Republic Backhoe Service, LLC 47 E. Dickens

Lovington, NM 88260

(575) 631-0131

January 14, 2019

District II

811 S. First St.

Artesia, NM 88210

Subject: Soil Remediation Work Plan for the Saragossa 10 State #2, Eddy County, New Mexico.

To Maria Pruett,

On behalf of Read & Stevens, Inc. Republic Backhoe Service LLC (RBS) has prepared this Work Plan which describes the assessment, delineation and proposed remediation for a release associated with the Saragossa 10 State #2. The site is located in Unit B, Section 10, Township 23 South, and Range 26 East, NMPM, Eddy County, New Mexico, on NM State land. Attachment #1 and #2 illustrates the vicinty and location of the site. Piedmont alluvial deposits from the Holocene to the Pleistocene age make up the subsurface of the area (mrdata.usgs.gov, Attachment #3). The surface is comprised of Regan Upton soils which consist of loamy deposits of quaternary age that are moderately dark colored and loamy. Hard caliche is encountered at 3-4 feet below the loamy surface (Soil Survey Eddy Area, NM 1971). The soil is generally dry except in times of rain. The site is not within a 100-year floodplain (FEMA Fimetter Map Attachment #9). The vegetation consists of black grama, blue grama, tobosa, side-outs, bush muhly, tarbush, creosote bush, vine mesquite, and yucca. The state of New Mexico owns the surface and is overseen by the State Land Office and leased out for grazing.

Table 1. below, summarizes information regarding the release. (See Attachments #10, #12, #13)

Release Details										
Type of Release:	O:I/DW/	Volume of Release:	17.24-Oil 140.67-Produced Water							
Type of Release:	Oil/PW	Volume Recovered:	2-Oil							
Source of Release:	Well Head	Date of Discovery:	10/27/2018							
Was Immediate Notice Given?	No	If, YES, to Whom?								
Was a Watercourse Reached?	No	If YES, Volume Impac	cting the Watercourse: NA							
Surface Owner:	State	Mineral Owner:	State							

Describe Cause of Problem and Remedial Action Taken:

The release was attributed to a 1" connection at the well head. The connection has since been replaced. A backhoe was called out on the day of the discovery which piled saturated soil on the pad.

### **Regulatory Guidelines**

New Mexico Oil Conversation Division (NMOCD) regulates surface impacts from unauthorized releases of crude oil, gases, produced water, condensate or other oil field waste in accordance with 19.15.29 of the New Mexico Administrative Code (NMAC). In accordance to NMAC 19.15.29 the Saragossa 10 State #2 is assessed by the following guidelines:

What is the shallowest depth to groundwater beneath the area affected by the release?	(ft bgs)
	☐ Yes No
Did this release impact groundwater or surface water?	☐ Yes No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary	Yes No
high-water mark)?	☐ Yes No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or	
church?	☐ Yes No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	Yes No
	Yes L No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes No
Are the lateral extents of the release within a 100-year floodplain?	Yes L No
Did the release impact areas not on an exploration, development, production, or storage site?	
The release occurred within the following areas and will treat the release as if it occurred less than 50 feet to ground water.	

A search of a groundwater database maintained by The New Mexico Office of the State Engineer (NMOSE) was conducted to determine the average depth to groundwater within 2000 meters and identify registered water wells within 2500 meters of the release site. (Attachments #4, 5). Furthermore, a new NMOSE groundwater search was conducted once the north extent of the spill was found (Attachment #6, 7) and concluded that the horizontal extents of the spill fell within 500 feet of a private domestic fresh water well, and within 1000' of any other fresh water wells. The site will be remediated to the following guidelines:

		ole I s Impacted by a Release	
Minimum depth below any point within the horizontal boundary of the release to ground water less than 10,000 mg/l TDS	Constituent	Method*	Limit**
≤ 50 feet	Chloride***	EPA 300.0 or SM4500 CI B	600 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

### **Site Assessment/Delineation**

On November 15, 2018, RBS went to the location to delineate the site. According to the Spill Calculations (See Attachment 13) 89% of the release stayed on the well pad. The additional 11% of the release travelled along a compacted cattle path for approxately 825 feet to the north of the location (See Attachment 10). The release poses no threat to ground water as laboratory results conclude that no contamination was found at or below 2' (bgs). Furthermore, soil samples collected and analyzed at 5' (bgs) show constituents level significantly lower than NMOCD permissible levels. A backhoe was used to dig a total of 16 trenches at the site (See Attachment #8). Samples were collected from the surface, 2 feet (bgs), and 5 feet (bgs). The following table summarizes the laboratory analytical results from the soil samples collected during the site assessment:

Name	Date	Depth	Chlorides	Benezene	BTEX	TPH(DRO,GRO.EXT	Lithology	Soil Class	Pad/Pasture	Within 1000' FW
Pad1-S	11/15/18	Surface	1180	<0.500	6.73	24,969(309,20600,4060)	Sandy	ML	Pad	No
Pad1-2	11/15/18	2	32	V0.300	<0.300	<10.0	Loam	CL	rau	IVO
Pad1-5	11/15/18	5	144		<0.300	<10.0	Caliche	CL		
Pad2-S	11/15/18	Surface	1710	<0.500	1.17	13,537(107,11200,2230)	Sandy	ML	Pad	No
				<b>\0.300</b>		. ,	<u> </u>		rau	IVO
Pad2-2	11/15/18	2	16		<0.300	<10.0	Loam	CL		
Pad2-5	11/15/18	5	16		<0.300	12.4(0,12.4,0)	Caliche			
Pad3-S	11/15/18	Surface	30,800	<0.500	3.89	6,680(130,5370,1180)	Sandy	ML	Pad	No
Pad3-2	11/15/18	2	208		<0.300	18.8(0,0,18.8)	Loam	CL		
Pad3-5	11/15/18	5	48.0		<0.300	<10.0	Caliche			
Pad4-S	11/15/18	Surface	4560		<0.300	73.2(0,62.2,11.0	Sandy	ML	Pad	No
Pad4-2	11/15/18	2	96		<0.300	<10.0	Loam	CL		
Pad4-5	11/15/18	5	64		<0.300	53.3(0,38.4,14.9)	Caliche			
TA1-S	11/15/18	Surface	3200	<0.500	6.09	25,257(227,20900,4230)	Sandy	ML	Pasture	No
TA1-2	11/15/18	2	64	-01000	<0.300	<10.0	Loam	CL	rusture	110
TA1-5	11/15/18	5	80		<0.300	<10.0	Caliche	- CL		
TA2-S	11/15/18	Surface	6960	<0.500	2.64	32,924(274,27600,5050)	Sandy	ML	Pasture	Yes
TA2-2	11/15/18	2	48		<0,300	<10.0	Loam	CL		
TA2-5	11/15/18	5	48		<0.300	12.8	Caliche			
TA3-S	11/15/18	Surface	288	<1.00	15.2	34,302(642,28600,5060)	Sandy	ML	Pasture	Yes
TA3-2	11/15/18	2	48		<0.300	<10.0	Loam	CL		
TA3-5	11/15/18	5	32		<0.300	<10.0	Caliche			
TA4-S	11/15/18	Surface	256	<0.500	16.6	32,508(1000,45600,8250)	Sandy	ML	Pasture	Yes
TA4-2	11/15/18	2	48		<.300	<10.00	Loam	CL		
TA4-5	11/15/18	5	336		<0.300	11.6	Caliche			
TA5-S	11/15/18	Surface	64		16.0	54,850	Sandy	ML	Pasture	Yes
TA5-2	11/15/18	2	32		<0.300	<10.0	Loam	CL		
TA5-5	11/15/18	5	16		<0.300	<10.0	Caliche			
TA6-S	11/15/18	Surface	32	<0.500	25.9	48,360(1290,40100,6970)	Sandy	ML	Pasture	Yes
TA6-2	11/15/18	2	48		<0.300	<10.0	Loam	CL		
TA6-5	11/15/18	5	80.0		<0.300	<10.00	Caliche			
TA7-S	11/15/18	Surface	16	<0.500	<0.300	4.476(32.3810.634)	Sandv	ML	Pasture	Yes
TA7-2	11/15/18	2	96		<0.300	<10.0	Loam	CL		
TA7-5	11/15/18	5′	80		<.300	12.3	Caliche			.,
TA8-S	11/15/18	Surface	48		<0.300	14.8	Sandy	ML	Pasture	Yes
TA8-2	11/15/18	2	32		<0.300	72.1	Loam	CL		
TA8-5	11/15/18 11/15/18	5 Sumface	16 32		<0.300	48.7	Caliche	N.41	Dashiiia	V
TA9-S	11/15/18	Surface 2	64		<0.300	110.5	Sandy	ML CL	Pasture	Yes
TA9-2 TA9-5	11/15/18	5	96		<0.300	<10.0 <10.0	Loam Caliche	CL		
TA10-S	11/15/18	Surface	32		<0.300	79.2	Sandy	ML	Pasture	Yes
TA10-2	11/18/18	2	32		<0.300	<10.0	Loam	CL	rusture	103
TA10-2	11/18/18	5	16		<0.300	<10.0	Caliche	CL		
TB1-S	11/15/18	Surface	160	<0.500	4.51	35,601(491,29800,5310)	Sandy	ML	Pasture	No
TB1-2	11/15/18	2	64		<0.300	<10.0	Loam	CL		
TB1-5	11/15/18	5	48		<0.300	<10.0	Caliche			
TB2-S	11/15/18	Surface	48	<0.500	1.71	43.778(398.36300.7080)	Sandy	ML	Pasture	no
TB2-2	11/15/18	2	64	31333	<0.300	<10.0	Loam	CL		
TB2-5	11/15/18	5	32		<0.300	<10.0	Caliche			

Chlorides-mg/kg, SM4500CI-B BTEX-mg/kg, 8021B TPH-mg/kg, 8015M

### **Remediation Plan**

### Pad Area Polygon #1: (See Attachment 10)

The site delineation concluded that the vertical extent of the spill was less than 2' (bgs). A sample at 5' (bgs) further confirms this result. The Polygon #1 area is 3,755 square feet. We propose that this area be excavated to a depth of 6". An estimated 70 cubic yards will be excavated from this area. The contaminated soil will be hauled to an NMOCD approved disposal site. NMOCD will be contacted to schedule a time to witness bottom hole sampling. Once, bottom hole samples are within NMOCD permissible limits then the area will be backfilled.

### Pad Area Polygon #2:

The site delineation concluded that the vertical extent of the spill was less than 2' (bgs). A sample at 5' (bgs) further confirms this result. The Polygon #2 area is 3,644 square feet. We propose that this area be excavated to a depth of 10". An estimated 113 cubic yards will be excavated from this area. The contaminated soil will be hauled to an NMOCD approved disposal site. NMOCD will be contacted to schedule a time to witness bottom hole sampling. Once, bottom hole samples are within NMOCD permissible limits then the area will be backfilled.

### Polygon #3:

The site delineation concluded that the vertical extent of the spill was less than 2' (bgs). A sample at 5' (bgs) further confirms this result. The Polygon #3 area is 644 square feet. We propose that this area be excavated to a depth of 4". An estimated 24 cubic yards will be excavated from this area. The contaminated soil will be hauled to an NMOCD approved disposal site. NMOCD will be contacted to schedule a time to witness bottom hole sampling. Once, bottom hole samples are within NMOCD permissible limits then the area will be backfilled.

### Polygon #4

The site delineation concluded that no action will be required.

### **Revegetation and Noxious Weed Management Plans**

Seed Mixture: Warm Season SSR Grass Seed Mix 350 (See Attachment 11)

Seed Rate: Acre: 50 lbs. /acre Timing of Dispersal: May 2018

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 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 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 areas. The area will be monitored for the following noxious weeds (but not limited to):

Jointed Goat Grass. Hoary Grass, Cheat Grass, African Rue, Yellow Starthistle, Malta, Starthistle, Purple Starthistle, Common Teasel, Camelthorn, and Russian Knapweed.

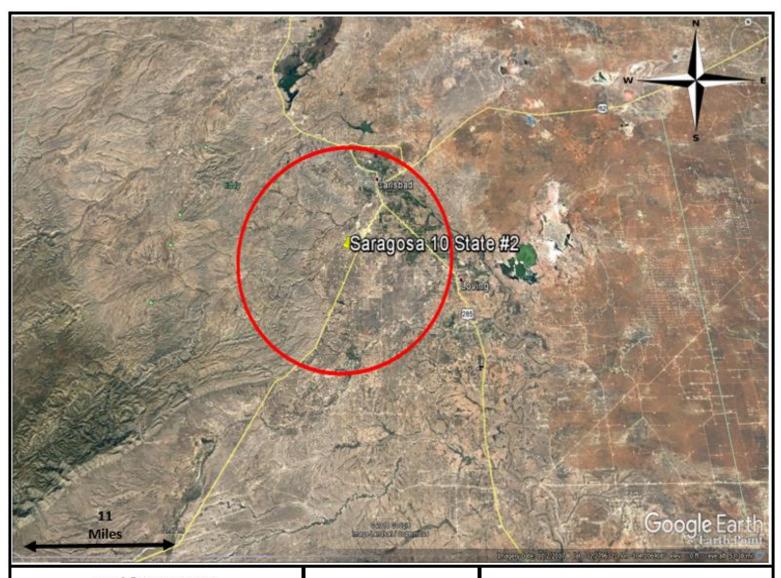
IF you have any questions please email me or call me at (575) 631-0131.

### Thank you

Cox Camp

Eric Garcia Republic Backhoe Service, LLC

Attachment 1
Vicinity Area Map



Read & Stevens Inc.

Saragossa 10 State #2

B-10-23S-26E (330FNL & 2310FEL)

GPS Lat: 32.325566 Lon:-104.279915

Republic Backhoe Service, LLC

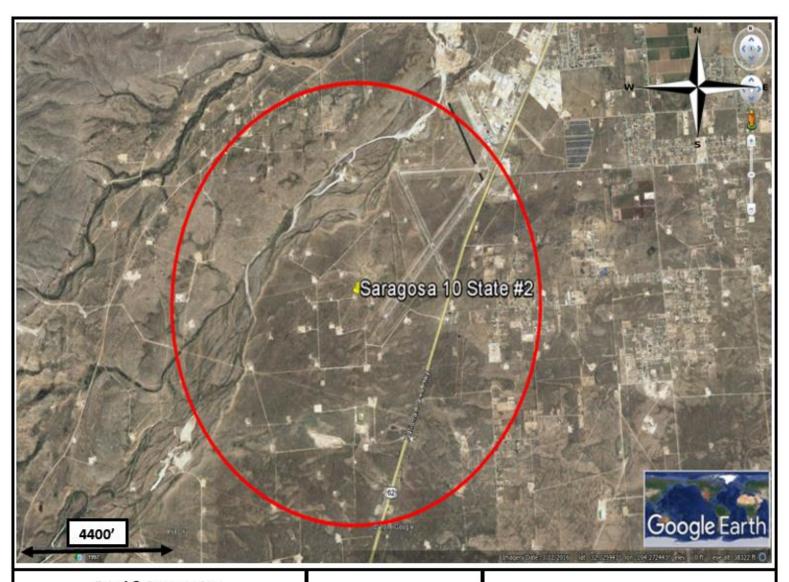
47 E. Dickens Rd.

Lovington, NM 88260

Aerial Map #1

10 Mile Radius

Attachment #2
Vicinity Area Map



Read & Stevens Inc.

Saragossa 10 State #2

B-10-23S-26E (330FNL & 2310FEL)

GPS Lat: 32.325566 Lon:-104.279915

Republic Backhoe Service, LLC

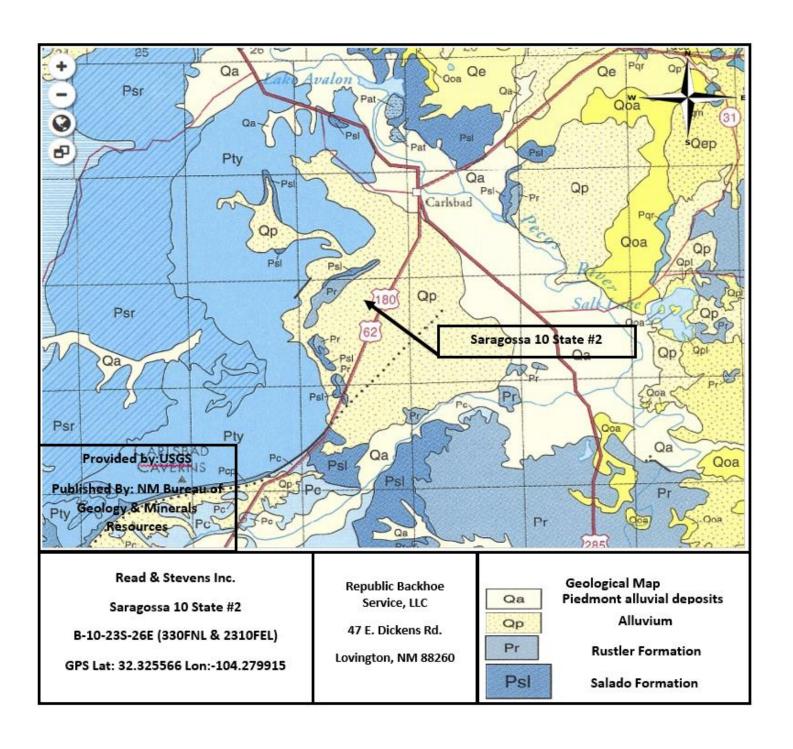
47 E. Dickens Rd.

Lovington, NM 88260

Aerial Map #2

2 Mile Radius

**Geological Map** 



# Attachment #4 NMOSE Average Depth to Water



### New Mexico Office of the State Engineer

### Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.) (R=POD has been replaced, O=orphaned, C=the file is

closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub- basin	County	1000	Q 16		ec	Tws	Rng	X	Y	DistanceDep	othWellDep		Vater olumn
C 02264		CUB	ED			4 0	3	238	26E	568065	3577254*	579	260		
C 02382		c	ED			4 0	3	23S	26E	568065	3577254*	579	288	248	40
C 02393		С	ED			4 0	)3	238	26E	568065	3577254*	579	290	245	45
C 01310		c	ED	1	3	2 1	1	238	26E	569409	3576366*	1675	250	220	30
C 01548		c	ED		3	2 1	1	238	26E	569510	3576267*	1798	250		
C 01635		c	ED		3	2 1	1	238	26E	569510	3576267*	1798	255	205	50
C 01708		C	ED		3	2 1	1	238	26E	569510	3576267*	1798	275	236	39
C 01843		C	ED		3	2 1	1	238	26E	569510	3576267*	1798	252	217	35

Average Depth to Water: 228 feet
Minimum Depth: 205 feet
Maximum Depth: 248 feet

Record Count: 8

UTMNAD83 Radius Search (in meters):

Easting (X): 567777.68 Northing (Y): 3576750.38 Radius: 2000

\*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/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.

1/9/19 10:46 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

Read & Stevens Inc.

Saragossa 10 State #2

B-10-23S-26E (330FNL & 2310FEL)

GPS Lat: 32.325566 Lon:-104.279915

Republic Backhoe Service, LLC

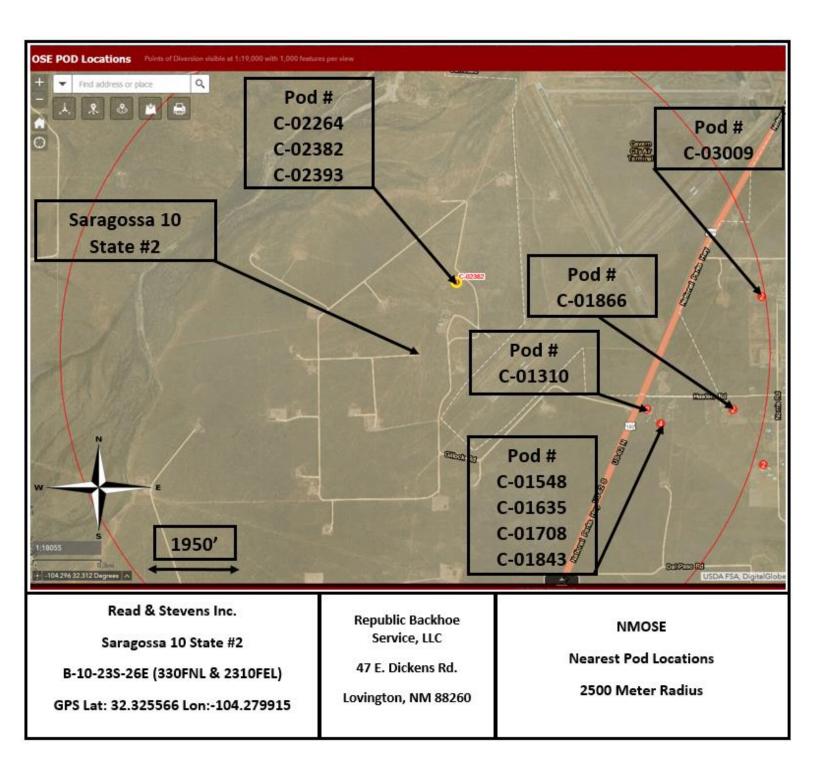
47 E. Dickens Rd.

Lovington, NM 88260

NMOSE

Water Column/Average Depth to Water
2000 Meter Radius

**Pod Locations** 



**Horizontal Extent of the Spill NMOSE Average Depth to Water** 



### New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.) (R=POD has been replaced, O=orphaned, C=the file is

closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

-	Cicoca)							e, (-					
		POD Sub-		QQQ								,	Water
POD Number	Code	basin	County	64 16 4	Sec	Tws	Rng	X	Y	DistanceDep	thWellDe	pthWater C	olumn
C 02264		CUB	ED	4	03	23\$	26E	568065	3577254* 🌑	372	260		
C 02382		C	ED	4	03	23\$	26E	568065	3577254* 🌑	372	288	248	40
C 02393		С	ED	4	03	238	26E	568065	3577254*	372	290	245	45

Correction\* C-02382 distance from Lateral Extent is 157.88 Meters.

C-2393 distance from Lateral Extent is 179.22 Meters.

Revised POD locations after talking with Rancher.

 Average Depth to Water:
 246 feet

 Minimum Depth:
 245 feet

 Maximum Depth:
 248 feet

Record Count: 3

UTMNAD83 Radius Search (in meters):

Easting (X): 567864.77 Northing (Y): 3576940.34 Radius: 1000

\*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/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.

1/10/19 9:03 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

Read & Stevens Inc.

Saragossa 10 State #2 B-10-23S-26E (330FNL & 2310FEL)

GPS Lat: 32.325566 Lon:-104.279915

Republic Backhoe Service, LLC

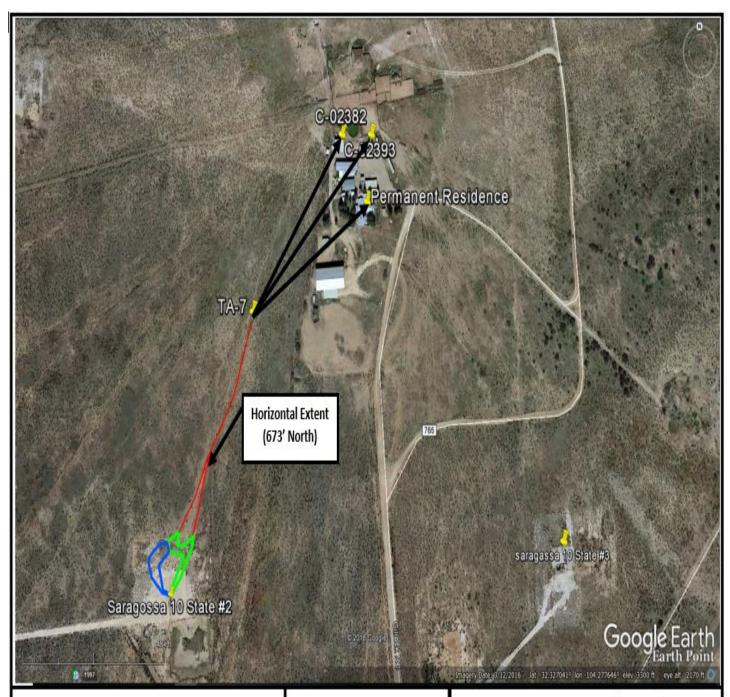
47 E. Dickens Rd.

Lovington, NM 88260

NMOSE Water Well Search
At North Extent of Spill
Sample Point TA7
1,000 Meter Radius

C-02382-518' C-02393-588'

**Pod Locations** 



Read & Stevens Inc.

Saragossa 10 State #2

B-10-23S-26E (330FNL & 2310FEL)

GPS Lat: 32.325566 Lon:-104.279915

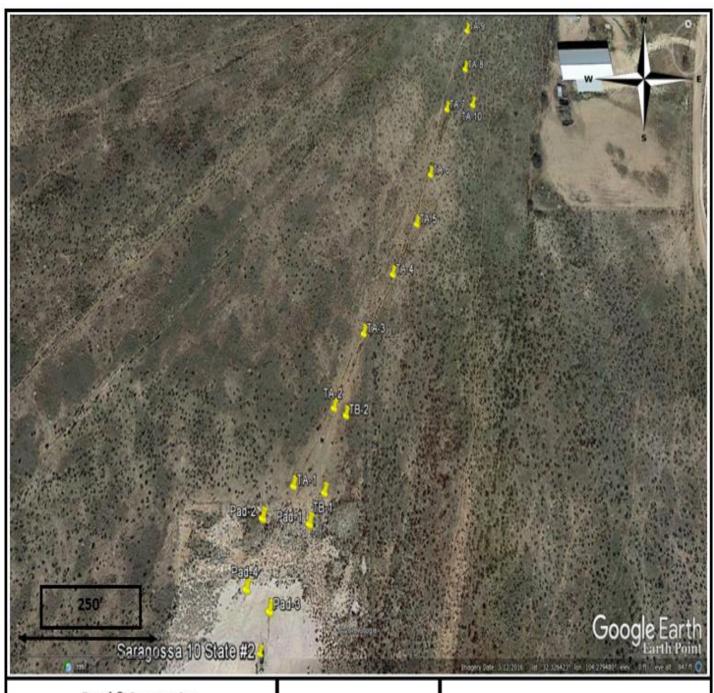
Republic Backhoe Service, LLC

47 E. Dickens Rd.

Lovington, NM 88260

NMOSE Water Well Search At North Extent of Spill Sample Point TA7

C-02382-518' C-02393-588' Permanent Residence-482' Attachment #8
Sampling Locations



Read & Stevens Inc.

Saragossa 10 State #2

B-10-23S-26E (330FNL & 2310FEL)

GPS Lat: 32.325566 Lon:-104.279915

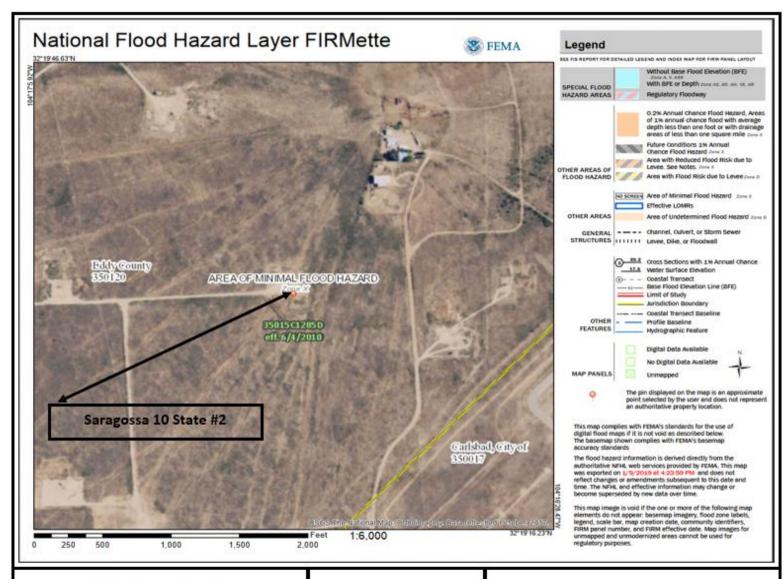
Republic Backhoe Service, LLC

47 E. Dickens Rd.

Lovington, NM 88260

**Sampling Locations** 

Floodplain Map



Read & Stevens Inc.

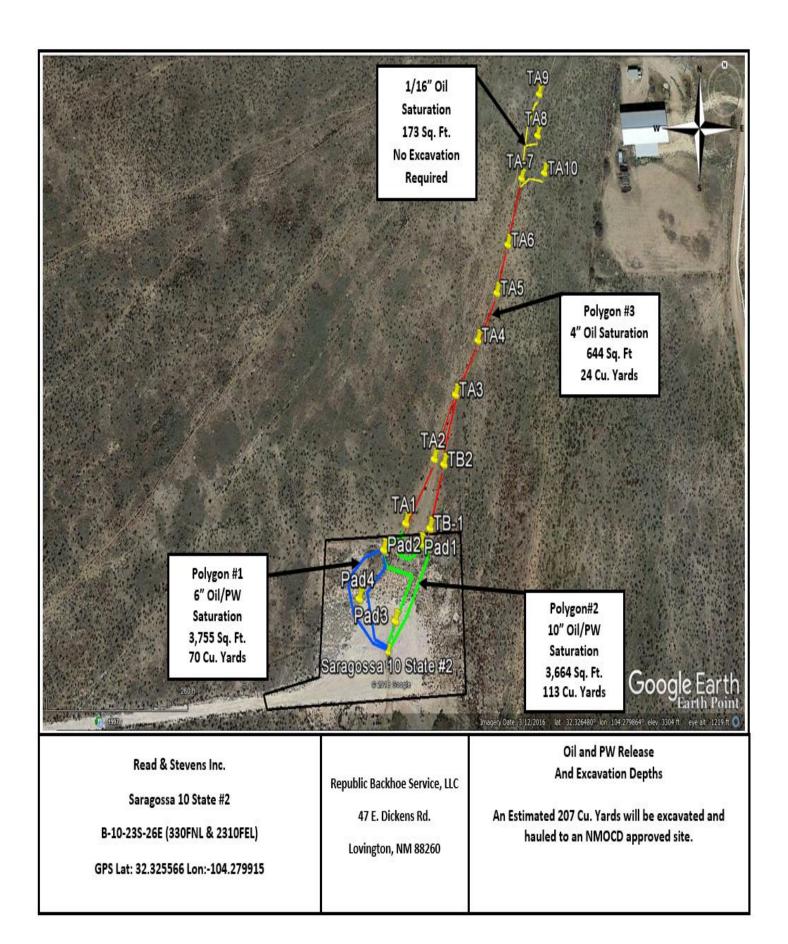
Saragossa 10 State #2 B-10-23S-26E (330FNL & 2310FEL)

GPS Lat: 32.325566 Lon:-104.279915

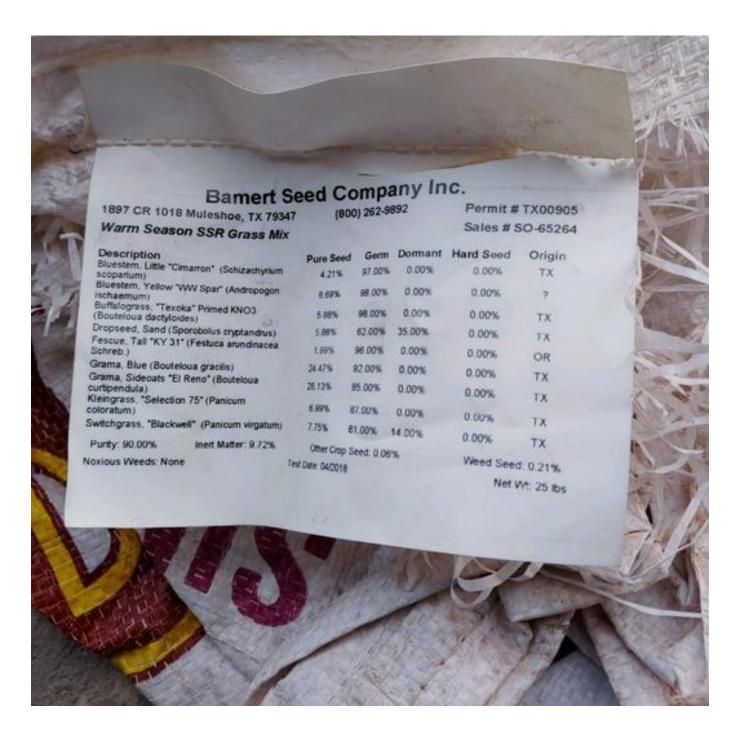
Republic Backhoe Service, LLC 47 E. Dickens Rd. Lovington, NM 88260

FEMA Flood Hazard Map

Attachment #10
Spill and Excavation Map



Attachment #11
Seed Label



**Soil Description** 

			Porosity [-	-]		
Description	USCS	min	max	Specific value	Reference	
Well graded gravel, sandy gravel, with little or no fines	GW	0.21	0.32		[1],	
Poorly graded gravel, sandy gravel, with little or no fines	GP	0.21	0.32		[1],	
Silty gravels, silty sandy gravels	GM	0.15	0.22		[1],	
Gravel	(GW-GP)	0.23	0.38		[2],	
Clayey gravels, clayey sandy gravels	GC	0.17	0.27		[1],	
Glatial till, very mixed grained	(GC)	-	-	0.20	[4 cited in 5]	
Well graded sands, gravelly sands, with little or no fines	sw	0.22	0.42		[1], [2],	
Coarse sand	(SW)	0.26	0.43		[2],	
Fine sand	(SW)	0.29	0.46		[2],	
Poorly graded sands, gravelly sands, with little or no fines	SP	0.23	0.43		[1], [2],	
Silty sands	SM	0.25	0.49		[1], [2],	
Clayey sands	sc	0.15	0.37		[1],	
Inorganic silts, silty or clayey fine sands, with slight plasticity	ML	0.21	0.56		[1],	
Uniform inorganic silt	(ML)	0.29	0.52		[3],	
Inorganic clays, silty clays, sandy clays of low plasticity	CL	0.29	0.41		[1],	
Organic silts and organic silty clays of low plasticity	OL	0.42	0.68		[1], [3],	
Silty or sandy clay	(CL-OL)	0.20	0.64		[3],	
Inorganic silts of high plasticity	мн	0.53	0.68		[1],	
Inorganic clays of high plasticity	СН	0.39	0.59		[1],	
Soft glacial clay	-	-	-	0.55	[4 cited in 5]	
Stiff glacial clay	-	-	-	0.38	[4 cited in 5]	
Organic clays of high plasticity	ОН	0.50	0.75		[1], [3],	
Soft slightly organic clay	(OH-OL)	-	-	0.66	[4] cited in [5]	
Peat and other highly organic soils	Pt	-	-		[4 cited in 5]	
soft very organic clay	(Pt)	-	-	0.75	[4] cited in [5]	

#### REFERENCES

- Swiss Standard SN 670 010b, Characteristic Coefficients of soils, Association of Swiss Road and Traffic Engineers
   Das, B., Advanced Soil Mechanics. Taylor & Francis, London & New York, 2008.
   Hough, B., Basic soil engineering. Ronald Press Company, New York, 1969.
   Terzaghi, K., Peck, R., and Mesri, G., Soil Mechanics in Engineering Practice. Wiley, New York, 1909.

- 1996.
  5. Obrzud R. & Truty, A.THE HARDENING SOIL MODEL A PRACTICAL GUIDEBOOK Z Soil.PC
  100701 report, revised 31.01.2012

Citation:
Geotechdata.info, Soil void ratio, http://geotechdata.info/parameter/soil-void-ratio.html (as of November 16, 2013).

**Spill Calculations** 

### \*\*\*\*\* LIQUID SPILLS - VOLUME CALCULATIONS \*\*\*\*\*

Location of Spill: Saragossa 10 State #2

Date of Spill: 10/26/2018

Site Soil Type: \_\_\_ Sandy Loam & Caliche

Average Daily Production: 13 BBL Oil 128 BBL Water

	Total Area Calculations  Total Surface Area Width Length Wet Soil Depth Oil (%) Soil Class.									
То	tal Surfa	ce Area	Width	Length	Wet Soil De	epth	Oil (%)	Soil Class.	Porosity%	
Polyg	gon #1	3,755				6"	5	GM	0.15	
Polyg	on #2	3,664				10"	5	GM/ML	0.18	
Polyg	gon #3	644				4"	99	ML/CL	0.25	
Polyg	gon #4	173				1/16"	99	ML	0.21	
Satura	ated Soil	Volume (	calculation	s:		<u>H2O</u>			OIL	
Polygo	n #1		1,877.5	50		47.60			2.50	
Polygo	n #2		3,05	53		92.98			4.89	
Polygo	n #3		2:	15		0.09			9.45	
Polygo	n #4		1	1		0.00			0.40	
Total S	Solid/ Lie	quid Volur	me:							
		Estimated	d Volumes	Spilled		H20			OIL	
						140.67			17.24	
		Liquid Rec	overed:			0			2	
		Total Spill	Liquid:			155	.91			

Please view Attachment 12 for the references in obtaining the Porosity values.

The soil classification was gathered from Soil Survey Eddy Area, New Mexico March 1971.

Polygon #1 is from the caliche pad with Soil Class GM.

Polygon #2 is located on the caliche pad with 6" of caliche (GM) and 4" of top soil (ML). Porosity % is the average of both.

Polygon #3 is located on the pasture where fluids ran down cattle path. Includes ML and CL soil. Porosity % is average of both.

Polygon #4 is located on the northern end of the spill. This was mostly a misty that was carried by the wind. Soil samples did not show any contamination in this area.

Attachment #14
Laboratory Analysis



November 27, 2018

ERIC GARCIA

REPUBLIC BACKHOE SERVICES

47 E. DICKENS RD

LOVINGTON, NM 88260

RE: SARAGOSSA 10 ST. #2

Enclosed are the results of analyses for samples received by the laboratory on 11/19/18 15:37.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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 <a href="https://www.tceq.texas.gov/field/qa/lab\_accred\_certif.html">www.tceq.texas.gov/field/qa/lab\_accred\_certif.html</a>.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

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

11/19/2018 Received: Reported: 11/27/2018 SARAGOSSA 10 ST. #2 Project Name: NONE GIVEN Project Number:

READ & STEVENS

11/15/2018 Sampling Date: Sampling Type: Soil Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

#### Sample ID: TA 7-5 (H803384-01)

Project Location:

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/24/2018	ND	2.15	108	2.00	2.25	
Toluene*	< 0.050	0.050	11/24/2018	ND	2.07	103	2.00	0.874	
Ethylbenzene*	< 0.050	0.050	11/24/2018	ND	2.01	100	2.00	1.42	
Total Xylenes*	< 0.150	0.150	11/24/2018	ND	5.90	98.4	6.00	1.89	
Total BTEX	<0.300	0.300	11/24/2018	ND					
urrogate: 4-Bromafluorobenzene (PIL 96.5 % 73.3-		% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	11/24/2018	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/21/2018	ND	187	93.5	200	3.29	
DRO >C10-C28*	<10.0	10.0	11/21/2018	ND	204	102	200	0.672	
EXT DRO >C28-C36	12.3	10.0	11/21/2018	ND					
Surrogate: 1-Chlorooctane	09.7								
	83.1	% 41-142							

Cardinal Laboratories \*=Accredited Analyte

NAME NOTE. Listify and Consigns. Controls listify and sharts maken a makey for any stars arising, whether issued or tody, shall be limited to the amount just by shall be analysise. All stars, including these for engagement and any other assess whitehomes what the desired control is to start or engagement of propagation service. In our count of the control is to take the installated or encountered discrepan-entating, which includes, become interruption, too of some in ord public instance, in which is start or excessers arising of of or which is the problematic of the survivant formula or to the control of the survivant formula or to the control of the contro

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Celey D. Keene, Lab Director/Quality Manager

Page 2 of 55



#### Analytical Results For:

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

 Received:
 11/19/2018

 Reported:
 11/27/2018

 Project Name:
 SARAGOSSA 10 ST. #2

 Project Number:
 NONE GIVEN

READ & STEVENS

Sampling Date: 11/15/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

### Sample ID: TA 4-5 (H803384-02)

Project Location:

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result Reporting Limit		Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/24/2018	ND	2.15	108	2.00	2.25	
Toluene*	< 0.050	0.050	11/24/2018	ND	2.07	103	2.00	0.874	
Ethylbenzene*	< 0.050	0.050	11/24/2018	ND	2.01	100	2.00	1.42	
Total Xylenes*	< 0.150	0.150	11/24/2018	ND	5.90	98.4	6.00	1.89	
Total BTEX	<0.300	0.300	11/24/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	95.1	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	11/24/2018	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyzed By: M5						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/21/2018	ND	187	93.5	200	3.29	
DRO >C10-C28*	<10.0	10.0	11/21/2018	ND	204	102	200	0.672	
EXT DRO >C28-C36	11.6	10.0	11/21/2018	ND					
Surrogate: I-Chiorooctane	91.8	% 41-142	}						
Surrogate: 1-Chlorooctadecane	94.65	% 37.6-14	7						

Cardinal Laboratories \*=Accredited Analyte

KEER 1979. Until y and Consept. Controls biblicy and shocks sensitive remark for any sizes arriving whether issued in section to bel, shall be believed and by shall be arrived as a size of the annual state of the annual state

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Celey D. Keene, Lab Director/Quality Manager

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

 Received:
 11/19/2018

 Reported:
 11/27/2018

 Project Name:
 SARAGOSSA 10 ST. #2

 Project Number:
 NONE GIVEN

READ & STEVENS

Sampling Date: 11/15/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

#### Sample ID: PAD 2-5 (H803384-03)

Project Location:

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifie
Benzene*	< 0.050	0.050	11/24/2018	ND	2.15	108	2.00	2.25	
Toluene*	< 0.050	0.050	11/24/2018	ND	2.07	103	2.00	0.874	
Ethylbenzene*	<0.050	0.050	11/24/2018	ND	2.01	100	2.00	1.42	
Total Xylenes*	< 0.150	0.150	11/24/2018	ND	5.90	98.4	6.00	1.89	
Total BTEX	<0.300	0.300	11/24/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	96.49	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/24/2018	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/21/2018	ND	187	93.5	200	3.29	
DRO >C10-C28*	12.4	10.0	11/21/2018	ND	204	102	200	0.672	
EXT DRO >C28-C36	<10.0	10.0	11/21/2018	ND					
Surrogate: 1-Chlorooctane	81.59	% 41-142							
Surrogate: 1-Chlorooctadecane	85.3 9	% 37.6-14	7						

Cardinal Laboratories \*=Accredited Analyte

MHH 50% builty and Consign. Controls builty and shared workers movely for any stars arrive, whether bound or bot, shall be been send and by shared for any stars arrived by the same whitehous what is described and so what which make it working and movement by Control with 10% (12) days after computing of the appealsh service. In one work shall Control to builty to include the smallest of services of the appealsh service. In one work shall Control to builty to be substantially shall be supported to the public territory, but one of some or way or has do not been abled account of the services for some formation in the control of the services formation of the servi

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Celey D. Keene, Lab Director/Quality Manager

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

 Received:
 11/19/2018
 Sampling Date:
 11/15/2018

 Reported:
 11/27/2018
 Sampling Type:
 Soil

Project Name: SARAGOSSA 10 ST. #2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson
Project Location: READ & STEVENS

#### Sample ID: TA 6-5 (H803384-04)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	11/24/2018	ND	2.15	108	2.00	2.25	
Toluene*	< 0.050	0.050	11/24/2018	ND	2.07	103	2.00	0.874	
Ethylbenzene*	<0.050	0.050	11/24/2018	ND	2.01	100	2.00	1.42	
Total Xylenes*	<0.150	0.150	11/24/2018	ND	5.90	98.4	6.00	1.89	
Total BTEX	<0.300	0.300	11/24/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	96.9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	11/24/2018	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/21/2018	ND	187	93.5	200	3.29	
DRO >C10-C28*	<10.0	10.0	11/21/2018	ND	204	102	200	0.672	
EXT DRO >C28-C36	<10.0	10.0	11/21/2018	ND					
Surrogate: 1-Chlorooctane	86.5	% 41-142							
Surrogate: 1-Chlorooctadecane	89.3	% 37.6-14	7						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Page 5 of 55



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

 Received:
 11/19/2018

 Reported:
 11/27/2018

 Project Name:
 SARAGOSSA 10 ST. #2

 Project Number:
 NONE GIVEN

 Project Location:
 READ & STEVENS

Sampling Date: 11/15/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

#### Sample ID: PAD 3-5 (H803384-05)

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	11/24/2018	ND	2.15	108	2.00	2.25	
Toluene*	< 0.050	0.050	11/24/2018	ND	2.07	103	2.00	0.874	
Ethylbenzene*	< 0.050	0.050	11/24/2018	ND	2.01	100	2.00	1.42	
Total Xylenes*	< 0.150	0.150	11/24/2018	ND	5.90	98.4	6.00	1.89	
Total BTEX	<0.300	0.300	11/24/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	97.5	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/24/2018	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/21/2018	ND	187	93.5	200	3.29	
DRO >C10-C28*	<10.0	10.0	11/21/2018	ND	204	102	200	0.672	
EXT DRO >C28-C36	<10.0	10.0	11/21/2018	ND					
Surrogate: 1-Chiorooctane	84.65	% 41-142	}						
Surrogate: 1-Chlorooctadecane	84.1	% 37.6-14	7						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

 Received:
 11/19/2018

 Reported:
 11/27/2018

 Project Name:
 SARAGOSSA 10 ST. #2

Project Name: SARAGOSSA 10 ST.
Project Number: NONE GIVEN
Project Location: READ & STEVENS

Sampling Date: 11/15/2018 Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Jodi Henson

## Sample ID: PAD 1-5 (H803384-06)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	11/24/2018	ND	2.15	108	2.00	2.25	
Toluene*	< 0.050	0.050	11/24/2018	ND	2.07	103	2.00	0.874	
Ethylbenzene*	< 0.050	0.050	11/24/2018	ND	2.01	100	2.00	1.42	
Total Xylenes*	< 0.150	0.150	11/24/2018	ND	5.90	98.4	6.00	1.89	
Total BTEX	<0.300	0.300	11/24/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	96.8	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifie
Chloride	144	16.0	11/24/2018	ND	432	108	400	0.00	QR-03
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10*	<10.0	10.0	11/21/2018	ND	187	93.5	200	3.29	
DRO >C10-C28*	<10.0	10.0	11/21/2018	ND	204	102	200	0.672	
EXT DRO >C28-C36	<10.0	10.0	11/21/2018	ND					
Surrogate: 1-Chlorooctane	84.7	% 41-142	!						
Surrogate: 1-Chlorooctadecane	82.5	% 37.6-14	7						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

 Received:
 11/19/2018

 Reported:
 11/27/2018

 Project Name:
 SARAGOSSA 10 ST. #2

 Project Number:
 NONE GIVEN

 Project Location:
 READ & STEVENS

Sampling Date: 11/15/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

#### Sample ID: PAD 3-2 (H803384-07)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	11/24/2018	ND	2.15	108	2.00	2.25	
Toluene*	< 0.050	0.050	11/24/2018	ND	2.07	103	2.00	0.874	
Ethylbenzene*	< 0.050	0.050	11/24/2018	ND	2.01	100	2.00	1.42	
Total Xylenes*	< 0.150	0.150	11/24/2018	ND	5.90	98.4	6.00	1.89	
Total BTEX	<0.300	0.300	11/24/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	96.5	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	11/24/2018	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/21/2018	ND	187	93.5	200	3.29	
DRO >C10-C28*	<10.0	10.0	11/21/2018	ND	204	102	200	0.672	
EXT DRO >C28-C36	18.8	10.0	11/21/2018	ND					
Surrogate: I-Chlorooctane	89.2	% 41-142	7						
Surrogate: 1-Chlorooctadecane	91.3	% 37.6-14	7						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

 Received:
 11/19/2018
 Sampling Date:
 11/15/2018

 Reported:
 11/27/2018
 Sampling Type:
 Soil

 Project Name:
 SARAGOSSA 10 ST. #2
 Sampling Condition:
 Cool & Intact

 Project Number:
 NONE GIVEN
 Sample Received By:
 Jodi Henson

 Project Location:
 READ & STEVENS

### Sample ID: TA 3 - SURFACE (H803384-08)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	11/24/2018	ND	2.15	108	2.00	2.25	
Toluene*	<1.00	1.00	11/24/2018	ND	2.07	103	2.00	0.874	
Ethylbenzene*	2.24	1.00	11/24/2018	ND	2.01	100	2.00	1.42	
Total Xylenes*	12.9	3.00	11/24/2018	ND	5.90	98.4	6.00	1.89	
Total BTEX	15.2	6.00	11/24/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	105	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	11/24/2018	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					5-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	642	100	11/21/2018	ND	187	93.5	200	3.29	
DRO >C10-C28*	28600	100	11/21/2018	ND	204	102	200	0.672	
	5060	100	11/21/2018	ND					
EXT DRO >C28-C36	3000								
EXT DRO >C28-C36  Surrogate: 1-Chiorooctane	190		1						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

 Received:
 11/19/2018
 Sampling Date:
 11/15/2018

 Reported:
 11/27/2018
 Sampling Type:
 Soil

Project Name: SARAGOSSA 10 ST. #2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: READ & STEVENS

#### Sample ID: TA 7-2 (H803384-09)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	11/24/2018	ND	2.15	108	2.00	2.25	
Toluene*	<0.050	0.050	11/24/2018	ND	2.07	103	2.00	0.874	
Ethylbenzene*	<0.050	0.050	11/24/2018	ND	2.01	100	2.00	1.42	
Total Xylenes*	< 0.150	0.150	11/24/2018	ND	5.90	98.4	6.00	1.89	
Total BTEX	<0.300	0.300	11/24/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	97.0	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	11/24/2018	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/21/2018	ND	187	93.5	200	3.29	
DRO >C10-C28*	<10.0	10.0	11/21/2018	ND	204	102	200	0.672	
EXT DR0 >C28-C36	<10.0	10.0	11/21/2018	ND					
Surrogate: 1-Chlorooctane	84.4	% 41-142	?						
Surrogate: 1-Chlorooctadecane	83.9	% 37.6-14	7						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

Fax To: NONE

Received: 11/19/2018 11/27/2018 Reported: Project Name: SARAGOSSA 10 ST. #2 Project Number: NONE GIVEN READ & STEVENS

Sampling Date: 11/15/2018 Sampling Type: Soil Sampling Condition:

Sample Received By:

Cool & Intact Jodi Henson

### Sample ID: PAD 4-2 (H803384-10)

Project Location:

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	11/24/2018	ND	2.15	108	2.00	2.25	
Toluene*	< 0.050	0.050	11/24/2018	ND	2.07	103	2.00	0.874	
Ethylbenzene*	< 0.050	0.050	11/24/2018	ND	2.01	100	2.00	1.42	
Total Xylenes*	< 0.150	0.150	11/24/2018	ND	5.90	98.4	6.00	1.89	
Total BTEX	<0.300	0.300	11/24/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	97.0	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifie
Chloride	96.0	16.0	11/24/2018	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10*	<10.0	10.0	11/21/2018	ND	187	93.5	200	3.29	
DRO >C10-C28*	<10.0	10.0	11/21/2018	ND	204	102	200	0.672	
EXT DRO >C28-C36	<10.0	10.0	11/21/2018	ND					
Surrogate: I-Chiorooctane	85.5	% 41-142							
Surrogate: 1-Chlorooctadecane	84.9	% 37.6-14	7						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

 Received:
 11/19/2018

 Reported:
 11/27/2018

 Project Name:
 SARAGOSSA 10 ST. #2

 Project Number:
 NONE GIVEN

 Project Location:
 READ & STEVENS

Sampling Date: 11/15/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

#### Sample ID: TA 2 - SURFACE (H803384-11)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.500	0.500	11/24/2018	ND	2.15	108	2.00	2.25	
Toluene*	<0.500	0.500	11/24/2018	ND	2.07	103	2.00	0.874	
Ethylbenzene*	<0.500	0.500	11/24/2018	ND	2.01	100	2.00	1.42	
Total Xylenes*	2.64	1.50	11/24/2018	ND	5.90	98.4	6.00	1.89	
Total BTEX	<3.00	3.00	11/24/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifie
Chloride	6960	16.0	11/24/2018	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					5-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10*	274	100	11/21/2018	ND	187	93.5	200	3.29	
DRO >C10-C28*	27600	100	11/21/2018	ND	204	102	200	0.672	
EXT DRO >C28-C36	5050	100	11/21/2018	ND					
Surrogate: I-Chlorooctane	147 5	% 41-142	7						

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Celey D. Keene, Lab Director/Quality Manager



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

Fax To: NONE

Received: 11/19/2018 Sampling Date: 11/15/2018 11/27/2018 Sampling Type: Reported: Soil

Project Name: SARAGOSSA 10 ST. #2 Sampling Condition: Cool & Intact Sample Received By: Jodi Henson Project Number: NONE GIVEN READ & STEVENS Project Location:

### Sample ID: TA 10 - SURFACE (H803384-12)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	11/25/2018	ND	2.15	108	2.00	2.25	
Toluene*	<0.050	0.050	11/25/2018	ND	2.07	103	2.00	0.874	
Ethylbenzene*	<0.050	0.050	11/25/2018	ND	2.01	100	2.00	1.42	
Total Xylenes*	< 0.150	0.150	11/25/2018	ND	5.90	98.4	6.00	1.89	
Total BTEX	<0.300	0.300	11/25/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	96.7	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/24/2018	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/21/2018	ND	187	93.5	200	3.29	
DRO >C10-C28*	56.3	10.0	11/21/2018	ND	204	102	200	0.672	
EXT DRO >C28-C36	24.9	10.0	11/21/2018	ND					
Surrogate: 1-Chiorooctane	82.8	% 41-142							
Surrogate: 1-Chlorooctadecane	84.25	% 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager

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

 Received:
 11/19/2018

 Reported:
 11/27/2018

 Project Name:
 SARAGOSSA 10 ST. #2

 Project Number:
 NONE GIVEN

 Project Location:
 READ & STEVENS

Sampling Date: 11/15/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

#### Sample ID: TA 4-2 (H803384-13)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/25/2018	ND	2.15	108	2.00	2.25	
Toluene*	< 0.050	0.050	11/25/2018	ND	2.07	103	2.00	0.874	
Ethylbenzene*	<0.050	0.050	11/25/2018	ND	2.01	100	2.00	1.42	
Total Xylenes*	< 0.150	0.150	11/25/2018	ND	5.90	98.4	6.00	1.89	
Total BTEX	<0.300	0.300	11/25/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	98.4	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/24/2018	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2018	ND	193	96.7	200	3.55	
DRO >C10-C28*	<10.0	10.0	11/22/2018	ND	209	104	200	4.42	
EXT DRO >C28-C36	<10.0	10.0	11/22/2018	ND					
Surrogate: 1-Chlorooctane	89.2	% 41-142	7						
Surrogate: 1-Chlorooctadecane	99.5	% 37.6-14	7						

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KEER 107%. Until y and Consepts. Confirst lattify and about sension meanly for any sizes arising whether based to bed, that its behind in the annual part by shed for analysis. At sizes, including these for expression and only state season whitehers what its descend named with make it medical without the lattife, its part of the analysis series. In or send with Confirst its lattife to encapsually decorage, without lattifes, because therefore, has an internal with an internal part of the analysis of the lattifes, because of the series therefore, has a view or when the analysis of the lattifes with the lattifes, and the lattifes when a lattife series and the analysis of the lattifes with the lattifes and the analysis of the lattifes with the lattifes and the analysis of the lattifes with the lattifes and the analysis of the lattifes with the color agrees of Confirst Literalized.

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Celey D. Keene, Lab Director/Quality Manager

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

 Received:
 11/19/2018

 Reported:
 11/27/2018

 Project Name:
 SARAGOSSA 10 ST. #2

 Project Number:
 NONE GIVEN

 Project Location:
 READ & STEVENS

Sampling Date: 11/15/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

## Sample ID: TB 1 - SURFACE (H803384-14)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	11/25/2018	ND	2.15	108	2.00	2.25	
Toluene*	<0.500	0.500	11/25/2018	ND	2.07	103	2.00	0.874	
Ethylbenzene*	<0.500	0.500	11/25/2018	ND	2.01	100	2.00	1.42	
Total Xylenes*	4.51	1.50	11/25/2018	ND	5.90	98.4	6.00	1.89	
Total BTEX	4.51	3.00	11/25/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	109 9	6 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	11/24/2018	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					5-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	491	100	11/22/2018	ND	193	96.7	200	3.55	
DRO >C10-C28*	29800	100	11/22/2018	ND	209	104	200	4.42	
EXT DRO >C28-C36	5310	100	11/22/2018	ND					
Surrogate: 1-Chlorooctane	123 9	6 41-142	7						
Surrogate: 1-Chlorooctadecane									

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

 Received:
 11/19/2018

 Reported:
 11/27/2018

 Project Name:
 SARAGOSSA 10 ST. #2

 Project Number:
 NONE GIVEN

 Project Location:
 READ & STEVENS

Sampling Date: 11/15/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

## Sample ID: PAD 1 - SURFACE (H803384-15)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.500	0.500	11/25/2018	ND	2.15	108	2.00	2.25	
Toluene*	<0.500	0.500	11/25/2018	ND	2.07	103	2.00	0.874	
Ethylbenzene*	1.02	0.500	11/25/2018	ND	2.01	100	2.00	1.42	
Total Xylenes*	5.71	1.50	11/25/2018	ND	5.90	98.4	6.00	1.89	
Total BTEX	6.73	3.00	11/25/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	107 5	6 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	1180	16.0	11/24/2018	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					5-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10*	309	100	11/22/2018	ND	193	96.7	200	3.55	
DRO >C10-C28*	20600	100	11/22/2018	ND	209	104	200	4.42	
EXT DRO >C28-C36	4060	100	11/22/2018	ND					
Surrogate: 1-Chlorooctane	132 5	% 41-142							
Surrogate: 1-Chlorooctadecane	668 5	% 37.6-14	7						

Cardinal Laboratories \*=Accredited Analyte

NAMES 107%. Liability and Comagns. Contracts lability and shareds maken's money for any starm arriving, whether issued or body, what is labeled to the amount yet the started to started without the started or any other sound with the started account the produced or the started or any substant markets. In our sevent with Contract the started or any started sevents. In our sevent with Contract the started or any started sevents, to the started or any started sevents, the started or any started sevents are started sevents. In our started sevents are started as the produced sevents are started as the started started

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Celey D. Keene, Lab Director/Quality Manager

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

 Received:
 11/19/2018
 Sampling Date:
 11/15/2018

 Reported:
 11/27/2018
 Sampling Type:
 Soil

Project Name: SARAGOSSA 10 ST. #2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: READ & STEVENS

#### Sample ID: TB 2 - SURFACE (H803384-16)

BTEX 8021B	mg/	kg	Analyze	d By: MS					5-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/25/2018	ND	2.15	108	2.00	2.25	
Toluene*	<0.050	0.050	11/25/2018	ND	2.07	103	2.00	0.874	
Ethylbenzene*	<0.050	0.050	11/25/2018	ND	2.01	100	2.00	1.42	
Total Xylenes*	1.71	0.150	11/25/2018	ND	5.90	98.4	6.00	1.89	
Total BTEX	1.71	0.300	11/25/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	153 5	6 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/24/2018	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					5-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	398	100	11/22/2018	ND	193	96.7	200	3.55	
DRO >C10-C28*	36300	100	11/22/2018	ND	209	104	200	4.42	
EXT DRO >C28-C36	7080	100	11/22/2018	ND					
Surrogate: 1-Chlorooctane	126 5	% 41-142	}						
Surrogate: 1-Chlorooctadecane	1120	% 37.6-14	7						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

 Received:
 11/19/2018

 Reported:
 11/27/2018

 Project Name:
 SARAGOSSA 10 ST. #2

 Project Number:
 NONE GIVEN

 Project Location:
 READ & STEVENS

Sampling Date: 11/15/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

## Sample ID: PAD 2 - SURFACE (H803384-17)

BTEX 8021B	mg/	kg	Analyze	d By: MS					5-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/25/2018	ND	2.15	108	2.00	2.25	
Toluene*	< 0.050	0.050	11/25/2018	ND	2.07	103	2.00	0.874	
Ethylbenzene*	<0.050	0.050	11/25/2018	ND	2.01	100	2.00	1.42	
Total Xylenes*	1.17	0.150	11/25/2018	ND	5.90	98.4	6.00	1.89	
Total BTEX	1.17	0.300	11/25/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	133 5	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Chloride	1710	16.0	11/24/2018	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					5-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	107	50.0	11/22/2018	ND	193	96.7	200	3.55	
DRO >C10-C28*	11200	50.0	11/22/2018	ND	209	104	200	4.42	
EXT DRO >C28-C36	2230	50.0	11/22/2018	ND					
Surrogate: I-Chiorooctane	107	% 41-142	}						
Surrogate: 1-Chlorooctadecane	406	% 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager

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

Received: 11/19/2018 Sampling Date: 11/15/2018 Reported: 11/27/2018 Sampling Type: Soil SARAGOSSA 10 ST. #2 Sampling Condition: Cool & Intact Project Name: Project Number: NONE GIVEN Sample Received By: Jodi Henson READ & STEVENS Project Location:

## Sample ID: TA 9 - SURFACE (H803384-18)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifie
Benzene*	< 0.050	0.050	11/25/2018	ND	2.15	108	2.00	2.25	
Toluene*	< 0.050	0.050	11/25/2018	ND	2.07	103	2.00	0.874	
Ethylbenzene*	<0.050	0.050	11/25/2018	ND	2.01	100	2.00	1.42	
Total Xylenes*	< 0.150	0.150	11/25/2018	ND	5.90	98.4	6.00	1.89	
Total BTEX	<0.300	0.300	11/25/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	96.99	6 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	32.0	16.0	11/24/2018	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10*	<10.0	10.0	11/22/2018	ND	193	96.7	200	3.55	
DRO >C10-C28*	72.9	10.0	11/22/2018	ND	209	104	200	4.42	
EXT DRO >C28-C36	37.6	10.0	11/22/2018	ND					
Surrogate: 1-Chiorooctane	70.69	6 41-142							
Surrogate: 1-Chlorooctadecane	81.19	6 37.6-14	7						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

 Received:
 11/19/2018

 Reported:
 11/27/2018

 Project Name:
 SARAGOSSA 10 ST. #2

 Project Number:
 NONE GIVEN

 Project Location:
 READ & STEVENS

Sampling Date: 11/15/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

## Sample ID: TA 5-2 (H803384-19)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/25/2018	ND	2.15	108	2.00	2.25	
Toluene*	<0.050	0.050	11/25/2018	ND	2.07	103	2.00	0.874	
Ethylbenzene*	<0.050	0.050	11/25/2018	ND	2.01	100	2.00	1.42	
Total Xylenes*	< 0.150	0.150	11/25/2018	ND	5.90	98.4	6.00	1.89	
Total BTEX	<0.300	0.300	11/25/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	96.8	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/24/2018	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2018	ND	193	96.7	200	3.55	
DRO >C10-C28*	<10.0	10.0	11/22/2018	ND	209	104	200	4.42	
EXT DRO >C28-C36	<10.0	10.0	11/22/2018	ND					
Surrogate: 1-Chlorooctane	89.7	% 41-142	!						
Surrogate: 1-Chlorooctadecane	98.1	% 37.6-14	7						

Cardinal Laboratories \*=Accredited Analyte

NAME 1976. Lightly and Consepor. Controls lightly and shareds controls control for any stars princy, whether issued in such at the first in brinds in the control part by start the controls. It stars, bearing these for registers and any office some whicheave what the description and controls are controlled to controls. It is such as the control of controls are controlled to the control of controls are controlled to the control of the control of controls and controls. The control to the control of the control of the control to the control to the control of the control of

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Celey D. Keene, Lab Director/Quality Manager

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

Received: 11/19/2018 Sampling Date: 11/15/2018 Reported: 11/27/2018 Sampling Type: Soil SARAGOSSA 10 ST. #2 Sampling Condition: Sample Received By: Cool & Intact Project Name: NONE GIVEN READ & STEVENS Project Number: Jodi Henson Project Location:

#### Sample ID: PAD 2-2 (H803384-20)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	11/25/2018	ND	2.19	109	2.00	1.08	
Toluene*	<0.050	0.050	11/25/2018	ND	2.19	109	2.00	0.189	
Ethylbenzene*	<0.050	0.050	11/25/2018	ND	2.11	106	2.00	0.0513	
Total Xylenes*	<0.150	0.150	11/25/2018	ND	6.34	106	6.00	0.516	
Total BTEX	<0.300	0.300	11/25/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	95.2	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifie
Chloride	16.0	16.0	11/24/2018	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10*	<10.0	10.0	11/22/2018	ND	193	96.7	200	3.55	
DRO >C10-C28*	<10.0	10.0	11/22/2018	ND	209	104	200	4.42	
EXT DRO >C28-C36	<10.0	10.0	11/22/2018	ND					
Surrogate: 1-Chlorooctane	79.4	% 41-142							

Cardinal Laboratories \*=Accredited Analyte

KEER 1979. Until y and Consept. Controls biblicy and shocks sensitive remark for any sizes arriving whether issued in section to bel, shall be the sensed and by shall be assumed as a size of the sensed and control be sensed as a size of the sensed and Control be belief the sensed of the sensed and Control be belief the sensed of the sense of

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Celey D. Keene, Lab Director/Quality Manager

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

Received: 11/19/2018 11/27/2018 Reported: Project Name: SARAGOSSA 10 ST. #2 NONE GIVEN Project Number: READ & STEVENS

Sampling Date: 11/15/2018 Sampling Type: Soil

Cool & Intact Sampling Condition: Sample Received By: Jodi Henson

### Sample ID: TA 1-2 (H803384-21)

Project Location:

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	11/25/2018	ND	2.19	109	2.00	1.08	
Toluene*	< 0.050	0.050	11/25/2018	ND	2.19	109	2.00	0.189	
Ethylbenzene*	<0.050	0.050	11/25/2018	ND	2.11	106	2.00	0.0513	
Total Xylenes*	< 0.150	0.150	11/25/2018	ND	6.34	106	6.00	0.516	
Total BTEX	<0.300	0.300	11/25/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	96.4	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifie
Chloride	64.0	16.0	11/24/2018	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10*	<10.0	10.0	11/22/2018	ND	193	96.7	200	3.55	
DRO >C10-C28*	<10.0	10.0	11/22/2018	ND	209	104	200	4.42	
EXT DRO >C28-C36	<10.0	10.0	11/22/2018	ND					
Surrogate: 1-Chlorooctane	87.4	% 41-142							
Surrogate: 1-Chlorooctadecane	95.8	% 37.6-14	7						

\*=Accredited Analyte Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

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

 Received:
 11/19/2018

 Reported:
 11/27/2018

 Project Name:
 SARAGOSSA 10 ST. #2

 Project Number:
 NONE GIVEN

 Project Location:
 READ & STEVENS

Sampling Date: 11/15/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

#### Sample ID: TA 5 - SURFACE (H803384-22)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.500	0.500	11/25/2018	ND	2.19	109	2.00	1.08	
Toluene*	<0.500	0.500	11/25/2018	ND	2.19	109	2.00	0.189	
Ethylbenzene*	2.42	0.500	11/25/2018	ND	2.11	106	2.00	0.0513	
Total Xylenes*	13.6	1.50	11/25/2018	ND	6.34	106	6.00	0.516	
Total BTEX	16.0	3.00	11/25/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	115 9	6 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifie
Chloride	64.0	16.0	11/24/2018	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					5-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10*	1000	100	11/22/2018	ND	193	96.7	200	3.55	
DRO >C10-C28*	45600	100	11/22/2018	ND	209	104	200	4.42	
EXT DRO >C28-C36	8250	100	11/22/2018	ND					
Surrogate: 1-Chlorooctane	144 9	6 41-142							
Surrogate: 1-Chlorooctadecane	1330	% 37.6-14	7						

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

Received: 11/19/2018 Sampling Date: 11/15/2018 Reported: 11/27/2018 Sampling Type: Soil SARAGOSSA 10 ST. #2 Project Name: Sampling Condition: Cool & Intact Project Number: NONE GIVEN Sample Received By: Jodi Henson READ & STEVENS Project Location:

## Sample ID: PAD 3- SURFACE (H803384-23)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	11/25/2018	ND	2.19	109	2.00	1.08	
Toluene*	< 0.500	0.500	11/25/2018	ND	2.19	109	2.00	0.189	
Ethylbenzene*	<0.500	0.500	11/25/2018	ND	2.11	106	2.00	0.0513	
Total Xylenes*	3.89	1.50	11/25/2018	ND	6.34	106	6.00	0.516	
Total BTEX	3.89	3.00	11/25/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103 9	6 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Chloride	30800	16.0	11/24/2018	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					5-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	130	50.0	11/22/2018	ND	193	96.7	200	3.55	
DRO >C10-C28*	5370	50.0	11/22/2018	ND	209	104	200	4.42	
EXT DRO >C28-C36	1180	50.0	11/22/2018	ND					
Surrogate: 1-Chlorooctane	104 9	6 41-142	!						
Surrogate: 1-Chlorooctadecane	272 9	6 37.6-14	7						

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KEER 1979. Until y and Comagns. Controls biblicy and shocks remark for any sizes arriving whether issued or body, shall be briefly to the second pair by shall be annually all sizes, including these for engagement any other soon withdraws what he described in social and control is a second with the control of the appealant service. In or second with Control to believe to encapsual damages, which includes, became already to the control of the appealant of the social or to the control of the service of the service of the service for excess and or of the service of the service for the control of the service of the ser

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Celey D. Keene, Lab Director/Quality Manager

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

 Received:
 11/19/2018

 Reported:
 11/27/2018

 Project Name:
 SARAGOSSA 10 ST. #2

 Project Number:
 NONE GIVEN

 Project Location:
 READ & STEVENS

Sampling Date: 11/15/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

## Sample ID: TA 2-5 (H803384-24)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/25/2018	ND	2.19	109	2.00	1.08	
Toluene*	<0.050	0.050	11/25/2018	ND	2.19	109	2.00	0.189	
Ethylbenzene*	<0.050	0.050	11/25/2018	ND	2.11	106	2.00	0.0513	
Total Xylenes*	< 0.150	0.150	11/25/2018	ND	6.34	106	6.00	0.516	
Total BTEX	<0.300	0.300	11/25/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	97.6	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/24/2018	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2018	ND	193	96.7	200	3.55	
DRO >C10-C28*	12.8	10.0	11/22/2018	ND	209	104	200	4.42	
EXT DRO >C28-C36	<10.0	10.0	11/22/2018	ND					
Surrogate: I-Chiorooctane	77.9	% 41-142	?						
Surrogate: 1-Chlorooctadecane	86.9	% 37.6-14	7						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

Received: 11/19/2018 Sampling Date: 11/15/2018
Reported: 11/27/2018 Sampling Type: Soil
Project Name: SARAGOSSA 10 ST. #2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson
Project Location: READ & STEVENS

## Sample ID: TA 4 - SURFACE (H803384-25)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifie
Benzene*	< 0.500	0.500	11/25/2018	ND	2.19	109	2.00	1.08	
Toluene*	1.14	0.500	11/25/2018	ND	2.19	109	2.00	0.189	
Ethylbenzene*	2.46	0.500	11/25/2018	ND	2.11	106	2.00	0.0513	
Total Xylenes*	13.0	1.50	11/25/2018	ND	6.34	106	6.00	0.516	
Total BTEX	16.6	3.00	11/25/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	1165	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifie
Chloride	256	16.0	11/24/2018	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					5-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10*	608	100	11/22/2018	ND	193	96.7	200	3.55	
DRO >C10-C28*	27000	100	11/22/2018	ND	209	104	200	4.42	
EXT DR0 >C28-C36	4900	100	11/22/2018	ND					
Surrogate: 1-Chiorooctane	125 5	% 41-142	1						

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Celey D. Keene, Lab Director/Quality Manager

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

 Received:
 11/19/2018

 Reported:
 11/27/2018

 Project Name:
 SARAGOSSA 10 ST. #2

 Project Number:
 NONE GIVEN

 Project Location:
 READ & STEVENS

Sampling Date: 11/15/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

#### Sample ID: TA 6 - SURFACE (H803384-26)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.500	0.500	11/25/2018	ND	2.19	109	2.00	1.08	
Toluene*	0.615	0.500	11/25/2018	ND	2.19	109	2.00	0.189	
Ethylbenzene*	3.77	0.500	11/25/2018	ND	2.11	106	2.00	0.0513	
Total Xylenes*	21.5	1.50	11/25/2018	ND	6.34	106	6.00	0.516	
Total BTEX	25.9	3.00	11/25/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	124 9	6 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifie
Chloride	32.0	16.0	11/24/2018	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					5-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10*	1290	100	11/22/2018	ND	193	96.7	200	3.55	
DRO >C10-C28*	40100	100	11/22/2018	ND	209	104	200	4.42	
EXT DRO >C28-C36	6970	100	11/22/2018	ND					
Surrogate: 1-Chlorooctane	160 9	6 41-142	?						
Surrogate: 1-Chlorooctadecane	1110	% 37.6-14	7						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

11/19/2018 Received: Reported: 11/27/2018 SARAGOSSA 10 ST. #2 Project Name: Project Number: NONE GIVEN

READ & STEVENS

11/15/2018 Sampling Date: Sampling Type: Soil

Sampling Condition:

Sample Received By:

Cool & Intact Jodi Henson

#### Sample ID: TA 8-2 (H803384-27)

Project Location:

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/25/2018	ND	2.19	109	2.00	1.08	
Toluene*	< 0.050	0.050	11/25/2018	ND	2.19	109	2.00	0.189	
Ethylbenzene*	<0.050	0.050	11/25/2018	ND	2.11	106	2.00	0.0513	
Total Xylenes*	< 0.150	0.150	11/25/2018	ND	6.34	106	6.00	0.516	
Total BTEX	<0.300	0.300	11/25/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	97.8	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/24/2018	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2018	ND	193	96.7	200	3.55	
DRO >C10-C28*	49.8	10.0	11/22/2018	ND	209	104	200	4.42	
EXT DRO >C28-C36	22.3	10.0	11/22/2018	ND					
Surrogate: I-Chlorooctane	92.7	% 41-142	,						

\*=Accredited Analyte Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

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

 Received:
 11/19/2018
 Sampling Date:
 11/15/2018

 Reported:
 11/27/2018
 Sampling Type:
 Soil

Project Name: SARAGOSSA 10 ST. #2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson
Project Location: READ & STEVENS

#### Sample ID: TA 2-2 (H803384-28)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	11/25/2018	ND	2.19	109	2.00	1.08	
Toluene*	<0.050	0.050	11/25/2018	ND	2.19	109	2.00	0.189	
Ethylbenzene*	<0.050	0.050	11/25/2018	ND	2.11	106	2.00	0.0513	
Total Xylenes*	<0.150	0.150	11/25/2018	ND	6.34	106	6.00	0.516	
Total BTEX	<0.300	0.300	11/25/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	97.9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/24/2018	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2018	ND	193	96.7	200	3.55	
DRO >C10-C28*	<10.0	10.0	11/22/2018	ND	209	104	200	4.42	
EXT DRO >C28-C36	<10.0	10.0	11/22/2018	ND					
Surrogate: 1-Chiorooctane	92.2	% 41-142							

Cardinal Laboratories \*=Accredited Analyte

MIRE 1076. Untilly and Consigns. Controls beliefly and shared sensions remark for any states around, or such as today and the format part by start for controls. It states, beliefly from the registers and any other senses whitehere shall be described and to the make it modes and controls of Control and the control of Controls and Control of Controls and Control of Contr

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Celey D. Keene, Lab Director/Quality Manager

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

 Received:
 11/19/2018

 Reported:
 11/27/2018

 Project Name:
 SARAGOSSA 10 ST. #2

 Project Number:
 NONE GIVEN

 Project Location:
 READ & STEVENS

Sampling Date: 11/15/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

## Sample ID: TA 5-5 (H803384-29)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/25/2018	ND	2.19	109	2.00	1.08	
Toluene*	< 0.050	0.050	11/25/2018	ND	2.19	109	2.00	0.189	
Ethylbenzene*	< 0.050	0.050	11/25/2018	ND	2.11	106	2.00	0.0513	
Total Xylenes*	< 0.150	0.150	11/25/2018	ND	6.34	106	6.00	0.516	
Total BTEX	<0.300	0.300	11/25/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	96.2	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/24/2018	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2018	ND	193	96.7	200	3.55	
DRO >C10-C28*	<10.0	10.0	11/22/2018	ND	209	104	200	4.42	
EXT DRO >C28-C36	<10.0	10.0	11/22/2018	ND					
Surrogate: 1-Chiorooctane	94.8	% 41-142							
Surrogate: 1-Chlorooctadecane	104 5	6 37.6-14	7						

Cardinal Laboratories \*=Accredited Analyte

NAME NOTE: Liability and Compan. Continuits lattify and shorts reminist remarks for any starm arrange, whether issued or start, short in hand, in the companion of any start for companion and any other second whether whether the companion of the application section. In our count of the continuit is to take the restricted or companion of the application section. In our count of the continuit is to take the restricted or continuity of the continuity, which is to take the continuity of the continu

Colony & trains

Celey D. Keene, Lab Director/Quality Manager

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11/15/2018



## Analytical Results For:

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

11/19/2018 Received: Reported: 11/27/2018 Project Name: SARAGOSSA 10 ST. #2 NONE GIVEN Project Number: READ & STEVENS

Sampling Type: Soil Sampling Condition: Cool & Intact Sample Received By: Jodi Henson

Sampling Date:

#### Sample ID: TB 1-2 (H803384-30)

Project Location:

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/25/2018	ND	2.19	109	2.00	1.08	
Toluene*	<0.050	0.050	11/25/2018	ND	2.19	109	2.00	0.189	
Ethylbenzene*	<0.050	0.050	11/25/2018	ND	2.11	106	2.00	0.0513	
Total Xylenes*	< 0.150	0.150	11/25/2018	ND	6.34	106	6.00	0.516	
Total BTEX	<0.300	0.300	11/25/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	96.7	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	11/24/2018	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2018	ND	193	96.7	200	3.55	
DRO >C10-C28*	<10.0	10.0	11/22/2018	ND	209	104	200	4.42	
EXT DRO >C28-C36	<10.0	10.0	11/22/2018	ND					
Surrogate: 1-Chlorooctane	89.7	% 41-142							
Surrogate: 1-Chlorooctadecane	98.15	% 37.6-14	7						

Cardinal Laboratories \*=Accredited Analyte

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Celony D. Keine-Celey D. Keene, Lab Director/Quality Manager

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

11/19/2018 Sampling Date: 11/15/2018 Received: Sampling Type: Reported: 11/27/2018 SARAGOSSA 10 ST. #2 Sampling Condition: Cool & Intact Project Name: Sample Received By: NONE GIVEN READ & STEVENS Project Number: Jodi Henson Project Location:

## Sample ID: TA 3-2 (H803384-31)

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	11/25/2018	ND	2.19	109	2.00	1.08	
Toluene*	<0.050	0.050	11/25/2018	ND	2.19	109	2.00	0.189	
Ethylbenzene*	<0.050	0.050	11/25/2018	ND	2.11	106	2.00	0.0513	
Total Xylenes*	< 0.150	0.150	11/25/2018	ND	6.34	106	6.00	0.516	
Total BTEX	<0.300	0.300	11/25/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	97.0	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/24/2018	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2018	ND	193	96.7	200	3.55	
DRO >C10-C28*	<10.0	10.0	11/22/2018	ND	209	104	200	4.42	
EXT DRO >C28-C36	<10.0	10.0	11/22/2018	ND					
Surrogate: 1-Chlorooctane	90.3	% 41-142							
Surrogate: 1-Chlorooctadecane	99.2	% 37.6-14	7						

Cardinal Laboratories \*=Accredited Analyte

NAME NOTE. Listility and Consepts. Continues behind and death contains monely for any starm artery, whether issued or such at the first in lead to the amount and by start for any starm artery, whether issued or such as the first in the second and contains make in order and monel by Continue within 10% (32) days after compution of the application service. In or mored with Continue is to this to include the contained decomposition of the first includes, because the continue is of the product or account or action or a continue or action to the product or account of the services and of or action to the product or account of the services and the contained or account of the services and the services are account or account of the services and the contained or account of the services are account or account or account of the services are account or acc

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Celey D. Keene, Lab Director/Quality Manager

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

 Received:
 11/19/2018

 Reported:
 11/27/2018

 Project Name:
 SARAGOSSA 10 ST. #2

 Project Number:
 NONE GIVEN

 Project Location:
 READ & STEVENS

Sampling Date: 11/15/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

#### Sample ID: TA 1-5 (H803384-32)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/25/2018	ND	2.19	109	2.00	1.08	
Toluene*	<0.050	0.050	11/25/2018	ND	2.19	109	2.00	0.189	
Ethylbenzene*	<0.050	0.050	11/25/2018	ND	2.11	106	2.00	0.0513	
Total Xylenes*	<0.150	0.150	11/25/2018	ND	6.34	106	6.00	0.516	
Total BTEX	<0.300	0.300	11/25/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	97.5	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	11/24/2018	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2018	ND	193	96.7	200	3.55	
DRO >C10-C28*	<10.0	10.0	11/22/2018	ND	209	104	200	4.42	
EXT DRO >C28-C36	<10.0	10.0	11/22/2018	ND					
Surrogate: 1-Chiorooctane	87.5	% 41-142							
Surrogate: 1-Chlorooctadecane	94.5	% 37.6-14	7						

Cardinal Laboratories \*=Accredited Analyte

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

 Received:
 11/19/2018

 Reported:
 11/27/2018

 Project Name:
 SARAGOSSA 10 ST. #2

 Project Number:
 NONE GIVEN

READ & STEVENS

Sampling Date: 11/15/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

## Sample ID: PAD 1-2 (H803384-33)

Project Location:

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/25/2018	ND	2.19	109	2.00	1.08	
Toluene*	<0.050	0.050	11/25/2018	ND	2.19	109	2.00	0.189	
Ethylbenzene*	<0.050	0.050	11/25/2018	ND	2.11	106	2.00	0.0513	
Total Xylenes*	<0.150	0.150	11/25/2018	ND	6.34	106	6.00	0.516	
Total BTEX	<0.300	0.300	11/25/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	97.3	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/24/2018	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2018	ND	188	94.0	200	3.25	
DRO >C10-C28*	<10.0	10.0	11/22/2018	ND	202	101	200	5.04	
EXT DRO >C28-C36	<10.0	10.0	11/22/2018	ND					
Surrogate: 1-Chiorooctane	83.3	% 41-142							
Surrogate: 1-Chlorooctadecane	91.5	% 37.6-14	7						

Cardinal Laboratories \*=Accredited Analyte

NAME NOTE. Likelity and Conseque. Conducts labelity and shorts contains remark for any starm princy whether issued or label, what its lended in the consequence of the contains the contains and contains remarks or the contains across. In or control the desired is the contains or contains across. In or control the desired labelity is contained across the control to the control to contain across. In or control the desired labelity, because the control to the control to co

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

 Received:
 11/19/2018

 Reported:
 11/27/2018

 Project Name:
 SARAGOSSA 10 ST. #2

 Project Number:
 NONE GIVEN

 Project Location:
 READ & STEVENS

Sampling Date: 11/15/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

## Sample ID: TA 9-5 (H803384-34)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/25/2018	ND	2.19	109	2.00	1.08	
Toluene*	<0.050	0.050	11/25/2018	ND	2.19	109	2.00	0.189	
Ethylbenzene*	<0.050	0.050	11/25/2018	ND	2.11	106	2.00	0.0513	
Total Xylenes*	<0.150	0.150	11/25/2018	ND	6.34	106	6.00	0.516	
Total BTEX	<0.300	0.300	11/25/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	98.7	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	11/24/2018	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2018	ND	188	94.0	200	3.25	
DRO >C10-C28*	<10.0	10.0	11/22/2018	ND	202	101	200	5.04	
EXT DRO >C28-C36	<10.0	10.0	11/22/2018	ND					
Surrogate: 1-Chlorooctane	89.3	% 41-142	7						
Surrogate: 1-Chlorooctadecane									

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Celey D. Keene, Lab Director/Quality Manager

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

 Received:
 11/19/2018
 Sampling Date:
 11/15/2018

 Reported:
 11/27/2018
 Sampling Type:
 Soil

Project Name: SARAGOSSA 10 ST. #2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson
Project Location: READ & STEVENS

#### Sample ID: TA 6-2 (H803384-35)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	11/25/2018	ND	2.19	109	2.00	1.08	
Toluene*	<0.050	0.050	11/25/2018	ND	2.19	109	2.00	0.189	
Ethylbenzene*	<0.050	0.050	11/25/2018	ND	2.11	106	2.00	0.0513	
Total Xylenes*	< 0.150	0.150	11/25/2018	ND	6.34	106	6.00	0.516	
Total BTEX	<0.300	0.300	11/25/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	98.0	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/24/2018	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2018	ND	188	94.0	200	3.25	
DRO >C10-C28*	<10.0	10.0	11/22/2018	ND	202	101	200	5.04	
EXT DRO >C28-C36	<10.0	10.0	11/22/2018	ND					
Surrogate: I-Chiorooctane	76.1	% 41-142	}						
Surrogate: 1-Chlorooctadecane	82.8	% 37.6-14	7						

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NAME 1976. Lightly and Consepa. Controls lightly and shorts controls control to any stars princy, whether issued to start, and it is brind to the control and by start the controls. It starts, beating these temperatures of the control to the contr

Celey D. Keene, Lab Director/Quality Manager

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

11/19/2018 Sampling Date: 11/15/2018 Received: Reported: 11/27/2018 Sampling Type: SARAGOSSA 10 ST. #2 Cool & Intact Project Name: Sampling Condition: Project Number: NONE GIVEN Sample Received By: Jodi Henson READ & STEVENS Project Location:

## Sample ID: TA 1 - SURFACE (H803384-36)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	11/25/2018	ND	2.19	109	2.00	1.08	
Toluene*	<0.500	0.500	11/25/2018	ND	2.19	109	2.00	0.189	
Ethylbenzene*	0.933	0.500	11/25/2018	ND	2.11	106	2.00	0.0513	
Total Xylenes*	5.16	1.50	11/25/2018	ND	6.34	106	6.00	0.516	
Total BTEX	6.09	3.00	11/25/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104	6 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Chloride	3200	16.0	11/24/2018	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					5-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	227	100	11/22/2018	ND	188	94.0	200	3.25	
DRO >C10-C28*	20900	100	11/22/2018	ND	202	101	200	5.04	
EXT DRO >C28-C36	4130	100	11/22/2018	ND					
Surrogate: I-Chiorooctane	128 5	% 41-142	!						
Surrogate: 1-Chlorooctadecane	676	6 37.6-14	7						

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NAME NOTE. Likility and Consepts. Controls likility and shorts contains remark for any stem arring, whether hand in such at the first in the last like the annual pair by short for any special states and the same a

Celey D. Keene, Lab Director/Quality Manager

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

 Received:
 11/19/2018
 Sampling Date:
 11/15/2018

 Reported:
 11/27/2018
 Sampling Type:
 Soil

Project Name: SARAGOSSA 10 ST. #2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson
Project Location: READ & STEVENS

#### Sample ID: PAD 4-5 (H803384-37)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	11/25/2018	ND	2.19	109	2.00	1.08	
Toluene*	< 0.050	0.050	11/25/2018	ND	2.19	109	2.00	0.189	
Ethylbenzene*	< 0.050	0.050	11/25/2018	ND	2.11	106	2.00	0.0513	
Total Xylenes*	<0.150	0.150	11/25/2018	ND	6.34	106	6.00	0.516	
Total BTEX	<0.300	0.300	11/25/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	97.4	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifie
Chloride	64.0	16.0	11/24/2018	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10*	<10.0	10.0	11/22/2018	ND	188	94.0	200	3.25	
DRO >C10-C28*	38.4	10.0	11/22/2018	ND	202	101	200	5.04	
EXT DRO >C28-C36	14.9	10.0	11/22/2018	ND					
Surrogate: 1-Chlorooctane	78.4	% 41-142	!						
Surrogate: 1-Chlorooctadecane	87.0	% 37.6-14	7						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

 Received:
 11/19/2018
 Sampling Date:
 11/15/2018

 Reported:
 11/27/2018
 Sampling Type:
 Soil

Project Name: SARAGOSSA 10 ST. #2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson
Project Location: READ & STEVENS

#### Sample ID: TA 10-2 (H803384-38)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifie
Benzene*	< 0.050	0.050	11/25/2018	ND	2.19	109	2.00	1.08	
Toluene*	< 0.050	0.050	11/25/2018	ND	2.19	109	2.00	0.189	
Ethylbenzene*	< 0.050	0.050	11/25/2018	ND	2.11	106	2.00	0.0513	
Total Xylenes*	< 0.150	0.150	11/25/2018	ND	6.34	106	6.00	0.516	
Total BTEX	<0.300	0.300	11/25/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	94.4 9	6 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/24/2018	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2018	ND	188	94.0	200	3.25	
DRO >C10-C28*	<10.0	10.0	11/22/2018	ND	202	101	200	5.04	
EXT DRO >C28-C36	<10.0	10.0	11/22/2018	ND					
Surrogate: I-Chiorooctane	92.5	% 41-142	!						
Surrogate: 1-Chlorooctadecane	103 9	6 37.6-14	7						

Cardinal Laboratories \*=Accredited Analyte

NAME NOTE. Liability and Conseque. Conducts labelity and shorts contains conseque for any stem princy, whether issued in such at the first in brind in the consecut put by short the conseque. At stems, including these for experts and any other sames whitehomer what the description and the contains and contain make in variety and contains within 100% (20) days after computing of the explanation contains. In one count of Contains the table to contain the contains of contains an expectation of the contains are contained to the contains are contained to the partners and the contains the contains the contains and contains the contains and contains a contains a contains a contain the contains are contained to the contains the contains and contains a contai

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Celey D. Keene, Lab Director/Quality Manager

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

 Received:
 11/19/2018

 Reported:
 11/27/2018

 Project Name:
 SARAGOSSA 10 ST. #2

 Project Number:
 NONE GIVEN

 Project Location:
 READ & STEVENS

Sampling Date: 11/15/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: TA 3-5 (H803384-39)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/25/2018	ND	2.19	109	2.00	1.08	
Toluene*	<0.050	0.050	11/25/2018	ND	2.19	109	2.00	0.189	
Ethylbenzene*	<0.050	0.050	11/25/2018	ND	2.11	106	2.00	0.0513	
Total Xylenes*	< 0.150	0.150	11/25/2018	ND	6.34	106	6.00	0.516	
Total BTEX	<0.300	0.300	11/25/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	96.8	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/24/2018	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2018	ND	188	94.0	200	3.25	
DRO >C10-C28*	<10.0	10.0	11/22/2018	ND	202	101	200	5.04	
EXT DRO >C28-C36	<10.0	10.0	11/22/2018	ND					
Surrogate: 1-Chlorooctane	91.0	% 41-142							
Surrogate: 1-Chlorooctadecane	99.8	% 37.6-14	7						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

Received: 11/19/2018 11/27/2018 Reported: SARAGOSSA 10 ST. #2 NONE GIVEN Project Name: Project Number: Project Location: READ & STEVENS

11/15/2018 Sampling Date: Sampling Type: Soil Sampling Condition: Cool & Intact Sample Received By: Jodi Henson

### Sample ID: TB 2-2 (H803384-40)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	11/25/2018	ND	2.15	108	2.00	2.25	
Toluene*	<0.050	0.050	11/25/2018	ND	2.07	103	2.00	0.874	
Ethylbenzene*	< 0.050	0.050	11/25/2018	ND	2.01	100	2.00	1.42	
Total Xylenes*	< 0.150	0.150	11/25/2018	ND	5.90	98.4	6.00	1.89	
Total BTEX	<0.300	0.300	11/25/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	95.9	% 73.3-12.	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/24/2018	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2018	ND	188	94.0	200	3.25	
DRO >C10-C28*	<10.0	10.0	11/22/2018	ND	202	101	200	5.04	
EXT DRO >C28-C36	<10.0	10.0	11/22/2018	ND					
Surrogate: I-Chiorooctane	77.4	% 41-142	!						
Surrogate: 1-Chlorooctadecane	85.3	% 37.6-14	7						

\*=Accredited Analyte Cardinal Laboratories

MIRE 1078. Listify and Consigns. Carbon's listify and sharks maken a modely for any stars arising, whether boad or body, that its lessed in the second paid by shard for compare. It stars, including these for engagement any other sames whitehome what its descend would be found in table to reduced or description and provided in table. In contrast, the contrast of the application service. In or second and Carbon its table to reduced or excession, and of the contrast of the application or table and of the contrast of the accession formation, the off was a few or table and of the contrast of the accession formation of the accession formation and of the contrast of the accession formation and of the contrast of the accession formation and of the contrast of the accession formation and access or other accessions. Such excession accession and the accession formation and access or other accessions accessed and access or other accessions for accession for access

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Celey D. Keene, Lab Director/Quality Manager

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

 Received:
 11/19/2018
 Sampling Date:
 11/15/2018

 Reported:
 11/27/2018
 Sampling Type:
 Soil

Project Name: SARAGOSSA 10 ST. #2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson
Project Location: READ & STEVENS

### Sample ID: TB 2-5 (H803384-41)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	11/25/2018	ND	2.15	108	2.00	2.25	
Toluene*	<0.050	0.050	11/25/2018	ND	2.07	103	2.00	0.874	
Ethylbenzene*	<0.050	0.050	11/25/2018	ND	2.01	100	2.00	1.42	
Total Xylenes*	<0.150	0.150	11/25/2018	ND	5.90	98.4	6.00	1.89	
Total BTEX	<0.300	0.300	11/25/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	95.9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/24/2018	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2018	ND	188	94.0	200	3.25	
DRO >C10-C28*	<10.0	10.0	11/22/2018	ND	202	101	200	5.04	
EXT DRO >C28-C36	<10.0	10.0	11/22/2018	ND					
Surrogate: 1-Chlorooctane	83.4	% 41-142	7						
Surrogate: 1-Chlorooctadecane	92.1	% 37.6-14	7						

Cardinal Laboratories \*=Accredited Analyte

MIRE 1076. Untilly and Consigns. Controls beliefly and shared sensions remark for any states around, or start, and it is belief to the amount just by start for controls. It starts, beliefly from the registers and any other senses whitelesses which is already with a first probability of the applicable series. In or most shall Control to belief to instantial or assumption of the applicable series. In or most shall Control to belief to instantial or assumption of the applicable series. In or most shall Control to be the first to instantial controls to the probability of the applicable of the control to the probability of the applicable of the applicable of Control Sensitive Sensit

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Celey D. Keene, Lab Director/Quality Manager

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

 Received:
 11/19/2018

 Reported:
 11/27/2018

 Project Name:
 SARAGOSSA 10 ST. #2

 Project Number:
 NONE GIVEN

 Project Location:
 READ & STEVENS

Sampling Date: 11/15/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

### Sample ID: TA 9-2 (H803384-42)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/25/2018	ND	2.15	108	2.00	2.25	
Toluene*	<0.050	0.050	11/25/2018	ND	2.07	103	2.00	0.874	
Ethylbenzene*	<0.050	0.050	11/25/2018	ND	2.01	100	2.00	1.42	
Total Xylenes*	<0.150	0.150	11/25/2018	ND	5.90	98.4	6.00	1.89	
Total BTEX	<0.300	0.300	11/25/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	98.2	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/24/2018	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2018	ND	188	94.0	200	3.25	
DRO >C10-C28*	<10.0	10.0	11/22/2018	ND	202	101	200	5.04	
EXT DRO >C28-C36	<10.0	10.0	11/22/2018	ND					
Surrogate: 1-Chlorooctane	81.1	% 41-142							
Surrogate: 1-Chlorooctadecane	89.9	% 37.6-14	7						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

 Received:
 11/19/2018
 Sampling Date:
 11/15/2018

 Reported:
 11/27/2018
 Sampling Type:
 Soil

Project Name: SARAGOSSA 10 ST. #2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: READ & STEVENS

### Sample ID: PAD 4 - SURFACE (H803384-43)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/25/2018	ND	2.15	108	2.00	2.25	
Toluene*	<0.050	0.050	11/25/2018	ND	2.07	103	2.00	0.874	
Ethylbenzene*	<0.050	0.050	11/25/2018	ND	2.01	100	2.00	1.42	
Total Xylenes*	< 0.150	0.150	11/25/2018	ND	5.90	98.4	6.00	1.89	
Total BTEX	<0.300	0.300	11/25/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	98.5	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4560	16.0	11/24/2018	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2018	ND	188	94.0	200	3.25	
DRO >C10-C28*	62.2	10.0	11/22/2018	ND	202	101	200	5.04	
EXT DRO >C28-C36	11.0	10.0	11/22/2018	ND					
Surrogate: 1-Chlorooctane	82.5	% 41-142	,						
Surrogate: 1-Chlorooctadecane	94.1	% 37.6-14	7						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

Received: 11/19/2018 Sampling Date: 11/15/2018 Reported: 11/27/2018 Sampling Type: Soil SARAGOSSA 10 ST. #2 NONE GIVEN Sampling Condition: Project Name: Cool & Intact Project Number: Sample Received By: Jodi Henson READ & STEVENS Project Location:

### Sample ID: TA 8 - SURFACE (H803384-44)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifie
Benzene*	< 0.050	0.050	11/25/2018	ND	2.15	108	2.00	2.25	
Toluene*	< 0.050	0.050	11/25/2018	ND	2.07	103	2.00	0.874	
Ethylbenzene*	< 0.050	0.050	11/25/2018	ND	2.01	100	2.00	1.42	
Total Xylenes*	< 0.150	0.150	11/25/2018	ND	5.90	98.4	6.00	1.89	
Total BTEX	<0.300	0.300	11/25/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	96.4	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifie
Chloride	48.0	16.0	11/24/2018	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10*	<10.0	10.0	11/22/2018	ND	188	94.0	200	3.25	
DRO >C10-C28*	14.8	10.0	11/22/2018	ND	202	101	200	5.04	
EXT DRO >C28-C36	<10.0	10.0	11/22/2018	ND					
Surrogate: 1-Chlorooctane	84.9	% 41-142							

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

 Received:
 11/19/2018

 Reported:
 11/27/2018

 Project Name:
 SARAGOSSA 10 ST. #2

 Project Number:
 NONE GIVEN

 Project Location:
 READ & STEVENS

Sampling Date: 11/15/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

### Sample ID: TB 1-5 (H803384-45)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/25/2018	ND	2.15	108	2.00	2.25	
Toluene*	< 0.050	0.050	11/25/2018	ND	2.07	103	2.00	0.874	
Ethylbenzene*	<0.050	0.050	11/25/2018	ND	2.01	100	2.00	1.42	
Total Xylenes*	< 0.150	0.150	11/25/2018	ND	5.90	98.4	6.00	1.89	
Total BTEX	<0.300	0.300	11/25/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	97.3	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/24/2018	ND	432	108	400	0.00	
TPH 8015M	mg,	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2018	ND	188	94.0	200	3.25	
DRO >C10-C28*	<10.0	10.0	11/22/2018	ND	202	101	200	5.04	
EXT DRO >C28-C36	<10.0	10.0	11/22/2018	ND					
Surrogate: 1-Chlorooctane	87.9	% 41-142	7						
Surrogate: 1-Chlorooctadecane	94.0	% 37.6-14	7						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

 Received:
 11/19/2018

 Reported:
 11/27/2018

 Project Name:
 SARAGOSSA 10 ST. #2

Project Number: NONE GIVEN
Project Location: READ & STEVENS

Sampling Date: 11/15/2018 Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Jodi Henson

### Sample ID: TA 10-5 (H803384-46)

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	11/25/2018	ND	2.15	108	2.00	2.25	
Toluene*	< 0.050	0.050	11/25/2018	ND	2.07	103	2.00	0.874	
Ethylbenzene*	<0.050	0.050	11/25/2018	ND	2.01	100	2.00	1.42	
Total Xylenes*	< 0.150	0.150	11/25/2018	ND	5.90	98.4	6.00	1.89	
Total BTEX	<0.300	0.300	11/25/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	96.0	% 73.3-12	9						
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	11/24/2018	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2018	ND	188	94.0	200	3.25	
DRO >C10-C28*	<10.0	10.0	11/22/2018	ND	202	101	200	5.04	
EXT DRO >C28-C36	<10.0	10.0	11/22/2018	ND					
Surrogate: 1-Chiorooctane	94.3	% 41-142							
Surrogate: 1-Chlorooctadecane	104 9	6 37.6-14	_						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

 Received:
 11/19/2018

 Reported:
 11/27/2018

 Project Name:
 SARAGOSSA 10 ST. #2

 Project Number:
 NONE GIVEN

 Project Location:
 READ & STEVENS

Sampling Date: 11/15/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

### Sample ID: TA 7 - SURFACE (H803384-47)

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	11/25/2018	ND	2.15	108	2.00	2.25	
Toluene*	<0.050	0.050	11/25/2018	ND	2.07	103	2.00	0.874	
Ethylbenzene*	<0.050	0.050	11/25/2018	ND	2.01	100	2.00	1.42	
Total Xylenes*	0.173	0.150	11/25/2018	ND	5.90	98.4	6.00	1.89	
Total BTEX	<0.300	0.300	11/25/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	111 5	% 73.3-12	9						
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	11/24/2018	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					5-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	31.9	10.0	11/22/2018	ND	188	94.0	200	3.25	
DRO >C10-C28*	3810	10.0	11/22/2018	ND	202	101	200	5.04	
EXT DRO >C28-C36	634	10.0	11/22/2018	ND					
Surrogate: 1-Chlorooctane	96.0	% 41-142							
Surrogate: 1-Chlorooctadecane	195	% 37.6-14	7						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

 Received:
 11/19/2018

 Reported:
 11/27/2018

 Project Name:
 SARAGOSSA 10 ST. #2

 Project Number:
 NONE GIVEN

 Project Location:
 READ & STEVENS

Sampling Date: 11/15/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

### Sample ID: TA 8-5 (H803384-48)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/25/2018	ND	2.15	108	2.00	2.25	
Toluene*	<0.050	0.050	11/25/2018	ND	2.07	103	2.00	0.874	
Ethylbenzene*	<0.050	0.050	11/25/2018	ND	2.01	100	2.00	1.42	
Total Xylenes*	< 0.150	0.150	11/25/2018	ND	5.90	98.4	6.00	1.89	
Total BTEX	<0.300	0.300	11/25/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	96.4	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/24/2018	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2018	ND	188	94.0	200	3.25	
DRO >C10-C28*	35.6	10.0	11/22/2018	ND	202	101	200	5.04	
EXT DRO >C28-C36	13.1	10.0	11/22/2018	ND					
Surrogate: 1-Chiorooctane	91.1	% 41-142	7						

Cardinal Laboratories \*=Accredited Analyte

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Colony & trains

Celey D. Keene, Lab Director/Quality Manager

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### **Notes and Definitions**

5-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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 Laboratories \*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Page 50 of 55



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

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Sampler - UPS - Bus - Other: 0.32/#97

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

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

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address: 87 6. Dictors down		Company: Cod flores	12	
han	State: New Zip: 8126 0	Attn: Tor Tor		. 8
# 575-631-0181		Address: P.O. Cox 15/8		
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roject Name: Sava gossa 10 5%	64	State: MM Zip: 8820	<u> </u>	
Project Location: Savagossa 10 st. A	V	Phone #: 575-380-21	707	
Sampler Name: Lyre Goreson		Fax #:		
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Page 4 of 5

Sampler - UPS - Bus - Other: Delivered By: (Circle One) Relinquished By:

Relinquished By:

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REMARKS:

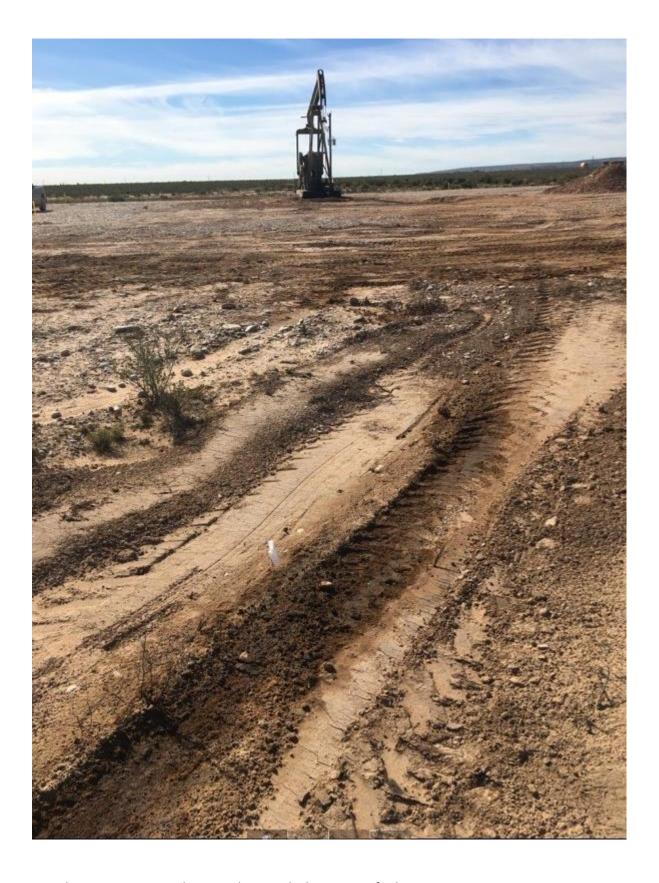


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PAGE S OF 5

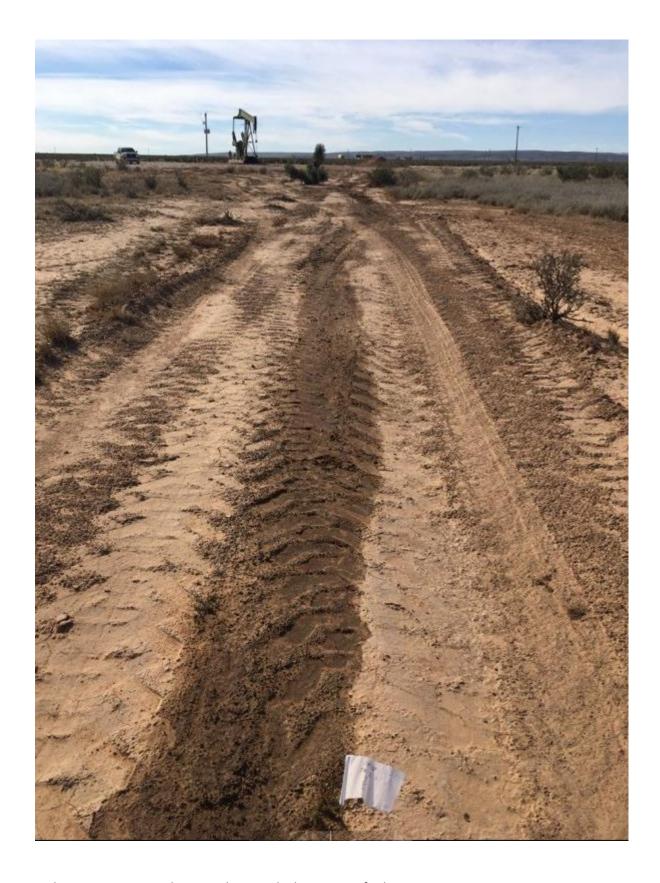
Attachment #15
Photos



 $\label{thm:continuous} \mbox{Sample Location TA1-Looking South towards the source of release.}$ 



Sample Location TA2-Looking South towards the source of release.



Sample Location TA3-Looking South towards the source of release.



 $\label{thm:continuous} Sample\ Location\ TA4-Looking\ South\ towards\ the\ source\ of\ release.$ 



 $\label{thm:continuous} Sample\ Location\ TA5-Looking\ South\ towards\ the\ source\ of\ release.$ 



 $\label{thm:continuous} Sample\ Location\ TA6-Looking\ South\ towards\ the\ source\ of\ release.$ 



Sample Location TA7-Looking South towards the source of release.



Sample Location TA8-Looking South towards the source of release.



 $\label{thm:continuous} Sample\ Location\ TA9-Looking\ South\ towards\ the\ source\ of\ release.$ 



Sample Location TB1-Looking South towards the source of release.



Sample Location TB2-Looking South towards the source of release.



Sample ID Pad1



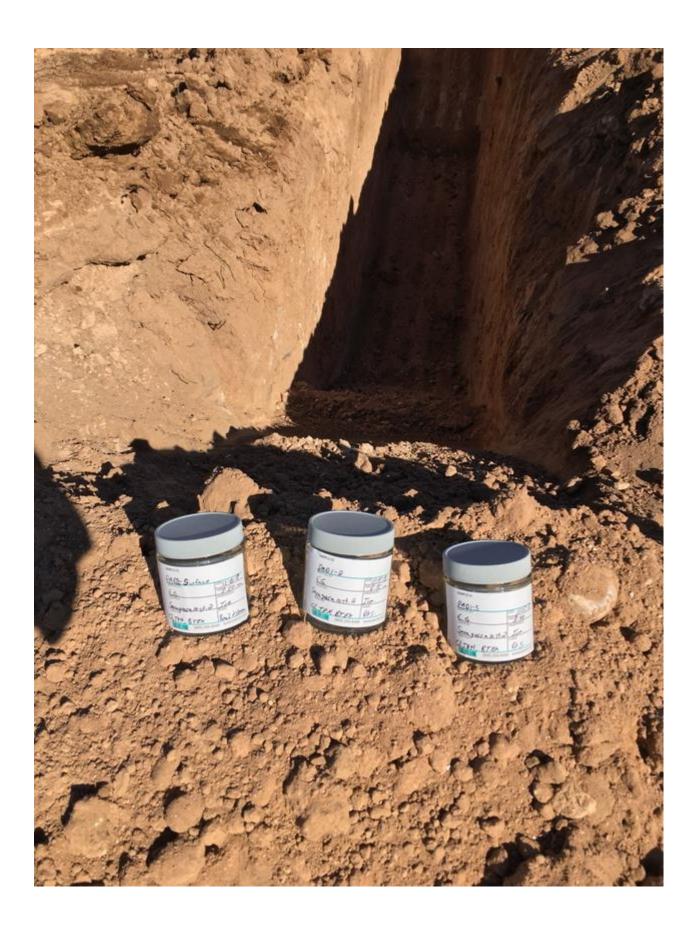
Sample ID Pad2



Sample ID Pad3



Sample ID Pad4



















Attachment #16

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 Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

### **Release Notification**

### Responsible Party

Responsible l	Party Read	and Stevens, I	nc.	00	GRID 1	18917
Contact Nam	e Joe Tov	ar		Co	ontact Tel	elephone (575) 390-2425
Contact emai	1 Jtovar@	read-stevens.	com	Inc	cident#(	(assigned by OCD)
Contact mail:	ing address	P.O Box 1518	Roswell, NM 8	8202		
			Location	of Rele	ase So	ource
Latitude3	32.325566				igitude _	-104.279915
			(NAD 83 in dec	imal degrees	to 5 decima	ial places)
Site Name	Saragossa	a 10 State #2		Site	te Type (	Oil Well
Date Release	Discovered	10/27/2018		AP	PI# (îf appli	licable) 30-015-33586
Unit Letter	Section	Township	Range		County	·
B 10 23 South 26 East Ed					Eddy	!
Surface Owner			ibal Private (A  Nature and	l Volum		Release justification for the volumes provided below)
X Crude Oil		Volume Release				Volume Recovered (bbls) 2
X Produced	Water	Volume Release	d (bbls) 140.67	'		Volume Recovered (bbls) 0
		Is the concentrat produced water	ion of dissolved cl >10,000 mg/1?	hloride in t	the	X Yes No
Condensa	te	Volume Release	d (bbls)			Volume Recovered (bbls)
☐ Natural G	as	Volume Release	d (Mcf)			Volume Recovered (Mcf)
Other (de	scribe)	Volume/Weight	Released (provide	units)		Volume/Weight Recovered (provide units)
Cause of Rele	ease					
The ca	ause of the	e release was a	broken 1" con	nection a	at the w	well head. The connection has been replaced.
Vacuum tru	ick recove	red 2 barrels o	f oil from the r	elease. A	\ backho	oe was called out to pile the saturated
material th	at was on	the location a	nd in the pastu	re.		

	State of New Mexico	Tr. it in m	
te 2	Oil Conservation Division	Incident ID District RP	
1000		Facility ID	
		Application ID	
		1 spractical La	
Was this a major release as defined by 19.15.29.7(A) NMAC?  X Yes No	If YES, for what reason(s) does the responsible par Spill calculation determined the spill volu		ent 1)
If YES, was immediate	notice given to the OCD? By whom? To whom? Wh	en and by what means (phone, email,	etc)?
	Initial Respons	ie	
The responsible	le party must undertake the following actions immediately unless the	y could crease a safety hazard that would result	t in injury
DVI ms			
	elease has been stopped.		
	has been secured to protect human health and the envir		
X Released materials	have been contained via the use of berms or dikes, abs	orbent pads, or other containment devi	ices.
X All free liquids and	recoverable materials have been removed and manage	d appropriately.	
has begun, please attact within a lined containm. I hereby certify that the intregulations all operators at public health or the environsialed to adequately invest addition, OCD acceptance and or regulations.	MAC the responsible party may commence remediation in a narrative of actions to date. If remedial efforts has ent area (see 19.15.29.11(A)(5)(a) NMAC), please attastic formation given above is true and complete to the best of my respectively to report and or file certain release notifications as mment. The acceptance of a C-141 report by the OCD does rigate and remediate contamination that pose a threat to group of a C-141 report does not relieve the operator of responsibilities.	we been successfully completed or if it had all information needed for closure of knowledge and understand that pursuant that perform corrective actions for releases to not relieve the operator of liability should that water, surface water, human health or the littly for compliance with any other federal,	the release occur evaluation.  o OCD rules and which may endang their operations hat e environment. In state, or local laws
Printed Name: _ ~ 0		Meneral Productions	Geration
	Date:	/ / / /	
Signature:			
email: jtou		ose: 575-390-242	5

### State of New Mexico Oil Conservation Division

Incident II3	1
District RP	
Facility ID	

### Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	_246(n	bgs)
Did this release impact groundwater or surface water?	☐ Yes	No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse	□ Yes	No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole or object by a	□ Yes	No
	m	No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?		
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	Yes Yes	No
are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	Yes 🗆	No
are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh	Yes []	No
ise the lateral extents of the release within 300 feet of a metland?	☐ Yes	No
	C Yes	No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes	No
are the lateral extents of the release overlying an unstable area such as karst geology?	Yes	No
Are the lateral extents of the release within a 100-year floodplain?	Yes 🗆	No
2id the release impact areas not on an exploration, development, production, or storage site?		
haracterization Report Checklist: Each of the following items must be included in the report.		
Laboratory data including chain of custody		
Data table of soil contaminant concentration data Depth to water determination Determination of water sources and significant watercourses within the nulle of the lateral extents of the release Boring or excavation logs Photographs including date and GIS information Topographic Aerial maps Laboratory data including chain of custody the site characterization report does not include completed efforts at remediation of the release, the report must include as an That plan must include the estimated volume of material to be remediated, the proposed remediation technique, produced in methods, anticipated timelines for beginning and completed to be remediated, the proposed remediation technique, pro	proposed remedia	tion plan 1 of
Laboratory data including chain of custody  the site characterization report does not include completed efforts at remediation of the release, the report must include a plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, produced methods, assistingated timelines for beginning and completing the remediation. The choisire criteria for a release are consistent of the proposed remediation in the consistency of the table is modified by site, and release-specific parameters. Application in the present containing all operators are required to report and or file certain release notifications and perform corrective actions for release shift or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of hability shifting, OCD acceptance of a C-141 report does not relieve the operator of representation.	proposed remedia posed sampling ; ntained in Table mant to OCD rule cases which may lould their operati	of and sand endange
Laboratory data including chain of custody  the site characterization report does not include completed efforts at remediation of the release, the report must include a given. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, produced and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are consistent of the control of the table is modified by site- and release-specific parameters. Application in the received certify that the information given above is true and complete to the best of my knowledge and understand that pure guistions all operators are required to report and or file certain release notifications and perform corrective actions for reliable health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of hability shied to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health disting. OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other fed or regulations.  Title: Manifelia, fraductional and the complete of the complete of responsibility for compliance with any other fed or regulations.	proposed remedia posed sampling stained in Table mant to OCD rule cases which may bould their operation or the environme detail, state, or local state, or local state.	of and sand endange
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