigate and remediat ICD acceptance of a Co-141 report by the dequately investigate and remediation of a Co-141 report of a Co-141 repo	ands had been havled off to Gandy-Marley li he best of my knowledge and understa otifications and perform corrective act e NMOCD marked as "Final Report" (e contamination that pose a threat to g oes not relieve the operator of respons	nc. Also, began to delineate the spill site, and sar and that pursuant to NMOCD rules and tions for releases which may endanger does not relieve the operator of liability round water, surface water, human health					
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ted soil from the affected area to 6 n to Cardinal Labs on 1-31-2017. Certify that the information gions all operators are required to tealth or the environment. The heir operations have failed to in nvironment. In addition, NMC state, or local laws and/or registres re:	andy Marley. As of 2-1-17 a total of 380 y iven above is true and complete to th o report and/or file certain release n acceptance of a C-141 report by th adequately investigate and remediat ICD acceptance of a C-141 report d ulations. DAR DAR March Constructions	anda had been hauled off to Gandy-Marley is he best of my knowledge and understa otifications and perform corrective act e NMOCD marked as "Final Report" of e contamination that pose a threat to g oes not relieve the operator of respons <u>OIL CONSERV</u> Approved by Environmental Specialis	nc. Also, began to delineate the spill site, and sar and that pursuant to NMOCD rules and tions for releases which may endanger does not relieve the operator of liability round water, surface water, human health ibility for compliance with any other <u>VATION DIVISION</u> st:					
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Appendix IX Seed Mixture

Bamert Se	eed Co	mpa	ny In	c.	
1897 CR 1018 Muleshoe, TX 79347		262-98	-	Permit #	TX00905
Warm Season SSR Grass Seed		And the second data was a second data w		Sales # S	O-60263
bags					
Description	Pure Seed	Germ	Dormant	Hard Seed	Origin
Bluestem, Little "Cimarron" (Schizachyrium scoparium)	4.32%	82.00%	14.00%	0.00%	. тх
Bluestem, Yellow "WW Spar" (Andropogon ischaemum)	7.22%	90.00%	5.00%	0.00%	
Buffalograss, "Texoka" Primed KNO3 (Bouteloua dactyloides)	5.86%	96.00%	0.00%	0.00%	ТХ
Dropseed, Sand (Sporobolus cryptandrus)	5.49%	31.00%	63.00%	0.00%	
Fescue, Tall "KY 31" (Festuca arundinacea Schreb.)	1.98%	85.00%	0.00%	0.00%	OR
Grama, Blue (Bouteloua gracilis)	19.49%	94.00%	0.00%	0.00%	NM
Grama, Sideoats (Bouteloua curtipendula)	22.06%	46.00%	39.00%	0.00%	KS
Kleingrass, "Selection 75" (Panicum coloratum)	7.82%	95.00%	0.00%	0.00%	TX
Switchgrass, "Blackwell" (Panicum virgatum)	7.82%	21.00%	72.00%	0.00%	ТХ

Appendix X Cardinal Lab Results



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

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_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.

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.Kune

Celey D. Keene Lab Director/Quality Manager

Page 1 of 6



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

Analytical Results For:

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

02/02/2017	Sampling Date:	02/01/2017
02/03/2017	Sampling Type:	Soil
SHELL STATE	Sampling Condition:	Cool & Intact
NONE GIVEN	Sample Received By:	Jodi Henson
SHELL #3		
	02/03/2017 SHELL STATE NONE GIVEN	02/03/2017 Sampling Type: SHELL STATE Sampling Condition: NONE GIVEN Sample Received By:

Sample ID: SHELL 6 (H700253-01)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	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		Analyzed 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	49.3	10.0	02/02/2017	ND	204	102	200	9.69	
Surrogate: 1-Chlorooctane	96.5	% 35-147	,						

Surrogate: 1-Chlorooctadecane

Cardinal Laboratories

107 %

28-171

*=Accredited Analyte

RUGGI NOTE: Liability and Damages. Cardinal's lability and clearts encode for any claim arking, whether based in contract or tort, shall be limited to the amount paid by cleart for analyses. All chains, including those for sequences and any other cause whatevere table detected and and the attract of the applicable and the analysis. All chains, including those for sequences and including, which attracts, havines interpreting dominants and the analysis of the applicable and the analysis. In o event table Cardinal attracts is a chained by Cardinal with the analysis. The sequence and chain whether tables, havines interpreting dominants and the applicable and the applicable and the applicable and the applicable and the analysis. The sequence and chain is based upon any of the above dated reasons or otherwise. Results that only the samples been the applicable and the applicable applicable and the applicable and the applicable and the applicable and the applicable applicable and the applicable and the applicable appl

Celez D. Freine

Celey D. Keene, Lab Director/Quality Manager

Page 2 of 6



Analytical Results For:

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

Received:	02/02/2017	Sampling Date:	02/01/2017
Reported:	02/03/2017	Sampling Type:	Soil
Project Name:	SHELL STATE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	SHELL #3		

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 C6-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 % 28-171

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*=Accredited Analyte

REGEL NOTE: Labelity and Damagas. Cardina's abolity and clearts exclusive remedy for any claim action, whether based in contract or tort, shall be limited to the amount paid by cleart for analyses. All claims, including those for subjects and any other cause whethere what is descent select or associated by Cardinal Weill Table (10) (2) days at the completion of the applicable anvices. In no event shall Cardinal he labels for includents or consequentities damages, including, whithout includion, business interruptions, loss of uses of profits locared by Cardinal he labels or successors affing out of or weighted to the performance of the services beautifies the particular of above before and contract.

Celenz D. Freine

Celey D. Keene, Lab Director/Quality Manager

Page 3 of 6



Analytical Results For:

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

Received:	02/02/2017	Sampling Date:	02/01/2017
Reported:	02/03/2017	Sampling Type:	Soil
Project Name:	SHELL STATE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	SHELL #3		

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	Qualifie
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					

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	58.1	10.0	02/02/2017	ND	204	102	200	9.69	

 Surrogate: 1-Chiorooctane
 81.3 %
 35-147

 Surrogate: 1-Chiorooctadecane
 88.9 %
 28-171

Cardinal Laboratories

*=Accredited Analyte

RUSEL NOTE: Liability and Damages. Cardina's lability and clearts exclusive remedy for any claim anishing, whether based is contract or bot, shall be limited to the annuant paid by cleart for analyses. All claims, including those for negligence and any other cause whateveer table deened analest unkers made in writing and neolenal by Cardinal Vellin thirty (20) days the completion of the applicable service. In one event shall be deened analest unkers made in understand by Cardinal Vellin thirty (20) days the completion of the applicable service. In one event shall be deened analysis, including the table for incidents, including the limited to the performance of the services hermoler by Cardinal, miganeties of whether such claim is based upon any of the above stude masses or observice. This report dail not be reported and Cardinal Liberatories.

Celeog D. Keine

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 SM4500CI-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

REGEL NOTE: Liability and Damages. Cardina's ability and clerit exclusion memory for any clean antiping, whether based in contract or tord, and be initiad to the annual paid by clerit for analyses. All cleans, including those for negligence and any other cause whateveer that is deened valued or makes make in writing and negligence in this time (20) days that completion of the applicable services. In one event shall be deened valued or consequential damages, including, which the thirds, humines intermedions, loss of the analysis, it is and/article and the analysis. This report dail not be reportioned except in this writes approach of Cardinal Laboratories.

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 5 of 6

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0389	Internand, Hobbs, NM 88240 Internand, Hobbs, NM 88240 Company Name: Republic Backhoe Service Project Manager: Enc. Gorrag Address: 47 E bichens Kd Corrag to Corrag Address: 47 E bichens Kd Corrag to Corrag Address: 47 E bichens Kd Corrag to Corrag Address: 47 E bichens Kd Corrag to Corrage Project Name: New Zip: 8 8260 Project Name: ST5: 390-2035 Fax #: ST5: 396-71783 Project I cocation: She II She II She Project Owner: Record + St Project Location: She II She Project Owner: Record + St Sompler Name: Cric Corrag Grow Master and She II S Address Cric Corrag She II S Grow Master and She II S Address Cric Corrag She II S Grow Master and She II S Master and Sonr (C)OMP Grow Master and Sonr (C)OMP Address Cric Corrage Grow Master and Sonr (C)OMP <
The ring where has a super ring of second by the basis of the second sec	GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACIDIBASE: CE / COOL OTHER: ACIDIBASE: CE / COOL OTHER: ACIDIBASE: CE / COOL OTHER: CE / COOL
Photo Result Processes Processe	CHAIN-OF-CUSTODY
Additione #	CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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.tceg.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.

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. Keine

Celey D. Keene Lab Director/Quality Manager

Page 1 of 4



Analytical Results For:

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

Received:	01/31/2017	Sampling Date:	01/30/2017
Reported:	02/06/2017	Sampling Type:	Soil
Project Name:	READ & STEVENS #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	LEA COUNTY, NM		

Sample ID: 2 (H700227-01)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2200	16.0	02/03/2017	ND	416	104	400	3.77	

Sample ID: 5 (H700227-02)

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

Cardinal Laboratories

*=Accredited Analyte

REASE NOTE: Liability and Gamagas. Cardina's ability and clerk's exclusive memory for any calm anisog, whether based in contract or tort, and is insted to the annust paid by dest for analyses. All chem, including those for engigence and any other cause whethere with its deemed select strates made in writing and memory and received by Cardina' within 1999 (20) days after completion of the applicable service. It no event shall Cardina' he hade for includeng those week by Cardina' well. In advance, and the applicable service. It no event shall Cardina' he hade for includeng of profits incred by clerk, it autobalance, affinitive or completion of the applicable service. It is avented to a performance of the service behavior by Cardina', metales of whether such chain in based yours of phase intermytering. Results indicately the service behavior been interest on the writes approal of cardinal bottoches.

Celez D. Freine

Celey D. Keene, Lab Director/Quality Manager

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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 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

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Celey D. Keene, Lab Director/Quality Manager

Page 3 of 4

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			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.

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.Keine

Celey D. Keene Lab Director/Quality Manager

Page 1 of 13



Analytical Results For:

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

Received:	02/16/2017	Sampling Date:	02/15/2017
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:	TATUM		

Sample ID: NS 1 (H700398-01)

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

Sample ID: NS 2 (H700398-02)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	02/20/2017	ND	448	112	400	0.00	

Sample ID: NS 3 (H700398-03)

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	02/20/2017	ND	448	112	400	0.00	

Sample ID: NS 4 (H700398-04)

Chloride, SM4500CI-B	Analyze	d By: AC								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/20/2017	ND	448	112	400	0.00		

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RUGEL NOTE: Labelity and Damages. Candrafs labelity and clearts exclusive remedy for any clear strateg, whether based is contract or tort, shall be limited to the smount paid by cleart for analyses. All claims, including those for subgraves and any other cause whethere that is deened whether trade in writing and reviewed by Cardral within 1999 (20) days after completion of the applicable services. In no went chall clearly a claims, including those for subgraves and and days without instances on the service and and or softs in branch by cleart, is a build after, affindes or successes strategies of a synchronic strategies have and of the services. However, is an advected on the services between the services become the services in the service the services become the services in the service the service the services the services the services the services the service the services the services the service the services the service the servi

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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:	02/16/2017	Sampling Date:	02/15/2017
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:	TATUM		

Sample ID: N 2 (H700398-05)

BTEX 8021B	mg/kg		Analyzed 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	98.0	% 73.6-14	0						
TPH 8015M	mg/kg		Analyze	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	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-Chlorooctadecane 89.8 % 28-171

Sample ID: N2 C (H700398-06)

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	02/21/2017	ND	448	112	400	0.00	

Cardinal Laboratories

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REASE NOTE: Liability and Damagas. Control's liability and clearts exclusive memory for any clear attaing, whether based in contract or tort, shall be limited to the amount paid by cleart for analyses. All clears, including those for engigence and any other cause whethere what has beened whether instead cause and an exclusion for any place and the services. In convent shall Credinal he liable for includence if the applicable services. In convent shall Credinal he liable for includence if the applicable and exclusion attaining on of an enabled to the performance of the services hermatic and parts including whether such chains liabation parts of based better document of the services. Hermatic and the services hermatic and parts hermatic and whether such chains liabation part of the above Static and the services. Restaurable well be services. Hermatic and the services is the services.

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 3 of 13



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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	Sampling Date:	02/15/2017
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:	TATUM		

Sample ID: NE 0 (H700398-07)

RTEY 8021B

DIEX 0021D	ing/	ny .	Analyze	u by: Mb					
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					

Analyzed By: MS

Surrogate: 4-Bromofluorobenzene (PID	99.0	% 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
GR0 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	85.9	% 35-147	,						

Surrogate: 1-Chiorooctadecane 93.3 % 28-171

Sample ID: NE O C (H700398-08)

Chloride, SM4500CI-B	Chloride, SM4500Cl-B mg/kg		Analyze	Analyzed 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	

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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:	02/16/2017	Sampling Date:	02/15/2017
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:	TATUM		

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	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	98.8	% 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	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-Chiorooctadecane 93.6 % 28-171

Sample ID: NW 9 C (H700398-10)

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	

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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:	02/16/2017	Sampling Date:	02/15/2017
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:	TATUM		

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	% 73.6-14	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	83.0	% 35-147	,						
Surrogate: 1-Chlorooctadecane	99.6	% 28-171							

Sample ID: W2 C (H700398-12)

Chloride, SM4500CI-B mg/kg			Analyzer	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	

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Celey D. Keene, Lab Director/Quality Manager

Page 6 of 13



Analytical Results For:

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

Received:	02/16/2017	Sampling Date:	02/15/2017
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:	TATUM		

Sample ID: E 2 (H700398-13)

BTEX 8021B	mg/	mg/kg		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	98.0	% 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	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	

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 7 of 13



Analytical Results For:

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

Received:	02/16/2017	Sampling Date:	02/15/2017
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:	TATUM		

Sample ID: S 2 (H700398-15)

	,									
BTEX 8021B	mg/	mg/kg		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-Chiorooctane //.1 % 35-14/ Surrogate: 1-Chiorooctadecane 84.2 % 28-171

Sample ID: S2 C (H700398-16)

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	

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*=Accredited Analyte

RUGE NOTE: Labity and Damages. Cardina's abitity and clerit exclusive remedy for any claim antidig, whether based is contract or tord, and lab limited to the amount paid by deet for analyses. All cleims, including those for subginess and any other cause whatevere table deemed ambed unkness makes in writing and neolenal by Cardinal Weithers thing (20), days after completion of the applicable services. In so event cable Cardinal has been for includent of an applicable including, which in the tables, hashines tables, and is an in writing and neolenal by Cardinal Weithers completion of the applicable anxies. It is not event cable Cardinal hashing for including including, which is that tables, hashine tables, and is an including and the tables of a subset of the approximation of the approximates of the anxies. Interrupt claims in based of an applicable and cardinal Laboratories.

Celey D. Freine

Celey D. Keene, Lab Director/Quality Manager

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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	Sampling Date:	02/15/2017
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:	TATUM		

Sample ID: SW O (H700398-17)

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	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
GR0 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-Chlorooctadecane 96.1 % 28-171

Sample ID: SW 1 C (H700398-18)

Chloride, SM4500CI-B	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	

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REASE NOTE: Lability and Damagas. Constraits ability and clearts exclusive memory for any clear straing, whether based in contract or tort, shall be limited to the amount paid by cleart for analyses. All clears, including those for mappingers and any other cause whethere what lie deemed whether clears made in writing and received by Cardinal within 1999 (20) days after completion of the applicable service. In no event shall Cardinal he labile for included) or consequential damages, including without includion, business interruptions, loss of any of profits incred by cleart, its analysis, affinites or successors shalling out of or maked to the performance of the services interruption, loss are used and incredient performance of the services. Interruption clears, including without includion of the applicable actives. The service is and affinites or successors shalling out of correlated includions.

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 9 of 13



Analytical Results For:

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

Received:	02/16/2017	Sampling Date:	02/15/2017
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:	TATUM		

Sample ID: SE 2 (H700398-19)

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) TPH 8015M	99.5 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	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	% 35-14	7						

Surrogate: 1-Chlorooctane 83.7 % 35-147 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

RUGE NOTE: Liability and Damages. Cardina's lability and clerit's exclusive remarks for any claim anishing, whether based is contract or bort, dual be limited to the annount paid by clerit for analyses. All claims, including those for supplying the cases whatever multiply and cleves and any other cases whatever multiply and cleves and and on a section of the applicable services. In one event shall be detert is activated by Cardina' which they (20) days their completion of the applicable services. In one event shall be detert is activated and the cleves of the services herework by Cardina', which the listics of a service listic and and an and and an analysis. This report dual not be reported and cardina' be about the service listic services and and and an analysis. This report dual not be reported and Cardina' Librah.

Celez D. Keine

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 SM4500CI-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

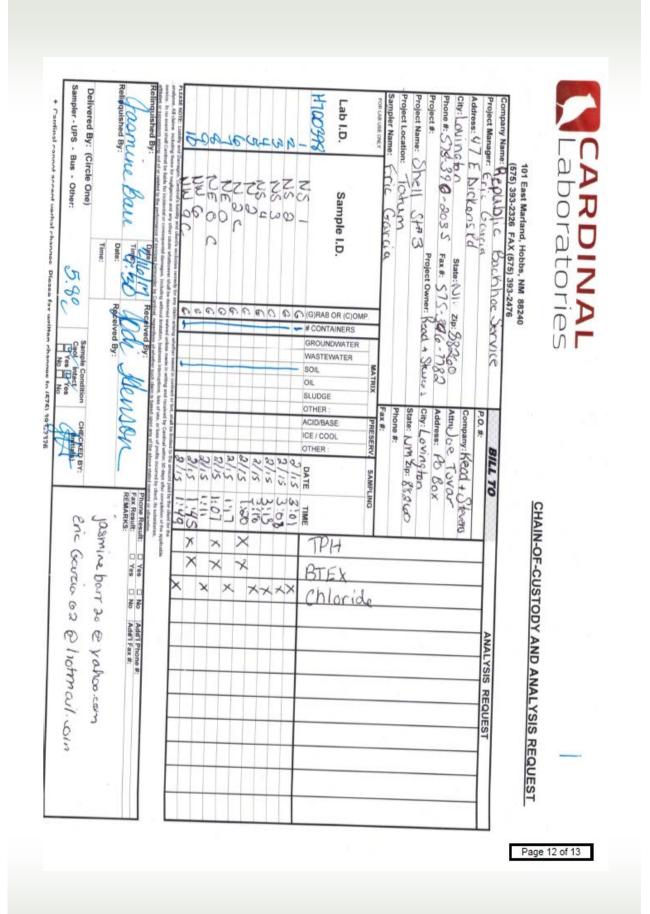
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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 11 of 13



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10 Addi Phone #: 1720 & Yoshoo.com 62 @ Hotmail.com	ANALYSIS REQUEST	DY AND ANALYSIS REQUEST
		JEST



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.

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. Keine

Celey D. Keene Lab Director/Quality Manager

Page 1 of 4



Analytical Results For:

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

Received:	02/17/2017	Sampling Date:	02/16/2017
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:	TATUM		

Sample ID: C 10' (H700413-01)

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	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					

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	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	,						

28-171

Surrogate: 1-Chlorooctane 84.7 % Surrogate: 1-Chlorooctadecane 98.5 %

Sample ID: CENTER 15' (H700413-02)

Chloride, SM4500CI-B	mg,	/kg	Analyzed	i 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

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REAGE NOTE: Labelty and Damages. Cardina's labelty and clerk's exclusive memory for any calum axisty, whether based in contract or tord, and label insted to the annual paid by dest for analyses. All chains, including those for supplying these causes whatever table is deserved as all others, including those for supplying these for analyses. All chains, including those for supplying these causes whatever table is deserved as all others makes in an event table for includent to the performance of the applicable service. In one event table for includent is based for includent tables and tables for includent tables for includent tables for includent tables for includent tables and tables and an all tables for includent tables for includent

Celeoz D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 2 of 4



Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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 SM4500CI-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

RUSEI NOTE: Liability and Damages. Cardina's lability and clerit's exclusive remedy for any claim anishing, whether based is contract or bort, and lab imbed to the annount paid by clerit for analyses. All claims, including those for subgiguess and any other cause whateveer that is deened wateved tracks make in writing and necessarial damages, including efforts into the special accession of the applicable services. In one event shall be deened wateved by Cardina' within thinty (20) days their completion of the applicable services. In one event shall be defined to bable for includent of company and manufactures and and and an applicable services. The events the services herewafter by Cardina', migandees of whether such claims is bable upon any of the above dated massors or observices. These report and an event that with written approval of Cardina' laboratories.

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 3 of 4

PERAT NOTE: Unlike and Damages. Castadri landay analyses. Al dama localizing trans for addaption and any service. In an overlated Castralized but for indicate attivities or speciments are part of or related to the perform the provide the service of the performance of the provided By: Relinquished By: Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Int East Marian (575) 333-3226 F Project Manager: Fepublic Project Manager: Fric. Go Address: YT E bicken City: Lov inger Phone #:515-390-2035 Project Location: Tochum Sampler Name: Eric. Corr Frence Units Sampler Name: Eric. Corr Frence Units Contect Status
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o AddT Phone #:	CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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.

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. Keine

Celey D. Keene Lab Director/Quality Manager



Analytical Results For:

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

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

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

semple series a series									
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 % 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	% 25.1-13	8						
Surrogate: 1-Chlorooctadecane	93.7	% 26.8-17	0						

Cardinal Laboratories

*=Accredited Analyte

RUSEI KOTE: Labity and Damages. Control's labity and clearts exclusive remedy for any clear arising, whether based in contract or tort, shall be limited to the answert paid by cleart for analyses. All clears, including those for negligence and any other cause whethere that lab deemed whether makes in writing and neeked by Canthal within thirth (20) days a their completion of the applicable averses. In one event shall Canthal be labits for including it company that in the completion of the applicable averses. In one event shall Canthal be labits for including it company that including whether that produce average that labels are structure of the annexes herearder by Canthal, ingendees of whether such chain labate (pany of the shore difference is even and or and the complex cleared by Canthal, ingendees of whether such chain labate (pany of the shore difference is even and the complex cleared by cleared and the important except that labels the structure of Canthal Labotscher.

Celery D. Keine



Analytical Results For:

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

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

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

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	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						

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RUGE NOTE: Lability and Damages. Control's lability and client's exclusive remedy for any claim antaing, whether based in contract or tort, shall be limited to the annuant paid by diret for analyses. All dains, including those for negligence and any other cause whethere shall be deemed used used rates in writing and needed by Cardinal writing (20) weither completion of the applicable ansists. In one exet shall Cardinal be liable for incidential or consequential damages, inciding, without limitation, builted in the incident of uses, or loss of profile licenses of whether such claim is based upon any of the above stated resume or otherwise. Heads only to the approximate of uses of the applicable and/or.

Celeon Keine



Analytical Results For:

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

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

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

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					

Summerates	4-Bromofluorobenzene	(PID	97.6%	72-148
Surrogane.	4-Dromojnuorooensene	(FIL)	97.0 /6	/2-140

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	86.8	% 25.1-15	8						

Surrogate: 1-Chlorooctadecane 92.7 % 26.8-170

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*=Accredited Analyte

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Celegrit Keine



Analytical Results For:

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

Received:	03/24/2017	Sampling Date:	03/24/2017
Reported:	03/28/2017	Sampling Type:	Soil
Project Name:	SHELL ST#3	Sampling Condition:	Cool & Intact
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 (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 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	% 25.1-15	8						
Surrogate: 1-Chlorooctadecane	86.5	% 26.8-17	0						

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*=Accredited Analyte

RUSGI NOTE: Liability and Damages. Control's liability and client's exclusive remedy for any claim rating, whether based is contract or tort, shall be limited to the annuant paid by client of the analyses. All claims, including those for negligence and any other cause whatever shall be deened used uses made in writing and neeked by Canthai withis thit (20) days a Matter completion of the applacite antice. In no event shall clariful be liable for includeral or consequential damages, linking, white the interpret has a neeked by Canthai withis thit (20) days a Mittee or successon shall be applaced to the second the second or successon shall be applied by and clariful be liable for includeral or consequential damages, claims whether the shall be applied masons or otherwise. Results relate only to be accessed and applied on the second sought full with writes approacied Canthai Laboratives.

Celez D. Keine



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

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	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	98.2	% 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	91.9	% 25.1-158	8						
Surrogate: 1-Chlorooctadecane	94.4	% 26.8-170)						

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Celeg D. Keine



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
Project Name:	SHELL ST#3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
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 % 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	88.6	% 25.1-15	8						
Surrogate: 1-Chlorooctadecane	91.7	% 26.8-17	0						

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Celez D. Keine



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
Project Name:	SHELL ST#3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	TATUM		

Sample ID: E 20 (H700785-07)

sample selle se (in eei									
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	% 72-148	1						
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	94.0	% 25.1-15	8						

Surrogate: 1-Chlorooctadecane 93.6 % 26.8-170

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Celery D. Keine



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
Project Name:	SHELL ST#3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	TATUM		

Sample ID: SE 20 (H700785-08)

BTEX 8021B	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					

Surrogate: 4-Bromofluorobenzene (PID 98.9 % 72-148

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	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	85.0	% 25.1-15	8						
Surrogate: 1-Chlorooctadecane	86.2	% 26.8-17	0						

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

Sample ID: S 20 (H700785-09)

BTEX 8021B	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					

Surrogate: 4-Bromofluorobenzene (PID 98.8 % 72-148

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-Chiorooctane	90.6	% 25.1-15	8						
Surrogate: 1-Chlorooctadecane	92.5	% 26.8-17	0						

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Celez D. Keine



Analytical Results For:

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

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

Sample ID: SW 20 (H700785-10)

Semple Let Str Le (meen									
BTEX 8021B	mg/	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					

Surrogate: 4-Bromofluorobenzene (PID 98.8 % 72-148

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	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	88.6	% 25.1-15	8						

Surrogate: 1-Chlorooctadecane 92.4 % 26.8-170

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Celenz D. Keine



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
Project Name:	SHELL ST#3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	TATUM		

Sample ID: W 20 (H700785-11)

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	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 97.8 % 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 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	% 25.1-15	8						
Surrogate: 1-Chiorooctadecane	88.5	% 26.8-17	0						

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Celenz D. Keine

Celey D. Keene, Lab Director/Quality Manager



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
Project Name:	SHELL ST#3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	TATUM		

Sample ID: NW 20 (H700785-12)

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 98.6 % 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	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-Chlorooctane	92.9	% 25.1-15	8						

Surrogate: 1-Chlorooctadecane 96.6 % 26.8-170

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Celery D. Keine

Celey D. Keene, Lab Director/Quality Manager



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
Project Name:	SHELL ST#3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	TATUM		

Sample ID: CENTER 20 (H700785-13)

BTEX 8021B

		-							
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					

Analyzed By: MS

Surrogate: 4-Bromofluorobenzene (PID 98.1 % 72-148

mg/kg

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-Chlorooctane	82.9	% 25.1-13	8						
Surrogate: 1-Chlorooctadecane	84.3	% 26.8-17	0						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

elinquished By: elinquished By: elinquished By: Delivered By: (Circle One)	10 JU 20	SE 20	F E 20	S N SC	WSU-	2 NS 2-10	100785	Lab I.D. Sar	PORTING RECORD.	Project Location: 10,10010	Project Name: Shell St "S	Project #:	city: Lov ing ton	Address: 47 E Dickens Rd	Project Manager Eric Garcia	Name: Ka Ashlic	(575) 393-232
tar a consequent of a compare that and a compare that a compare th	DO		00					Sample I.D.		Garcia	5+"5	Project Owner:		Rd and Min Station	rClo	Company Name Re Millic Backhoe Service	(575) 393-2326 FAX (575) 393-2476
Received By: Received By: Automatica Sample Condition	G him which whether hand in contribut or the second residue to the second residue and residue to the second re	6	09	0	6	000		RAB OR (C)OM ONTAINERS OUNDWATER STEWATER IL UDGE HER :	MATRIX	Fa	19 20	2 0				6	
CHECKED BY: 0018489	r, shall be leaded to the answard public reacting Candinal walkin. 20 deep after react or Cana of positive tenaried by shi if same			3/23 /			ACIO DATE	ID/BASE: E/COOL (HER :	PRESERVI SAMPUNG		Phone #:	city: Koswell	Address Po Box 1518	Attn: he Tovar	P.O.# 0 1. 04	BILL TO	
Panone Result Yes Fax Result Yes REMARKS	S:18 X X unipud by the deart for the up after sumplication of the application edity claret, its subvisitation;	×	X X Core	12:05 × ×	11:00 × ×	4:30 × ×	SIS XX	TPH Chlori	de.					ana	,	-	
s D No Addi	×	*	XX	**	×	**	T	BTEX		_							ANAL
Phone # Fax #																TOIO INEGOLO	VSIS REQUEST

LEAG hote: Luality and Develope. Cardina's luality and analyses. At some stand carding two is transported any other and the subscream analysis of a second or or other entropy is a subscream analysis of a second or other Relinquished By: Delivered By: (Circle One) Sampler - UPS - Bus - Other.	Labir.
Time Back with the second sec	G G G G (G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ICC / COOL OTHER: DATE DATE
any the development supplication of the expected terms in a notation term is notation terms attended and the expected attended attende	CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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.

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.Kune

Celey D. Keene Lab Director/Quality Manager



				PHON	IE (575) 3	93-2326 ° 101	E. MARLAND ° HO	385, NM 882	240
		Analy	rtical Resul	ts For:					
			UBLIC BACKH	OE SERVICES					
			ic garcia E. Dickens RD)					
			VINGTON NM, 8						
		Fax	To: NONE	E					
Received:	03/24/20	17		San	npling Da	ate:	03/24/2	2017	
Reported:	03/28/20				npling Ty		Soil		
Project Name: Project Number:	SHELL ST NONE GI					ondition: eived By:	Cool & Tamara	Oldaker	
Project Location:	TATUM					,			
Sample ID: NS 1 - 10 (H700 BTEX 8021B	J/85-01) mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualific
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 (F	VD 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	Qualific
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	Qualifi
GR0 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	% 25.1-15	8						
Surrogate: 1-Chlorooctadecane	93.7	36 26.8-17	0						
Cardinal Laboratories								*=Accredit	ted Analy
AUGH 1076. Unlify and Damages. Contracts my other source of discourse that its derived water	al view weight in	arting and maximal by C	adiral willin Dirky (32)	Any discount of	the applicable	and the second	Catal Cardinal Sections	ter beiderfall er s	araayaridd de
initiality, without installar, business interceptions, is where is based upon any of the states shall measure or other	na of sam, or has name. Namela misla arty	al partis instanti by star In Tanangka Karifat stara	 In subsidiaries, affiliate This report shall not be reported. 	n an anna an	al al ar mid De appreciation	al la Die performanie Antipel Lateratione	d De series ferender i	ly Cardinal, regard	less of schelle
College the	E.VL 0								
0									



Sampling Date:

Sampling Condition: Sample Received By:

Sampling Type:

03/24/2017

Cool & Intact

Tamara Oldaker

Soil

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

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

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	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
GR0 C6-C10	<10.0	10.0	03/27/2017	ND	181	90.6	200	0.163	
DR0 >C10-C28	<10.0	10.0	03/27/2017	ND	189	94.5	200	0.743	
Surrogate: 1-Chlorooctane	54.4	% 25 .1-15	8						

26.8-170

Surregate: I-Chlorooctane 84.4 36 Surregate: I-Chlorooctadecane 79.0 36

Cardinal Laboratories

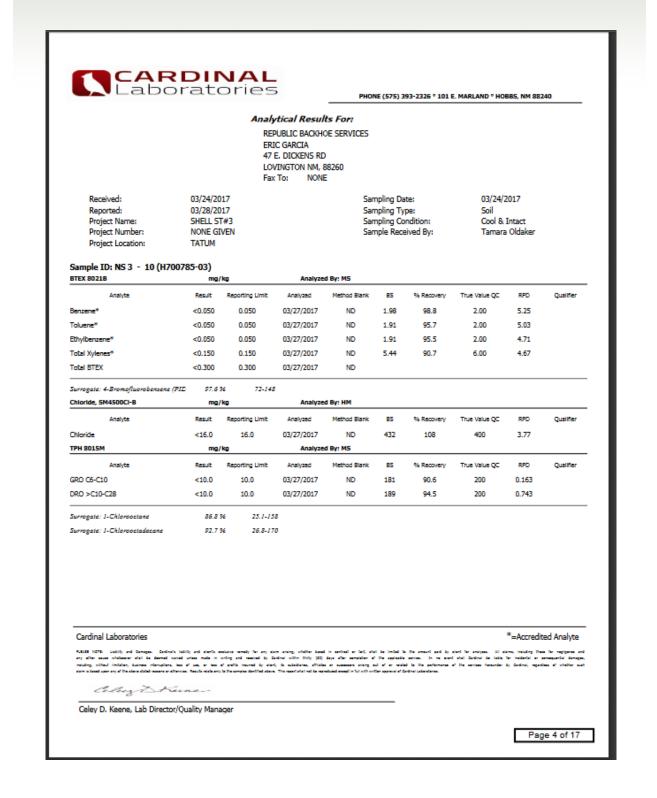
*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Page 3 of 17



	DIN rate	bries	5	РНО	NE (575) 3	93-2326 ° 101	E. MARLAND ° HO	885, NM 882	240
		Anal	ytical Resul	ts For:					
			PUBLIC BACKHO	DE SERVICES					
		_	E. DICKENS RD)					
			VINGTON NM, 8						
		Fa	x To: NONE	5					
Received:	03/24/201				npling Da		03/24/2	2017	
Reported: Project Name:	03/28/201 SHELL ST#				npling Ty	/pe: ondition:	Soil Cool &	Tetrat	
Project Number:	NONE GIV					eived By:		Oldaker	
Project Location:	TATUM				÷	,			
Sample ID: NS 4 - 10 (H70	0785-04)								
BTEX 8021B	mg/k		Analyze	d By: MS					
Analyte		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	
Foluene*	<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	
Fotal Xylenes* Fotal BTEX	<0.150 <0.300	0.150	03/27/2017 03/27/2017	ND ND	5.44	90.7	6.00	4.67	
Idial DIEX	<0.300	0.300	03/2//2017	ND					
Surrogate: 4-Bromofluorobenzene (P	98.8 %	72-14	8						
Chloride, SM4500CI-B	mg/k	9	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/k		Analyze						
Analyte		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	
GRO C6-C10			03/27/2017	ND	189	94.5	200	0.743	
	<10.0	10.0							
DRO >C10-C28	<10.0								
SRD C5-C10 DRD >C10-C28 Surrogate: 1-Chlorooctane Surrogate: 1-Chlorooctadecane		25.1-1	58						
DRO >C10-C28 Surregate: I-Chlorooctane	85.5 %	25.1-1	58						
0R0 >C10-C28 Surregate: I-Chloreoctane	85.5 %	25.1-1	58						
0R0 >C10-C28 Surregate: I-Chloreoctane	85.5 %	25.1-1	58						
0R0 >C10-C28 Surregate: I-Chloreoctane	85.5 %	25.1-1	58						
0R0 >C10-C28 Surregate: I-Chloreoctane	85.5 %	25.1-1	58						
0R0 >C10-C28 Surregate: I-Chloreoctane	85.5 %	25.1-1	58						
0R0 >C10-C28 Surregate: I-Chloreoctane	85.5 %	25.1-1	58					*=Accredit	ed Analyte
DRD >C10-C28 Surregate: 1-Chloreoctane Surregate: 1-Chloreoctadecane Cardinal Laboratories	85.5 % 86.5 %	25.1-1 26.8-1	58 70 10 10 10 10 10 10 10 10 10 10 10 10 10	Application completion of	the applicable	and the second	alari for analyses. All al Cahal Canànai de Table	ina, induling Das In Induited at a	a be najiyana a anaquanta danag
DRD >C10-C28 Surrogate: 1-Chlorooctane Surrogate: 1-Chlorooctadecane Cardinal Laboratories	35.5 % 36.5 %	25.1-1 26.8-1 10 sensity for any ing and meaned by	55 70 70 Earlier and States Land Earlier and States (2014)	days after samplefun of the second setting of	i Die application of of or mini	n anniae. The second	alari for analyses. All al Cahal Canànai de Table	ina, induling Das In Induited at a	a be najiyana a anaquanta danag
DRO >C10-C28 iurrogate: 1-Chlorooctane iurrogate: 1-Chlorooctadecane Cardinal Laboratories Falls 50%. Usity of Senge. Soluch my die sons oblane del is Amelia e media offet inter home the la Amelia e	35.5 % 36.5 % Initial and alloche main all other main and all other main and all other main and all other main and all other main. Nanch main and and	25.1-1 26.8-1 10 sensity for any ing and meaned by	55 70 70 Earlier and States Land Earlier and States (2014)	days after samplefun of the second setting of	i Die application of of or mini	n anniae. The second	alari for analyses. All al Cahal Canànai de Table	ina, induling Das In Induited at a	a be najiyana a anaquanta danag



03/23/2017

Cool & Intact

Tamara Oldaker

Soil

Analytical Results For:

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

Sampling Date:

Sampling Type:

Sampling Condition:

Sample Received By:

 Received:
 03/24/2017

 Reported:
 03/28/2017

 Project Name:
 SHELL ST#3

 Project Number:
 NONE GIVEN

 Project Location:
 TATUM

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	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) 98.2 % 72-148

94.4 36

26.8-170

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
GR0 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	
Summate: I Chlomostore									
Surrogate: 1-Chlorooctane	91.9	36 25.1-15	8						

Surrogate: I-Chlorooctane Surrogate: I-Chlorooctadecane

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Page 6 of 17



03/23/2017

Tamara Oldaker

Soil Cool & Intact

Analytical Results For:

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

Sampling Date:

Sampling Condition:

Sample Received By:

Sampling Type:

 Received:
 03/24/2017

 Reported:
 03/28/2017

 Project Name:
 SHELL ST#3

 Project Number:
 NONE GIVEN

 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 % 72-148

Chioride, 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/	lkg	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	

 Surrogate:
 I-Chlorooctadecane
 91.7 %
 26.8-170

*=Accredited Analyte

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Page 7 of 17

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		-	rtical Resul						
			UBLIC BACKH	OE SERVICES					
			ic garcia E. Dickens re	, ,					
			/INGTON NM,						
		Fax	To: NON	E					
Received:	03/24/20	17		San	npling Da	ite:	03/23/2	2017	
Reported:	03/28/20				npling Ty		Soil		
Project Name:	SHELL S				npling Co		Cool &		
Project Number: Project Location:	NONE GI TATUM	IVEN		San	nple Reo	eived By:	Tamara	Oldaker	
Project Location:	TATUM								
Sample ID: E 20 (H700785-	07)								
BTEX 80218	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualific
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					
	D 98.4	% 72-148							
Chloride, SM4500CI-B	mg,			d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualific
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	Qualific
GR0 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	94.0	% 25.1-15	8						
Surrogate: I-Chlorooctadecane	93.6	36 26.8-17	0						
Cardinal Laboratories								*=Accredit	ed Analy
NULL 1078. Unity of Design. Codesh I	ally and sharts a	minim memby for any sta	n anny status tau	i in and all an last, wh	t to total t	. Do among paid by	alard for analysis. All al	ina, induling Dar	the regions
- ey alter soon ofstanner stall in darend sole induling, without inductor, buttom television, in state is based oper any of the starm stated means or other state.	and the second second	al parts beyond by also	, is address, attack	a a summer stary a	2 e e est	d in the pathware i			
		and the second second sizes		and the second second second second					
College tre.									

	rate	ories	>	РНОГ	NE (575) 3	93-2326 ° 101	E. MARLAND ° HO	885, NM 883	240
		Anal	ytical Resul	ts For:					
			PUBLIC BACKH IC GARCIA	OE SERVICES					
			E. DICKENS RE)					
			VINGTON NM, (To: NON						
			10. 10.	-					
Received: Reported:	03/24/201 03/28/201				npling Da npling Ty		03/23/2 Soil	2017	
Project Name:	SHELL ST	#3		San	npling Co	ndition:	Cool &		
Project Number: Project Location:	NONE GIV TATUM	/EN		San	nple Reo	eived By:	Tamara	Oldaker	
Project Location:	TATOM								
Sample ID: SE 20 (H70078 BTEX 8021B	-	_		d By: MS					
Analyte	mg/) 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-Bromofluorobenzene (F	910 98.9 S	6 72-14	5						
Chloride, SM4500CI-B	mg/)		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/)	-	-	d By: MS					
Analyte SRO C6-C10	Result <10.0	Reporting Limit	Analyzed	Method Blank	85 181	% Recovery	True Value QC	RPD	Qualifier
DRO >C10-C28	<10.0	10.0	03/27/2017 03/27/2017	ND ND	189	90.6 94.5	200	0.163	
Surrogate: I-Chlorooctane	85.0 %								
Surrogate: I-Chlorooctadecane	86.2 %	6 26.8-17	0						
Cardinal Laboratories								*=Accredit	ed Analyte
FUELD 1078. Unlifty and Damages. Contracts my other second children and its descend and	lability and also to an	dation recently for any of	an arting whither taxa	i la anchesi en tad, eta Anno etta ancostitute et	i ta testal t	. Do amount paid by	alari be analyses. Al di Cabal Carlool da Jaka	ana, induling Dar Dar berbacks an	a for negligeneers
including, without including, business interruptions, it including is fixed operany of the states shall manage an effect	an a sa sa sa sa sa	path insert by the	c, in addition, which	a at some string a	a a a sia	a to the pathematic			
Colleg to the									
congressi									

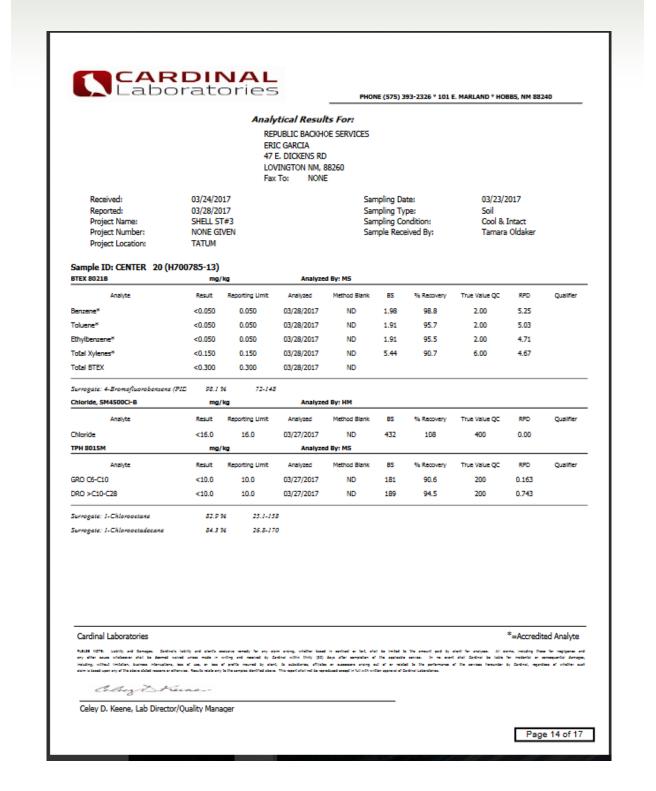
Received: 03/24/2017 Reported: 03/28/2017 Project Name: SHELL ST#3 Project Number: NONE GIVEN Project Location: TATUM Sample ID: S 20 (H700785-09) BTEX 80218 mg/kg Analyte Resut Reported Benzene* <0.050 Toluene* <0.050 Ethylbenzene* <0.050 Total Xylenes* <0.150 Total BTEX <0.300	eFUBLIC ERIC GAF 47 E. DIC LOVINGT Fax To: 0000 03/3 0.050 03/3 0.050 03/3	XENS RD ON NM, 88260 NONE Analyzed By: M2 alyzed Metho 27/2017 I	VICES Sampling Sampling Sample R Sample R s s d Bank BS ND 1.96	Type: Condition: Jaceived By: % Recovery	True Value QC		
Reported: 03/28/2017 Project Name: SHELL ST#3 Project Number: NONE GIVEN Project Location: TATUM Sample ID: S 20 (H700785-09) BETEX 80218 Malyte Result Analyte Result Benzene* <0.050 Toluene* <0.050 Ethylbenzene* <0.050 Total STEX <0.050 Surregate: 4.Bromofluorobenzene (FIZ	ERIC GAF 47 E. DIC LOVINGT Fax To: orting Umit An 0.050 03/3 0.050 03/3	Analyzed By: M2 alyzed Metho 27/2017 1	Sampling Sampling Sample R Sample R s MD 1.96	Type: Condition: Jaceived By: % Recovery	Soil Cool & I Tamara	Intact Oldaker	
Reported: 03/28/2017 Project Name: SHELL ST#3 Project Number: NONE GIVEN Project Location: TATUM Sample ID: S 20 (H700785-09) BTEX 80218 Marka Analyte Analyte Resut Rep Benzene* Analyte Resut Rep Control Resut Rep Control Resut Rep Control Resut Rep Control Rep Survegate: 4-Bromofluorobenzene (PIL 	47 E. DIC LOVINGT Fax To: orting Limit An 0.050 03/3 0.050 03/3	XENS RD ON NM, 88260 NONE Analyzed By: M2 alyzed Metho 27/2017 I	Sampling Sampling Sample R s d Blank BS ND 1.96	Type: Condition: Jaceived By: % Recovery	Soil Cool & I Tamara	Intact Oldaker	
Reported: 03/28/2017 Project Name: SHELL ST#3 Project Number: NONE GIVEN Project Location: TATUM Sample ID: S 20 (H700785-09) BTEX 80218 Marka Analyte Analyte Resut Rep Benzene* Analyte Resut Rep Control Resut Rep Control Resut Rep Control Resut Rep Control Rep Survegate: 4-Bromofluorobenzene (PIL 	LOVINGT Fax To: orting Limit An 0.050 03/3 0.050 03/3 0.050 03/3	Analyzed By: M2 alyzed Metho 27/2017 1	Sampling Sampling Sample R s d Blank BS ND 1.96	Type: Condition: Jaceived By: % Recovery	Soil Cool & I Tamara	Intact Oldaker	
Reported: 03/28/2017 Project Name: SHELL ST#3 Project Number: NONE GIVEN Project Location: TATUM Sample ID: S 20 (H700785-09) BTEX 80218 Marka Analyte Analyte Resut Rep Benzene* Analyte Resut Rep Control Resut Rep Control Resut Rep Control Resut Rep Control Rep Survegate: 4-Bromofluorobenzene (PIL 	Fax To: orting Limit An 0.050 03/2 0.050 03/2 0.050 03/2	Analyzed By: Ms alyzed Metho 27/2017 1	Sampling Sampling Sample R s d Blank BS ND 1.96	Type: Condition: Jaceived By: % Recovery	Soil Cool & I Tamara	Intact Oldaker	
Reported: 03/28/2017 Project Name: SHELL ST#3 Project Number: NONE GIVEN Project Location: TATUM Sample ID: S 20 (H700785-09) BETEX 80218 Malyte Result Analyte Result Benzene* <0.050	0.050 03/2 0.050 03/2 0.050 03/2	alyzed Metho 27/2017 M 27/2017 M	Sampling Sampling Sample R s d Blank BS ND 1.96	Type: Condition: Jaceived By: % Recovery	Soil Cool & I Tamara	Intact Oldaker	
Reported: 03/28/2017 Project Name: SHELL ST#3 Project Number: NONE GIVEN Project Location: TATUM Sample ID: S 20 (H700785-09) BTEX 80218 Marka Analyte Analyte Resut Rep Benzene* Analyte Resut Rep Control Resut Rep Control Resut Rep Control Resut Rep Control Rep Survegate: 4-Bromofluorobenzene (PIL 	0.050 03/2 0.050 03/2 0.050 03/2	alyzed Metho 27/2017 M 27/2017 M	Sampling Sampling Sample R s d Blank BS ND 1.96	Type: Condition: Jaceived By: % Recovery	Soil Cool & I Tamara	Intact Oldaker	
Project Number: NONE GIVEN Project Location: TATUM Sample ID: S 20 (H700785-09) BTEX 80218 mg/kg Analyte Result Rep Benzene* <0.050 Toluene* <0.050 Ethylbenzene* <0.050 Ethylbenzene* <0.050 Total Stylenes* <0.150 Total STEX <0.300 Surregate: 4-Bromofluorobenzene (PIL 98.8 54	0.050 03/2 0.050 03/2 0.050 03/2	alyzed Metho 27/2017 M 27/2017 M	Sample R 5 Id Blank B5 ND 1.96	Neceived By:	Tamara True Value QC	Oldaker	
Project Location: TATUM Sample ID: S 20 (H700785-09) mg/kg BTEX 80218 mg/kg Analyte Result Rep Benzene* <0.050	0.050 03/2 0.050 03/2 0.050 03/2	alyzed Metho 27/2017 M 27/2017 M	5 Id Blank BS ND 1.96	% Recovery	True Value QC		
Sample ID: S 20 (H700785-09) BTEX 80218 mg/kg Analyte Result Rep Benzene* <0.050	0.050 03/2 0.050 03/2 0.050 03/2	alyzed Metho 27/2017 M 27/2017 M	d Blank BS		-	RPD	
BTEX 8021B mg/kg Analyte Result Rep Benzene* <0.050 Toluene* <0.050 Ethylbenzene* <0.050 Ethylbenzene* <0.050 Total Xylenes* <0.150 Total BTEX <0.300 Surrogate: 4-Bromofluorobensene (PIL) \$98.8 %	0.050 03/2 0.050 03/2 0.050 03/2	alyzed Metho 27/2017 M 27/2017 M	d Blank BS		-	RPD	
Analyte Result Rep Benzene* <0.050	0.050 03/2 0.050 03/2 0.050 03/2	alyzed Metho 27/2017 M 27/2017 M	d Blank BS		-	RPD	
Benzene* <0.050	0.050 03/2 0.050 03/2 0.050 03/2	27/2017 1 27/2017 1	ND 1.96		-	RPD	
Toluene* <0.050	0.050 03/2	27/2017		3 98.8			Qualifier
Ethylbenzene* <0.050	0.050 03/2				2.00	5.25	
Total Xylenes* <0.150 Total BTEX <0.300 Surregate: 4-Bromofluorobenzene (PID 98.8 56			ND 1.91		2.00	5.03	
Totel BTEX <0.300 Surregate: 4-Bromofluerobenzene (PIL) 98.8 %	0.150 03/2		ND 1.91		2.00	4.71	
Surrogate: 4-Bromofluorobenzene (PID 98.8 %			ND 5.44	4 90.7	6.00	4.67	
	0.300 03/2	27/2017 1	ND				
Chierida Chief Cock R	72-148						
Chioride, SM4SdoCi*B Ing/Ng		Analyzed By: HI	4				
Analyte Result Rep	orting Limit An	alyzed Metho	d Blank BS	% Recovery	True Value QC	RPD	Qualifier
Chloride <16.0	16.0 03/2	27/2017 1	ND 432	2 108	400	3.77	
TPH 8015M mg/kg		Analyzed By: MS	5				
			d Blank BS	-	True Value QC	RPD	Qualifier
GR0 C5-C10 <10.0	-		ND 181		200	0.163	
DRO >C10-C28 <10.0	10.0 03/2	27/2017 1	ND 189	94.5	200	0.743	
Surrogate: I-Chlorooctane 90.6 %	25.1-158						
Surrogate: 1-Chlorooctadecane 92.5 %	26.8-170						

	rato	pries	5	PHO	IE (575) 3	93-2326 ° 101	E. MARLAND ° HOE	385, NM 882	40
		Analy	tical Resul	ts For:					
			UBLIC BACKH	DE SERVICES					
			ic garcia E. Dickens Ri						
			/INGTON NM,						
		Fax	To: NON	E					
Received:	03/24/201	.7		Sar	npling Da	ite:	03/23/2	017	
Reported:	03/28/201				npling Ty		Soil		
Project Name: Project Number:	SHELL ST				npling Co nple Reco	eived By:	Cool & I Tamara	Oldaker	
Project Location:	TATUM								
Sample ID: SW 20 (H70078	5-10)								
BTEX 8021B	mg/k	٥	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* Total BTEX	<0.150 <0.300	0.150	03/27/2017 03/27/2017	ND ND	5.44	90.7	6.00	4.67	
				110					
Surrogate: 4-Bromofluorobenzene (P Chloride, SM4500Cl-B	72 98.8% mg/k			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/k			d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRD 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: I-Chlorooctane	33.6 %	25.1-15	8						
Surrogate: I-Chlorooctadecane	92.4 %	26.8-17	o						
Cardinal Laboratories								*=Accredit	ed Analyte
AURIN 1078. Untilly and Damages. Controls my other source of character shall be derived web	al view weights of	Ong and reached by G	edited within they (20)	See the service of	On epphasis	ander in an and	C shall Cardinal Be Table 1	in individui er e	magarial dava
initiality, without installar, durings interceptions, in state is based upon any of the states shall measure of the	na di san, na kan di mina Anglia minin any is	patta inavai ky dari Na arapia ita fini dara	, its established, atticts This report shall not be rep	n an annual antig a alamh annait is fall aith ar	al of an edds for approval of C	d in the parlomana Indical Laboratories	d De anties ferseler i	ly Cardinal, regardi	es of shallers
Colory D. Fre	- M. P								

	rato	ories	5	PHO	IE (575) 3	393-2326 ° 101	E. MARLAND ° HO	BB5, NM 883	240
		Analy	rtical Resul	lts For:					
		REF	UBLIC BACKH	OE SERVICES					
			C GARCIA						
			e. Dickens Ri /Ington NM,						
			To: NON						
Received:	03/24/20	17		San	npling Da	ate:	03/23/	2017	
Reported:	03/28/20			Sampling			Soil		
Project Name:	SHELL ST			Sampling Condition:			Cool & Intact		
Project Number:	NONE GI	/EN		Sample Received By:			Tamara Oldaker		
Project Location:	TATUM								
Sample ID: W 20 (H700785- STEX 80218	11) mg/i	ka.	Anabia	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
enzene*	<0.050	0.050	03/27/2017	ND	1.98	98.8	2.00	5.25	-
oluene*	<0.050	0.050	03/27/2017	ND	1.91	95.7	2.00	5.03	
thylbenzene*	<0.050	0.050	03/27/2017	ND	1.91	95.5	2.00	4.71	
otal Xylenes*	<0.150	0.150	03/27/2017	ND	5.44	90.7	6.00	4.67	
otal BTEX	<0.300	0.300	03/27/2017	ND					
urrogate: 4-Bromofluorobenzene (PI	D 97.83	6 72-148	,						
hloride, SM4500CI-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
hloride	<16.0	16.0	03/27/2017	ND	432	108	400	3.77	
PH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
R0 C6-C10	<10.0	10.0	03/27/2017	ND	181	90.6	200	0.163	
RO >C10-C28	<10.0	10.0	03/27/2017	ND	189	94.5	200	0.743	
urrogate: I-Chlorooctane	92.6 3	6 25.1-15	8						
urrogate: I-Chlorooctadecane	88.5 3	6 26.8-17	0						
Cardinal Laboratories								*=Accredit	ted Analyte
Killet 10% billy of Design. Coloris Is	ally and shares on	data analy in an e	in sign, sinther in-	d in and all as last sta	i la pose i	a Da anapel and to	alari be andres de s		
Anish Hoffe, Labora and Laborate a second state any other source obligation of the damage state including without installar, business informations, loss other is lossed upon any 47 to allow shallow manage an otherwithout state in the state of the state shallow manage an otherwite state in the state of the state shallow manage an otherwise state of the state of the state shallow manage an otherwise state of the state of the state shallow manage and state state of the state of the state shallow management of the state state of the state of the state state of the state o	i uning make in a	ring and reasonal by Co I partial instruct by start	edinal within thely (32) C. De materialeriae, atticate	they also maybles of a second string a	i Die application all of or main	n antia. In su ann Ial is Da pathronas	C shall Cardinal be lable	te balantat er s	anagarisi dengan
College The	1.0								
Celey D. Keene, Lab Director/O									

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				РНО	IE (575) 3	93-2326 ° 101	E. MARLAND ° HO	BB5, NM 883	240
		Analy	rtical Resul	ts For:					
			UBLIC BACKH	DE SERVICES					
			C GARCIA E. DICKENS RD)					
			INGTON NM, 8						
		Fax	To: NONE	5					
Received:	03/24/20			Sampling Date:			03/23/2017		
Reported: Project Name:	03/28/2017 SHELL ST#3			Sampling Type: Sampling Condition:			Soil Cool & Intact		
Project Number:	NONE GI					eived By:		Oldaker	
Project Location:	TATUM								
Sample ID: NW 20 (H7007	85-12)								
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* Total BTEX	<0.150	0.150	03/27/2017 03/27/2017	ND ND	5.44	90.7	6.00	4.67	
Surrogate: 4-Bromofluorobenzene (F									
Chioride, SM4500CI-B	mg/	-		d By: HM					
Analyte	Result	Reporting Limit	Analyzed 03/27/2017	Method Blank	85 432	% Recovery	True Value QC 400	RPD 0.00	Qualifie
TPH 8015M	<10.0 mg/			d By: M5	432	106	400	0.00	
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		% 25.1-15	-						
Surrogate: 1-Chlorooctadecane	92.9 % 25.1-15 96.6 % 26.8-17								
			-						
Cardinal Laboratories								*=Accredit	ted Analyt
Adda 10% usity of Design. Colorb	willy and shown a	ntaine neverly for any de	n atom atom boot	i in andresi an ini, ale	i la latal i	in the arrest public	alari be analyza di al		-
- any other second wholesame what he descend water including, without including, features interceptions, is	nd when wede in a	arting and reasonal by Co of profile instruct by share	ndinal within thirty (22)) In substantia, attistic	days after samplefun of the sources after a	The applicable of all an exist	n anniae. De les anne M de De parlamentes	C shall Cardinal Se Table	te leaterial en	araquetal de
alon is based open any of the alone shaled research or after	reite. Kessila reisia eriy	te fre samples the filled above	This report shall not be rep-	adaad araqi is Mi oʻib oo	See appreciated of S	Cardinal Laboratories.			
Colleg 2 the	E.M. 0								



Notes and Definitions

	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 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 SM4500CI-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 Lah	nratorias	*=Accredited Analy
any after area of including, affect had date is found upon any	Orabories Is not beings. Solvets helds of ducts and an endy for any size areas while hand is actual to bet, shi is includ to be analy and by she he any share whi is famed and when each is only not meand by boles with the JO JD app the meanter of the applicits areas. Is no used whi boles then interplace, han of any or has of peth hands by check, is address, efficient a meanum straig of it is which is the phonese of the another the address of the analysis. Much which also also also be applied and any shall and the bole agreed of Solver Likedows. The applied means or thereas. Much which also be any address the applied and any to be the other agreed of Solver Likedows. The applied means or the analysis of the any address the applied of the applied and any to be the advector of Solver Likedows.	n. Al daine, including Pass for registers in table for including or servery-order do
Contraction Contraction Contractions of the Contraction Contractions which is based upon con-	(b) we brought. Solida's bally not duck matchs made to any size using white land is match a loc, shall be like which is been used by its first of the solid be like and solid be any size with the solid be like and solid be any size with the solid be like and solid be like any solid be and solid be like and solid be	n. Al daine, including Pass for registers in table for including or servery-order do
Contraction Contraction Contractions of the Contraction Contractions which is based upon con-	le ed Sengan. Solitele helder oddere andere ande he ny sten entry white Land is mithed a lot, del la inde la Da entred al la steel he only dense del la dannel anna de la odda ed manal la factori ethe Dirk 20 day alse annatas et dir syntaksis mens. In en and del factori dense del la dannel anna de la or in al pella manal la dale, la solutione ether soname ether al de solution de province de la menta del factori d'hadre del manata inter al en e in al pella manal la dale. En solutione ether a soname ether al de solution de province de la menta d'hadre della menta etherni hadre delse la la solutione. The special ends which will be delta of the solution of the solution of the solution. Compared della dale della dale della dale della dale della solution della solution della dale della della della d	to take the instantial or surroupsected do

