Basin Environmental Service Technologies, LLC

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REMEDIATION SUMMARY & SITE CLOSURE REQUEST

Grand Banks Energy
ARU #14
Lea County, New Mexico
Unit Letter "I", Section 2, Township 16 South, Range 32 East
Latitude 32.943974° North, Longitude -103.734328° West
NMOCD Reference #: 1RP-3985

Prepared For:

Grand Banks Energy 10 Desta Drive Midland, Texas 79705

Prepared By:
Basin Environmental Service Technologies, LLC
3100 Plains Highway
Lovington, New Mexico 88260

May 2016

APPROVED

By Olivia Yu at 2:43 pm, Jun 28, 2017

NMOCD grants closure to 1RP-3985.

Robbie Runnels Project Manager

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1.0 INTRODUCTION & BACKGROUND INFORMATION

Basin Environmental Service Technologies, LLC (Basin Environmental), on behalf of Grand Banks Energy (Grand Banks) has prepared this *Remediation Summary & Site Closure Request* for the release site known as the ARU #14. The legal description of the release site is Unit Letter "I", Section 2, Township 16 South, Range 32 East, in Lea County, New Mexico. The geographic coordinates of the release site are 32.943974° North latitude and -103.734328° West longitude. The property affected by the release is owned by the state of New Mexico. Please reference Figure 1 for a "Site Location Map".

On October 30, 2015, Grand Banks discovered a release had occurred at the ARU #14. A welded joint on a poly flow line parted causing a release of crude oil in the pasture. The release was later reported to the New Mexico Oil Conservation Division (NMOCD) Hobbs District Office on November 19, 2015. The "Release Notification and Corrective Action" (Form C-141) indicated approximately seventy-five (75) barrels (bbls) of crude oil were released. During initial response activities, the system was shut down and emergency crews were call to the release site where saturated soils were excavated and stockpiled. The entirety of the release (approximately 75 bbls) was in the pasture, impacting approximately forty-two thousand nine-hundred ninety-eight (42,998) square feet (ft²).

The Form C-141 is provided as Appendix A. General photographs of the release site are provided in Appendix B.

2.0 NMOCD SITE CLASSIFICATION

A search of the New Mexico Water Rights Reporting System (NMWRRS) database maintained by the New Mexico Office of the State Engineer (NMOSE) indicated information for the southeast quarter of Section 2, Township 16 South, Range 32 East, had three (3) wells placed and average depth to water being two-hundred seventy-two (272) feet below ground surface (bgs). Based on the NMOCD ranking system, zero (0) points were assigned to the site as a result of this criterion.

A search of the NMWRRS database indicated there are no water wells within one thousand (1,000') feet of the release. Based on the NMOCD ranking system, zero (0) points were assigned to the site as a result of this criterion.

There are no surface water bodies within one thousand feet (1,000') of the release. Based on the NMOCD ranking system, zero (0) points were assigned to the site as a result of this criterion.

NMOCD guidelines indicate the ARU #14 release site has an initial ranking score of zero (0) points. The soil remediation levels for a site with a ranking score of zero (0) points are as follows:

- Benzene 10 mg/kg (ppm)
- Benzene, ethylbenzene, toluene, and xylenes (BTEX) 50 mg/kg (ppm)
- Total petroleum hydrocarbons (TPH) 5,000 mg/kg (ppm)

The New Mexico Administrative Code (NMAC) does not currently specify a remediation level for chloride concentrations in soil. Chloride remediation levels are set by the NMOCD on a site-specific basis.

3.0 SUMMARY OF SOIL REMEDIATION ACTIVITIES

Basin personnel were on site beginning January 8, 2016 to begin delineation and remediation activities. Initial samples taken with depth were retrieved and submitted to a certified NMOCD approved commercial laboratory for initial analysis of chloride concentration utilizing method SM4500Cl-B. Gasoline range organics (GRO) and diesel range organics (DRO) were analyzed utilizing method TPH 8015M. Benzene, toluene, ethylbenzene and xylenes (BTEX) were analyzed utilizing method BTEX 8021B. A "Site & Sample Location Map" is provided as Figure 2. Laboratory analytical reports are provided as Appendix D.

On January 29, 2016, excavation of impacted soil commenced at the site. A chloride test kit was used to field-screen the horizontal extent and depth of impacted soil and to guide the excavation process. A photo-ionization detector (PID) was also used for determining the presence of hydrocarbons and the boundaries of the impacted soil. The impacted soil was excavated and transported to Gandy Marley Inc. Landfarm (Permit # NM-711-1-0019), for disposal.

The impacted area was excavated down to approximately two (2) feet bgs. The release site was broken down into five (5) distinct areas. Each individual area had numerous soil sample points placed at approximately fifty (50) foot intervals. In Area 5, two (2) floor samples points (Area 5 #2, Area 5 #3) were excavated deeper (4' and 6' bgs respectively) in order to extract the contaminated soils. Wall samples were taken at half of the total depth of excavation to ensure the removal of all impacted soils above the recommended remediation action levels (RRAL). Soil samples were sent to an approved NMOCD laboratory for concentration analysis of chlorides and total petroleum hydrocarbons (TPH).

Discrete wall soil samples were retrieved at half the depth of excavation for all Area sample points and submitted to an approved NMOCD laboratory for concentration analysis of chlorides, BTEX and TPH. Laboratory analysis confirms that the boundaries of the release were encompassed within the excavated area. Laboratory analysis also shows the impacted areas of the release met the criteria necessary for closure of the release.

The excavated area encompassed forty-six thousand seven-hundred ninety-eight (46,798) ft² and was backfilled utilizing clean, non-impacted soils and contoured to fit the surrounding topography. The release site was blended with straw for soil retention and seeded with a native blend of vegetation free from invasive and noxious species.

Table 1 summarizes the "Concentrations of BTEX, TPH & Chloride in Soil".

4.0 QA/QC PROCEDURES

4.1 Soil Sampling

Soil samples were delivered to Cardinal Laboratories in Hobbs, New Mexico, for TPH, and/or chloride analysis using the methods described below:

- TPH concentrations in accordance with EPA Method SW-846 8015M
- Chloride concentrations in accordance with EPA Methods 4500 Cl-B

4.2 Decontamination of Equipment

Cleaning of the sampling equipment was the responsibility of the environmental technician. Prior to use, and between each sample, the sampling equipment was cleaned with Liqui-Nox® detergent and rinsed with distilled water.

4.3 Laboratory Protocol

The laboratory was responsible for proper QA/QC procedures after signing the chain-of-custody form(s). These procedures were either transmitted with the laboratory reports or are on file at the laboratory.

5.0 SITE CLOSURE REQUEST

Soil samples collected from the sidewalls of the ARU #14 excavation were analyzed by an NMOCD-approved laboratory, and concentrations of benzene, BTEX, and TPH were below the regulatory remediation action levels established for the site by the NMOCD.

Basin Environmental recommends Grand Banks provide the NMOCD Hobbs District Office a copy of this *Remediation Summary & Site Closure Request* and request the NMOCD grant site closure to the ARU #14 release site.

6.0 LIMITATIONS

Basin Environmental Service Technologies, LLC, has prepared this *Remediation Summary & Site Closure Request* to the best of its ability. No other warranty, expressed or implied, is made or intended. Basin Environmental has examined and relied upon documents referenced in the report and on oral statements made by certain individuals. Basin Environmental has not conducted an independent examination of the facts contained in referenced materials and statements. Basin Environmental has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Basin Environmental has prepared this report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Basin Environmental notes that the facts and conditions referenced in this report may change over time, and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of Grand Banks Energy. The information contained in this report, including all exhibits and attachments, may not be used by any other party without the express consent of Basin Environmental Service Technologies, LLC, and/or Grand Banks Energy.

7.0 DISTRIBUTION:

Copy 1: Jamie Keyes

New Mexico Energy, Minerals and Natural Resources Department

Oil Conservation Division (District 1)

1625 N. French Drive Hobbs, NM 88240

Copy 2: Wayne Price

Grand Banks Energy

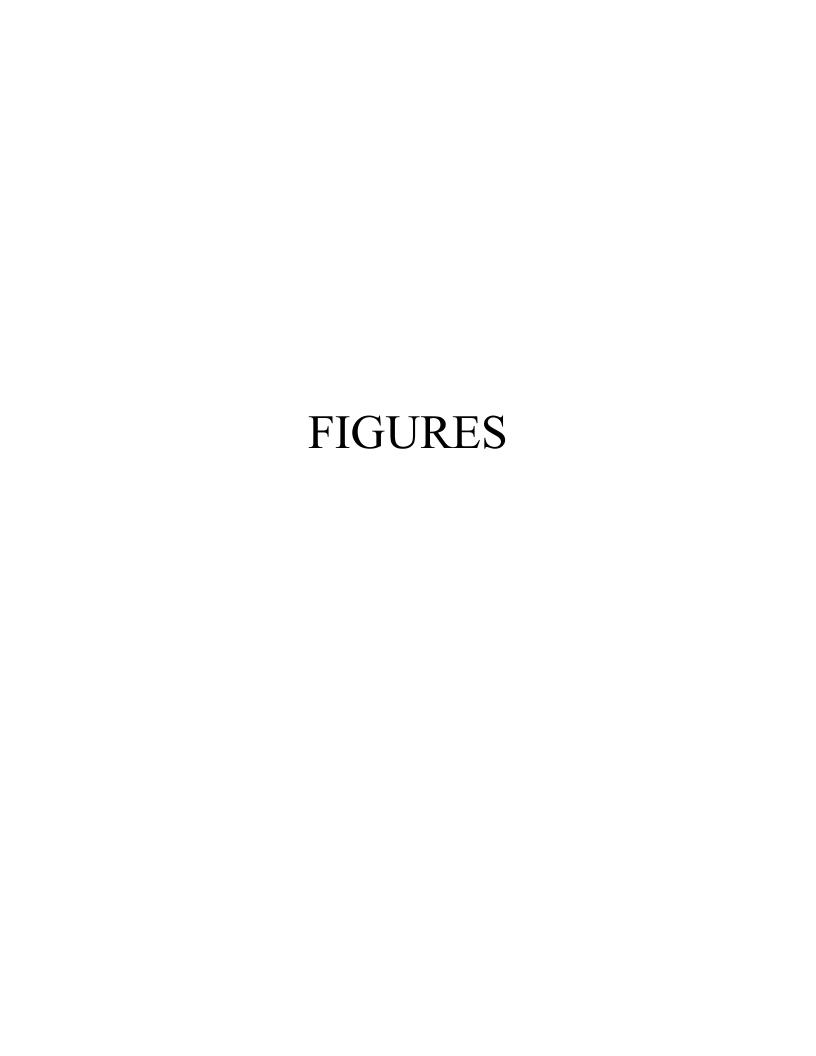
10 Desta Drive

Midland, TX 79705

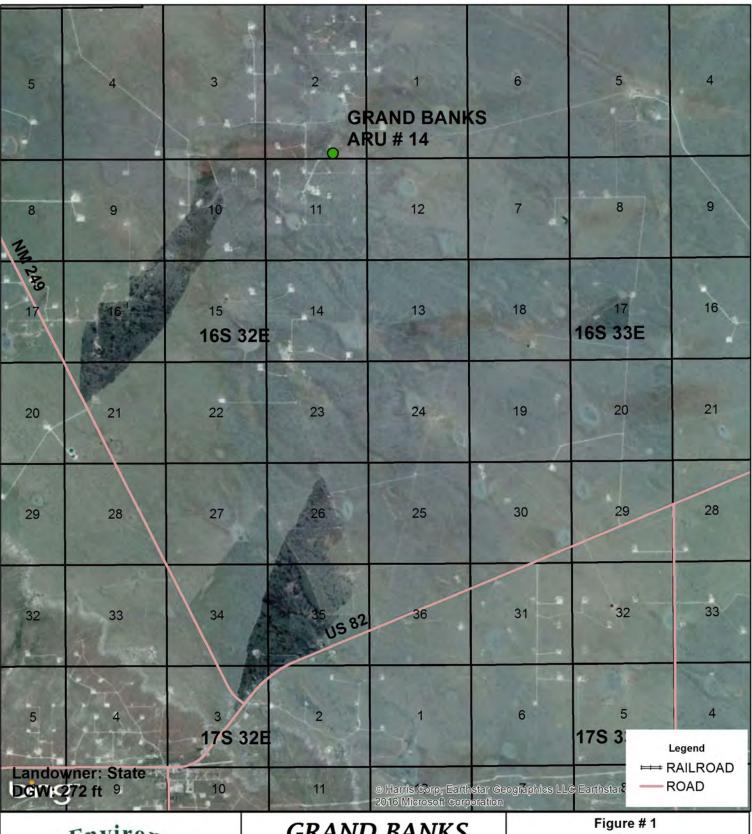
Copy 3: Basin Environmental Service Technologies, LLC

P.O. Box 301

Lovington, NM 88260



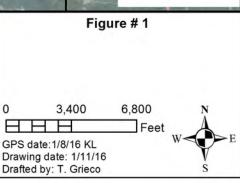
Site Location Map



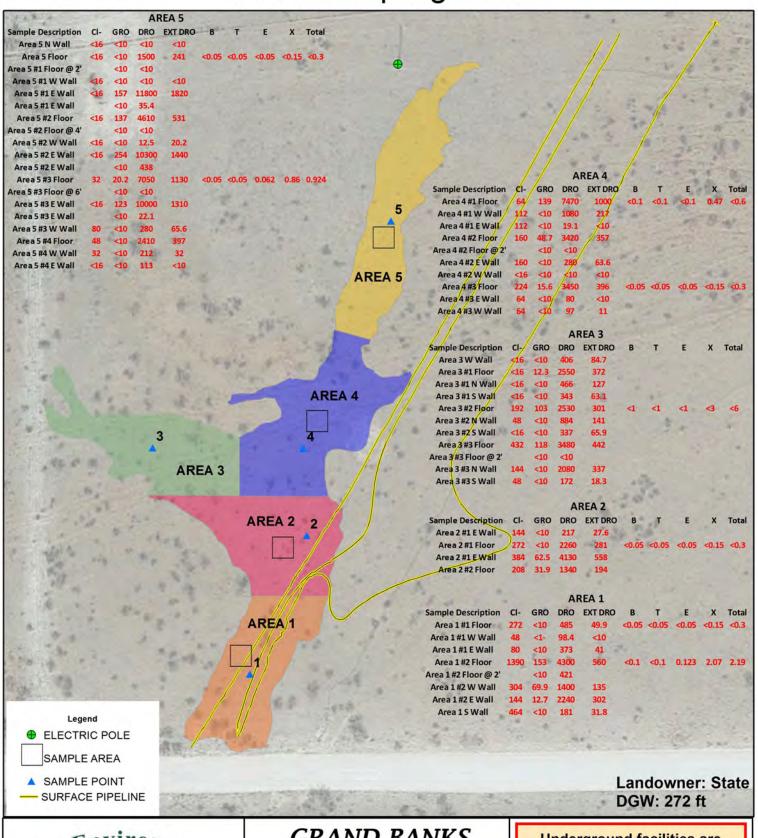


GRAND BANKS ARU #14

UL O SECTION 2 T-16-S R-32-E LEA COUNTY, NM



Area Sampling Data





GRAND BANKS ARU #14

UL O SECTION 2 T-16-S R-32-E LEA COUNTY, NM Underground facilities are spatially projected and need to be field verified.

GPS: 32.943974 -103.734328

0 50 100

HHHH Feet

GPS date:1/8/16 KL

Drawing date: 2/22/16

Drafted by: T. Grieco

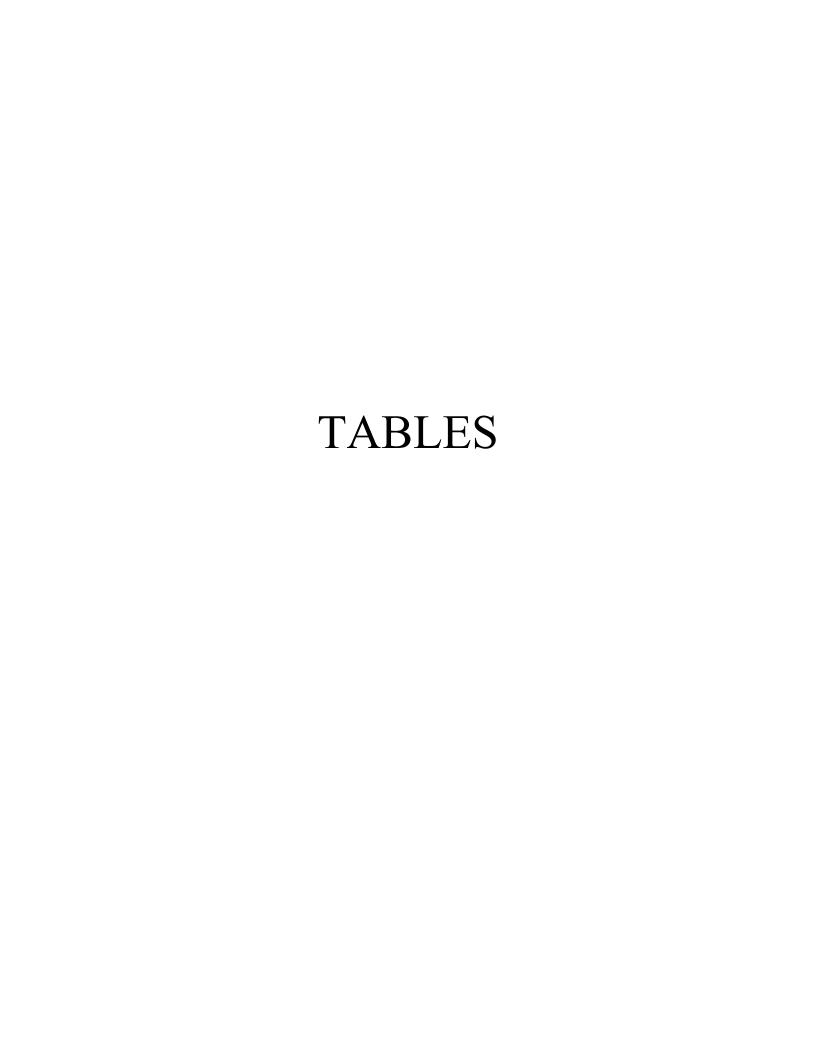


TABLE 1 CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN SOIL

GRAND BANKS ENERGY ARU #14 LEA COUNTY, NEW MEXICO NMOCD # - 1RP - 3985

	1				METHOD: E	PA SW 846	5-8021B, 503	30	MET	HOD: 80	15M		4500 CI-B
SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL- BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C ₆ -C ₁₀ (mg/Kg)	DRO C ₁₀ -C ₂₈ (mg/Kg)	ORO C ₂₈ -C ₃₅ (mg/Kg)	TPH C ₆ -C ₃₅ (mg/Kg)	CHLORIDE (mg/Kg)
Initial SP 1 @ 3"	3"	1/8/2016	In-Situ	<0.050	0.7550	1.14	22.4000	24.3000	2110.0	39800.0	NA	41910	1.630
Initial SP 2 @ 3"	3"	1/8/2016	In-Situ	<0.050	<0.050	<0.050	0.2740	<0.300	<10.0				<16.0
	3"									181.0 3080.0	NA NA	181 3136	<16.0
Initial SP 3 @ 3"		1/8/2016	In-Situ	<0.050	0.159	0.27	4.02	4.44	55.8 <10.0	277.0	NA NA	277	432.0
Initial SP 4 @ 3"	3"	1/8/2016	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300			NA		
Initial SP 5 @ 3"	3"	1/8/2016	In-Situ	0.773	25	9.23	107	142	3690.0	29200.0	NA	32890	64.0
Area 1 @ 18"	18"	1/29/2016	In-Situ	NA	NA	NA	NA	NA	<10.0	292.0	43.1	335	528.0
Area 2 @ 18"	18"	1/29/2016	In-Situ	NA	NA	NA	NA	NA	<10.0	255.0	33.8	289	<16.0
Area 4 @ 18"	18"	1/29/2016	In-Situ	NA	NA	NA	NA	NA	<10.0	308.0	34.3	342	48.0
Area 5 @ 18"	18"	1/29/2016	In-Situ	NA	NA	NA	NA	NA	745.0	4010.0	403.0	5158	48.0
												-	
Area 5 - N Wall	1'	3/22/2016	In-Situ	NA	NA	NA	NA	NA	<10.0	<10.0	<10.0	0	<16.0
Area 5 - #1 Floor	2'	3/22/2016	In-Situ	NA	NA	NA	NA	NA	<10.0	1500.0	241.0	1741	<16.0
Area 5 - #1 W Wall	1'	3/22/2016	In-Situ	NA	NA	NA	NA	NA	<10.0	<10.0	<10.0	0	<16.0
Area 5 - #1 E Wall	1'	3/22/2016	In-Situ	NA	NA	NA	NA	NA	157.0	11800.0	1820.0	13777	<16.0
Area 5 - #2 Floor	2'	3/22/2016	In-Situ	NA	NA	NA	NA	NA	137.0	4610.0	531.0	5278	<16.0
Area 5 - #2 W Wall	1'	3/22/2016	In-Situ	NA	NA	NA	NA	NA	<10.0	12.5	20.2	33	<16.0
Area 5 - #2 E Wall	1'	3/22/2016	In-Situ	NA	NA	NA	NA	NA	254.0	10300.0	1440.0	11994	<16.0
Area 5 - #3 Floor	2'	3/22/2016	In-Situ	<.050	<.050	0.062	0.862	0.924	20.2	7050.0	1130.0	8200	32.0
Area 5 - #3 E Wall	1'	3/22/2016	In-Situ	NA	NA	NA	NA	NA	123.0	10000.0	1310.0	11433	<16.0
Area 5 - #3 W Wall	1'	3/22/2016	In-Situ	NA	NA	NA	NA	NA	<10.0	280.0	65.6	346	80.0
Area 5 - #4 Floor	2'	3/22/2016	In-Situ	NA	NA	NA	NA	NA	<10.0	2410.0	397.0	2807	48.0
Area 5 - #4 W Wall	1'	3/22/2016	In-Situ	NA	NA	NA	NA	NA	<10.0	212.0	32.0	244	32.0
Area 5 - #4 E Wall	1'	3/22/2016	In-Situ	NA	NA	NA	NA	NA	<10.0	113.0	<10.0	113	<16.0
Area 4 - #1 Floor	2'	3/22/2016	In-Situ	<0.100	<0.100	<0.100	0.465	<0.600	139.0	7470.0	1000.0	8609	64.0
Area 4 - #1 W Wall	1'	3/22/2016	In-Situ	NA	NA	NA	NA	NA	<10.0	1080.0	217.0	1297	112.0
Area 4 - #1 E Wall	1'	3/22/2016	In-Situ	NA	NA	NA	NA	NA	<10.0	19.1	<10.0	19	112.0
Area 4 - #2 Floor	2'	3/22/2016	In-Situ	NA	NA	NA	NA	NA	48.7	3420.0	357.0	3826	160.0
Area 4 - #2 E Wall	1'	3/22/2016	In-Situ	NA	NA	NA	NA	NA	<10.0	280.0	63.6	344	160.0
Area 4 - #2 W Wall	1'	3/22/2016	In-Situ	NA	NA	NA	NA	NA	<10.0	<10.0	<10.0	0	<16.0
Area 4 - #3 Floor	2'	3/22/2016	In-Situ	<0.050	<0.050	<0.050	<0.150	< 0.300	15.6	3450.0	396.0	3862	224.0
Area 4 - #3 E Wall	1'	3/22/2016	In-Situ	NA	NA	NA	NA	NA	<10.0	80.0	<10.0	80	64.0
Area 4 - #3 W Wall	1'	3/22/2016	In-Situ	NA	NA	NA	NA	NA	<10.0	97.0	11.0	108	64.0
Area 2 - #1 E Wall	1'	3/22/2016	In-Situ	NA	NA	NA	NA	NA	<10.0	217.0	27.6	245	144.0
Area 2 - #1 Floor	2'	3/22/2016	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	2260.0	281.0	2541	272.0
Area 2 - #2 E Wall	1'	3/22/2016	In-Situ	NA	NA	NA	NA	NA	62.5	4130.0	558.0	4751	384.0
Area 2 - #2 Floor	2'	3/22/2016	In-Situ	NA	NA	NA	NA	NA	31.9	1340.0	194.0	1566	208.0
Area 3 - W Wall	1'	3/22/2016	In-Situ	NA	NA	NA	NA	NA	<10.0	406.0	84.7	491	<16.0
Area 3 - #1 Floor	2'	3/22/2016	In-Situ	NA	NA	NA	NA	NA	12.3	2550.0	372.0	2934	<16.0

TABLE 1 CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN SOIL

GRAND BANKS ENERGY ARU #14 LEA COUNTY, NEW MEXICO NMOCD # - 1RP - 3985

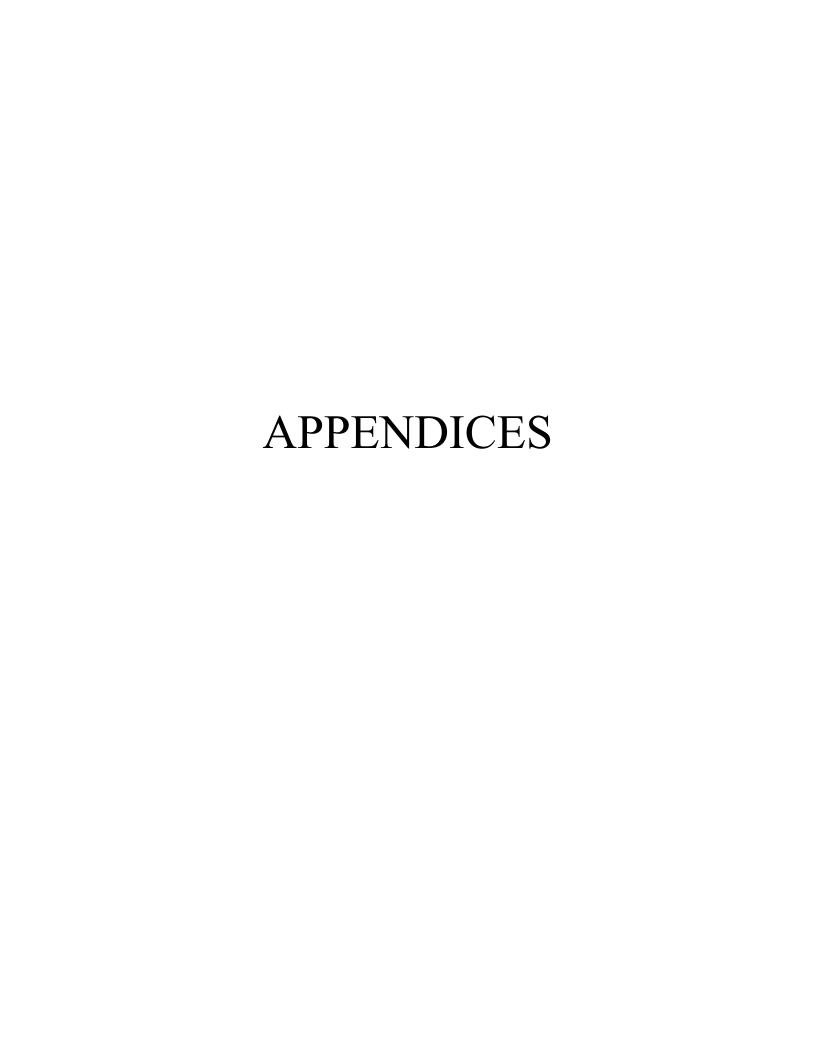
Area 3 - #1 N Wall	1'	3/22/2016	In-Situ	NA	NA	NA	NA	NA	<10.0	466.0	127.0	593	<16.0
Area 3 - #1 S Wall	1'	3/22/2016	In-Situ	NA	NA	NA	NA	NA	<10.0	343.0	63.1	406	<16.0
Area 3 - #2 Floor	2'	3/22/2016	In-Situ	<1.00	<1.00	<1.00	<3.00	<6.00	103.0	2530.0	301.0	2934	192.0
Area 3 - #2 N Wall	1'	3/22/2016	In-Situ	NA	NA	NA	NA	NA	<10.0	884.0	141.0	1025	48.0
Area 3 - #2 S Wall	1'	3/22/2016	In-Situ	NA	NA	NA	NA	NA	<10.0	337.0	65.9	403	<16.0
Area 3 - #3 Floor	2'	3/22/2016	In-Situ	NA	NA	NA	NA	NA	118.0	3840.0	442.0	4400	432.0
Area 3 - #3 N Wall	1'	3/22/2016	In-Situ	NA	NA	NA	NA	NA	<10.0	2080.0	337.0	2417	144.0
Area 3 - #3 S Wall	1'	3/22/2016	In-Situ	NA	NA	NA	NA	NA	<10.0	172.0	18.3	190	48.0
Area 1 - #1 Floor	2'	3/24/2016	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	485.0	49.9	535	272.0
Area 1 - #1 W Wall	1'	3/24/2016	In-Situ	NA	NA	NA	NA	NA	<10.0	98.4	<10.0	98	48.0
Area 1 - #1 E Wall	1'	3/24/2016	In-Situ	NA	NA	NA	NA	NA	<10.0	373.0	41.9	415	80.0
Area 1 - #2 Floor	2'	3/24/2016	In-Situ	<0.100	<0.100	0.123	2.07	2.19	153.0	4300.0	560.0	5013	1,390.0
Area 1 - #2 W Wall	1'	3/24/2016	In-Situ	NA	NA	NA	NA	NA	69.9	1400.0	135.0	1605	304.0
Area 1 - #2 E Wall	1'	3/24/2016	In-Situ	NA	NA	NA	NA	NA	12.7	2240.0	302.0	2555	144.0
Area 1 - S Wall	1'	3/24/2016	In-Situ	NA	NA	NA	NA	NA	<10.0	181.0	31.8	213	464.0
Area 1 - SP #2 - Floor @ 2'	2'	4/7/2016	In-Situ	NA	NA	NA	NA	NA	<10.0	421.0	NA	421	NA
Area 5 - SP #1 - Floor @ 2'	2'	4/7/2016	In-Situ	NA	NA	NA	NA	NA	<10.0	<10.0	NA	<10.0	NA
Area 5 - SP #2 - Floor @ 4'	4'	4/7/2016	In-Situ	NA	NA	NA	NA	NA	<10.0	<10.0	NA	<10.0	NA
Area 5 - SP #3 - Floor @ 6'	6'	4/7/2016	In-Situ	NA	NA	NA	NA	NA	<10.0	<10.0	NA	<10.0	NA
Area 4 - SP #2 - Floor @ 2'	2'	4/7/2016	In-Situ	NA	NA	NA	NA	NA	<10.0	<10.0	NA	<10.0	NA
Area 3 - SP #3 - Floor @ 2'	2'	4/7/2016	In-Situ	NA	NA	NA	NA	NA	<10.0	<10.0	NA	<10.0	NA
Area 5 - SP #1 - East Wall	1'	4/7/2016	In-Situ	NA	NA	NA	NA	NA	<10.0	35.4	<10.0	35	NA
Area 5 - SP #2 - East Wall	1'	4/7/2016	In-Situ	NA	NA	NA	NA	NA	<10.0	438.0	<10.0	438	NA
Area 5 - SP #3 - East Wall	1'	4/7/2016	In-Situ	NA	NA	NA	NA	NA NA	<10.0	22.1	<10.0	22	NA
		.,,,							1,010				
Area #1 SP #1 East Wall	1'	4/27/2016	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	667.0	97.9	765	640.0
Area #1 SP #1 West Wall	1'	4/27/2016	In-Situ	<0.050	< 0.050	<0.050	<0.150	<0.300	<10.0	271.0	48.5	320	176.0
Area #2 SP #1 East Wall	1'	4/27/2016	In-Situ	<0.050	<0.050	<0.050	<0.150	< 0.300	<10.0	345.0	69.0	414	112.0
Area #2 SP #1 West Wall	1'	4/27/2016	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	1740.0	338.0	2078	112.0
Area #4 SP #1 East Wall	1'	4/27/2016	In-Situ	<0.050	< 0.050	<0.050	<0.150	<0.300	<10.0	581.0	122.0	703	224.0
Area #4 SP #1 West Wall	1'	4/27/2016	In-Situ	<0.050	< 0.050	<0.050	<0.150	< 0.300	<10.0	196.0	32.9	229	48.0
Area #4 SP #2 East Wall	1'	4/27/2016	In-Situ	<0.050	<0.050	<0.050	0.473	0.473	17.0	1940.0	333.0	2290	112.0
Area #4 SP #2 West Wall	1'	4/27/2016	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	55.5	15.6	71	80.0
Area #5 SP #1 East Wall	1'	4/27/2016	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	19.4	11.1	31	96.0
Area #5 SP #1 West Wall	1'	4/27/2016	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	27.5	<10.0	28	48.0
Area #5 SP #2 East Wall	2'	4/27/2016	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	528.0	74.0	602	<16.0
Area #5 SP #2 West Wall	2'	4/27/2016	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	83.2	<10.0	83	<16.0
Area #5 SP #3 East Wall	3'	4/27/2016	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	84.6	12.8	97	16.0
Area #5 SP #3 West Wall	3'	4/27/2016	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	13.7	<10.0	14	48.0
Area #5 SP #4 East Wall	1'	4/27/2016	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	473.0	57.2	530	80.0
Area #5 SP #4 West Wall	1'	4/27/2016	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	112.0	18.2	130	96.0

TABLE 1 CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN SOIL

GRAND BANKS ENERGY ARU #14 LEA COUNTY, NEW MEXICO NMOCD # - 1RP - 3985

NMOCD Recommended Remediation Action Level	10		50		5000	1,000

NA = Not analyzed.



APPENDIX – A 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**

Revised August 8, 2011

Form C-141

Oil Conservation Division 1220 South St. Francis Dr.

Submit 1 Copy to appropriate District Office Eaccordance with 19.15.29 NMAC.

				25	inta Fe	e. NIVI 8/3	CO.	1							
			Rela	ease Notific	atio	n and Co	rı	rective A	ctio	on	***				No. of the second
				·		OPERA	ГО	PR		☐ Initi	al Re	port	⊠ I	Final	Repor
Name of Co	mpany: G	rand Banks	Energy C	ompany	1	Contact: Joh	ın I	Kimberly							
Address: 10	Desta Dri	ive, Suite 30	0 E, Mid	land, TX 79705	į	Telephone N	Vo.	· · · · · · · · · · · · · · · · · · ·					****		
Facility Nar	ne: ARU#	¥14				Facility Typ	e: (Oil Flow Lin	e						
Surface Ow	ner: NMS	LO		Mineral C	wner:	NMSLO	_			API N	o. 30-	025-0	0365		
				LOCA	TIO	N OF REI	LE	CASE							
Unit Letter	Section	Township	Range	Feet from the	,	South Line		eet from the	Eas	st/West Line	Cou	intv	-		
I	2	16S	32E	20	South			60	Eas			. C.	Lea		
	L			Latitude: 32	.943974	4 Longitude	: -]	103.734328	}		1				
				NAT	URE	OF RELI	EA	SE							
Type of Rele								lease: 75 bbls	10000000	Volume					
Source of Re	lease: New	surface poly f	low line			Date and H October 29		r of Occurrence 30-2015	e:	Date and 2015 – 9		of Dis	covery: (Octob	er 30,
Was Immedia	ate Notice (72	Yes [No Not Re	equired	If YES, To N/A	W	hom?							
By Whom? I						Date and H	our	r: Same as abo	ve.					*****	
Was a Water	course Reac	CONTRACTOR DO				If YES, Vo	lun	ne Impacting t	he W	atercourse.					
			Yes 🛚	No				4000	01/	/FD					
If a Watercou	irse was Im	pacted, Descr	ibe Fully.				1	APPRO	JV	EU					
								By Olivi	ia Y	/u at 2:4	18 p	m. J	lun 2	8. 2	2017
Describe Cau	on of Drobl	om and Dame	Jini Andin	T-1*					-	a at 21	O P .	11,		<i>-</i> , <i>-</i>	
				i Taken.* em was shut dow	n to atom	n the flow of		do all							
rrpory inte w	ora rarioa, v	caasing me re	icasc. bysi	em was shut dow	n to stoj	p me now or c	auc	de on.							
Describe Are	a Affected a	and Cleanup A	Action Tak	en.*						20 13					
hackfilled wit	ly 600°X/3	or area impa	cted. Area	was excavated detected to toured to surroun	own to a	approximately	4'	in some areas	. Onc	ce remediatio	n was	comple	ete, area	was	
seeds at a tim	e conducivo	e for germinat	ion.	loured to surroun	ung are	a. The site wa	is so	eeded with lan	ia-ov	ner approved	i non-i	nvasiv	e, non-no	oxiou	is
I hereby certi	fy that the i	nformation gi	ven above	is true and comp	lete to th	he best of my	kno	owledge and u	nders	stand that pur	suant t	o NM	OCD rul	es an	d
regulations al	l operators	are required to	o report ar	d/or file certain re	elease n	otifications ar	nd p	perform correc	tive a	actions for rel	eases '	which	may end	ange	r
public health	or the envir	ronment. The	acceptance	e of a C-141 repo	rt by the	e NMOCD ma	arke	ed as "Final Re	eport	" does not rel	ieve th	ie oper	ator of li	abili	ty
or the environ	perations n	ddition NMC	idequately	investigate and re	emediate	e contamination	on t	that pose a thre	eat to	ground wate	r, surf	ace wa	ter, hum	an he	alth
federal, state,	or local lay	ws and/or regu	lations	tance of a C-141	report d	oes not renev	e in	e operator of i	respo	nsibility for c	compli	ance w	71th any c	other	
Signature:	01 10 100 100	and of rogu	duiono.	A		***************************************	0	OIL CONS	CED	VATION	DIV	TCIC)XI		
11	104*100.0000+1111*		_	v:				OIL COIN	OLIN	VAIION	DIV	1010	<u>/1\</u>		
		11.													
	2. 1		1	1	1.	Approved by	Env	vironmental Sp	pecia	list: 📉	Λ,				
/-			-/							0	X				
Printed Name			cimb								1				
Title: P	eside	nt				Approval Dat	e:	6/28/201	7	Expiration	Date:	xx/x	x/xxxx		
E-mail Addre	ss: jek	nt 37386) gmai	l.com		Conditions of	Ap	pproval:							
THE RESERVE OF THE PARTY OF THE	1. 1						•	-			Att	tached	\Box		

APPENDIX – B Photo Documentation

Grand Banks Energy – ARU #144 Unit Letter I, Section 2, T16S, R32E



Release area, facing north

1/8/16



Excavation, facing north

4/14/16



Initial release area, facing south

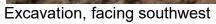
1/8/16



Excavation, facing northeast

4/14/16





4/14/16



Backfilling, facing north





Backfilling, facing northwest

5/13/16

Site complete, facing north

5/23/16

APPENDIX – C Analytical Reports



January 18, 2016

KYLE NORMAN

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: GRAND BANKS A. D.

Enclosed are the results of analyses for samples received by the laboratory on 01/12/16 8:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Basin Environmental Service KYLE NORMAN P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 01/12/2016 Sampling Date: 01/08/2016

Reported: 01/18/2016 Sampling Type: Soil

Project Name: GRAND BANKS A. D. Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: INITIAL SAMPLE PT. 1 @ 3" (H600062-01)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	01/15/2016	ND	2.22	111	2.00	12.2	
Toluene*	0.755	0.500	01/15/2016	ND	2.17	109	2.00	12.0	
Ethylbenzene*	1.14	0.500	01/15/2016	ND	1.97	98.7	2.00	11.0	
Total Xylenes*	22.4	1.50	01/15/2016	ND	5.93	98.9	6.00	10.3	
Total BTEX	24.3	3.00	01/15/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 73.6-14	0						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1630	16.0	01/13/2016	ND	448	112	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	2110	100	01/12/2016	ND	201	100	200	4.33	
DRO >C10-C28	39800	100	01/12/2016	ND	186	92.8	200	7.29	
Surrogate: 1-Chlorooctane	248 9	% 35-147	,						
Surrogate: 1-Chlorooctadecane	1070	% 28-171							

Cardinal Laboratories *=Accredited Analyte

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Basin Environmental Service **KYLE NORMAN** P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 01/12/2016 Sampling Date: 01/08/2016

Reported: 01/18/2016 Sampling Type: Soil

Project Name: GRAND BANKS A. D. Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Jodi Henson

Project Location: **NOT GIVEN**

Sample ID: INITIAL SAMPLE PT. 2 @ 3" (H600062-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2016	ND	2.22	111	2.00	12.2	
Toluene*	<0.050	0.050	01/12/2016	ND	2.17	109	2.00	12.0	
Ethylbenzene*	<0.050	0.050	01/12/2016	ND	1.97	98.7	2.00	11.0	
Total Xylenes*	0.274	0.150	01/12/2016	ND	5.93	98.9	6.00	10.3	
Total BTEX	<0.300	0.300	01/12/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	128 9	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/13/2016	ND	448	112	400	3.64	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/12/2016	ND	201	100	200	4.33	
DRO >C10-C28	181	10.0	01/12/2016	ND	186	92.8	200	7.29	
Surrogate: 1-Chlorooctane	91.1	% 35-147	7						
Surrogate: 1-Chlorooctadecane	104 9	% 28-171							

Surrogate: 1-Chlorooctadecane 28-171

Cardinal Laboratories *=Accredited Analyte

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Basin Environmental Service **KYLE NORMAN** P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 01/12/2016 Sampling Date: 01/08/2016

Reported: 01/18/2016 Sampling Type: Soil

Project Name: GRAND BANKS A. D. Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: **NOT GIVEN**

Sample ID: INITIAL SAMPLE PT. 3 @ 3" (H600062-03)

Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	DDD	
<0.050				55	% Recovery	True value QC	RPD	Qualifier
~0.030	0.050	01/12/2016	ND	2.22	111	2.00	12.2	
0.159	0.050	01/12/2016	ND	2.17	109	2.00	12.0	
0.270	0.050	01/12/2016	ND	1.97	98.7	2.00	11.0	
4.02	0.150	01/12/2016	ND	5.93	98.9	6.00	10.3	
4.44	0.300	01/12/2016	ND					
110 %	6 73.6-14	0						
mg/	kg	Analyze	d By: AP					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<16.0	16.0	01/13/2016	ND	448	112	400	3.64	
mg/	kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
55.8	10.0	01/12/2016	ND	201	100	200	4.33	
3080	10.0	01/12/2016	ND	186	92.8	200	7.29	
•	0.270 4.02 4.44 110 % mg/ Result <16.0 mg/ Result 55.8	0.270 0.050 4.02 0.150 4.44 0.300 110 % 73.6-140 mg/kg Result Reporting Limit <16.0 16.0 mg/kg Result Reporting Limit 55.8 10.0	0.270 0.050 01/12/2016 4.02 0.150 01/12/2016 4.44 0.300 01/12/2016 110 % 73.6-140 mg/ky Analyze Result Reporting Limit Analyzed <16.0 16.0 01/13/2016 mg/ky Analyze Result Reporting Limit Analyzed 55.8 10.0 01/12/2016	0.270 0.050 01/12/2016 ND 4.02 0.150 01/12/2016 ND 4.44 0.300 01/12/2016 ND 110 % 73.6-140 mg/kg Analyzed By: AP Result Reporting Limit Analyzed Method Blank <16.0	0.270 0.050 01/12/2016 ND 1.97 4.02 0.150 01/12/2016 ND 5.93 4.44 0.300 01/12/2016 ND IIO % 73.6-140 mg/kg Analyzed By: AP Result Reporting Limit Analyzed Method Blank BS <16.0	0.270 0.050 01/12/2016 ND 1.97 98.7 4.02 0.150 01/12/2016 ND 5.93 98.9 4.44 0.300 01/12/2016 ND ND 110 % 73.6-140 mg/kg Analyzed By: AP Result Reporting Limit Analyzed Method Blank BS % Recovery <16.0	0.270 0.050 01/12/2016 ND 1.97 98.7 2.00 4.02 0.150 01/12/2016 ND 5.93 98.9 6.00 4.44 0.300 01/12/2016 ND ND </td <td>0.270 0.050 01/12/2016 ND 1.97 98.7 2.00 11.0 4.02 0.150 01/12/2016 ND 5.93 98.9 6.00 10.3 4.44 0.300 01/12/2016 ND S.93 98.9 6.00 10.3 III 0 % 73.6-140 ND AP AP</td>	0.270 0.050 01/12/2016 ND 1.97 98.7 2.00 11.0 4.02 0.150 01/12/2016 ND 5.93 98.9 6.00 10.3 4.44 0.300 01/12/2016 ND S.93 98.9 6.00 10.3 III 0 % 73.6-140 ND AP AP

141 % 28-171 Surrogate: 1-Chlorooctadecane

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Basin Environmental Service KYLE NORMAN P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received: 01/12/2016 Sampling Date: 01/08/2016

Reported: 01/18/2016 Sampling Type: Soil

Project Name:GRAND BANKS A. D.Sampling Condition:Cool & IntactProject Number:NONE GIVENSample Received By:Jodi HensonProject Location:NOT GIVEN

Sample ID: INITIAL SAMPLE PT. 4 @ 3" (H600062-04)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2016	ND	2.22	111	2.00	12.2	
Toluene*	<0.050	0.050	01/12/2016	ND	2.17	109	2.00	12.0	
Ethylbenzene*	<0.050	0.050	01/12/2016	ND	1.97	98.7	2.00	11.0	
Total Xylenes*	<0.150	0.150	01/12/2016	ND	5.93	98.9	6.00	10.3	
Total BTEX	<0.300	0.300	01/12/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	01/13/2016	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/12/2016	ND	201	100	200	4.33	
DRO >C10-C28	277	10.0	01/12/2016	ND	186	92.8	200	7.29	
Surrogate: 1-Chlorooctane	94.4	% 35-147	,						
Surrogate: 1-Chlorooctadecane	92.0	% 28-171							

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Basin Environmental Service KYLE NORMAN P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 01/12/2016 Sampling Date: 01/08/2016

Reported: 01/18/2016 Sampling Type: Soil

Project Name: GRAND BANKS A. D. Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: INITIAL SAMPLE PT. 5 @ 3" (H600062-05)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.773	0.500	01/15/2016	ND	2.22	111	2.00	12.2	
Toluene*	25.0	0.500	01/15/2016	ND	2.17	109	2.00	12.0	
Ethylbenzene*	9.23	0.500	01/15/2016	ND	1.97	98.7	2.00	11.0	
Total Xylenes*	107	1.50	01/15/2016	ND	5.93	98.9	6.00	10.3	
Total BTEX	142	3.00	01/15/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	119	% 73.6-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/13/2016	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	3690	50.0	01/12/2016	ND	201	100	200	4.33	
			01/12/2016	ND	186	92.8	200	7.29	

Surrogate: 1-Chlorooctane 249 % 35-147 Surrogate: 1-Chlorooctadecane 730 % 28-171

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Notes and Definitions

S-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.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

Cardinal Laboratories *=Accredited Analyte

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020 2111 Beechwood, Abilene, TX 79603

	(505) 333-2320 FAX (505) 333-24/0	10 (020) 010-1001 1	WV (250)010-1050							1
Company Name:	Grand Banks Energy	794	BILL TO				A	ANALYSIS F	REQUEST	_
Project Manager:		رل	P.O. #:				_			_
Address:			Company: Basin				_	IS	,	_
city: Hobbs	State: NM	Zip: 88240	Attn:				_	or		_
Phone #:	Fax#:		Address:					٩n		_
Project #:	Project Owner:		City:	S	М		_	S/A		
Project Name:			State: Zip:	des	15	X	ΓP			-
Project Location:	Grand Banks A.F	.0	Phone #:	orio	30	E	-	DS		***************************************
Sampler Name:	Carania Lewis		Fax #:	nlo	18	B7	-			
FOR LAB USE ONLY	- 1	MATRIX	PRESERV SAMPLING		PH			te		-
Lab I.D.	Sample I.D.	OR (C)OMP AINERS DWATER NATER	SE:		Т			omple		e*M1 17 1 84
HEODOLEA		# CON	OTHE ACID/O	TIME				(
_	hitial Sample Pt. 1@3"	-	1-8-16	3:33	1	1				
e de	Same 4.2031	6-	1816	3:36	1	1				_
60)	Sample	61	1-8-16	3:37	1	1				_
D D	Sample	6-1	91-8-1	3:38	1	1				
(n	1 Sample Pt 50	6	1-8-16		1	1				1
							4			
PLEASE NOTE: Liability and enalyses. All claims including service. In no event shall Card	PLEASE NOTE: Liability and Damages. Cardina's fability and client's exclusive remedy for any claim arising whether based in contract or fort, shall be inrained to the amount paid by the client for the sandyses. All claims including those for negligance and any other cause whatsoever shall be dearned waived unless made in writing and received by Cerdinal within 30 days effer completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss or profits incurred by client, its subsidiaries.	ny claim arising whether based in contre semed waived unless made in writing a without limitation, business interruptions	ct or loirt, shall be limited to the amount paind received by Cerdinel within 30 days effect, loss of use, or loss of profits incurred by	id by the client for the er campletion of the applica client, its subskiferies.	able					1
Relinquished By:	affiliates or successors arising out of or related to the performance of services heraunder by C Relinquished By:	Received By:	Date: Reserved By:	Phone Result:	□ Yes		No A	Add'l Phone #:		
2	1-12-16	DA.	MARIA	REMARKS:	□ Ye	E		dd'l Fax #:		

Cool Intact
Wes Lives Sample Condition

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

Jarranja

Lewis

Date: Time:

Received By:

email results:

I kamplain@ basinens. com

Klewis@ basin env.com Knorman@basinenl.com

[†] Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



February 19, 2016

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: GRAND BANKS ARU #14

Enclosed are the results of analyses for samples received by the laboratory on 02/02/16 8:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

Jodi Henson

Sample Received By:



Analytical Results For:

Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

 Received:
 02/02/2016
 Sampling Date:
 01/29/2016

 Reported:
 02/19/2016
 Sampling Type:
 Soil

Reported: 02/19/2016 Sampling Type: Soil
Project Name: GRAND BANKS ARU #14 Sampling Condition: Cool & Intact

Project Number: AFE 26056
Project Location: NOT GIVEN

Sample ID: AREA 1 @ 18" (H600231-01)

Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	02/03/2016	ND	432	108	400	0.00	
TPH 8015M	mg/l	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/02/2016	ND	214	107	200	2.54	
DRO >C10-C28	292	10.0	02/02/2016	ND	208	104	200	6.50	
EXT DRO >C28-C35	43.1	10.0	02/02/2016	ND					
Surrogate: 1-Chlorooctane	81.7 %	% 35-147	,						
Surrogate: 1-Chlorooctadecane	86.3 %	% 28-171							

Sample ID: AREA 2 @ 18" (H600231-02)

Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/03/2016	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/02/2016	ND	214	107	200	2.54	
DRO >C10-C28	255	10.0	02/02/2016	ND	208	104	200	6.50	
EXT DRO >C28-C35	33.8	10.0	02/02/2016	ND					
Surrogate: 1-Chlorooctane	83.2	% 35-147	,						
Surrogate: 1-Chlorooctadecane	89.3	% 28-171							

Cardinal Laboratories *=Accredited Analyte

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Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received: 02/02/2016 Sampling Date: 01/29/2016

Reported: 02/19/2016 Sampling Type: Soil

Project Name: GRAND BANKS ARU #14 Sampling Condition: Cool & Intact Sample Received By: Project Number: AFE 26056 Jodi Henson

Project Location: NOT GIVEN

Sample ID: AREA 4 @ 18" (H600231-03)

Chloride, SM4500CI-B	mg/l	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/03/2016	ND	432	108	400	0.00	
TPH 8015M	mg/l	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/02/2016	ND	214	107	200	2.54	
DRO >C10-C28	308	10.0	02/02/2016	ND	208	104	200	6.50	
EXT DRO >C28-C35	34.3	10.0	02/02/2016	ND					
Surrogate: 1-Chlorooctane	75.6 %	6 35-147	,						
Surrogate: 1-Chlorooctadecane	83.2 %	6 28-171							

Surrogate: I-Chlorooctadecane 83.2 %

Sample ID: AREA 5 @ 18" (H600231-04)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/03/2016	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	745	10.0	02/02/2016	ND	214	107	200	2.54	
DRO >C10-C28	4010	10.0	02/02/2016	ND	208	104	200	6.50	
EXT DRO >C28-C35	403	10.0	02/02/2016	ND					
Surrogate: 1-Chlorooctane	129	% 35-147							
Surrogate: 1-Chlorooctadecane	128	% 28-171							

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

	(ETE) 303 3336 EAY (ETE) 393-34	76															l			١	١	١	١					1
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ddress: P.O.	P.O. Box 301								S	Company:	an	*		BASIN	_													_
8	State: NM	Zip: 88260	8	326	0				A	Attn:																		_
#:	(575)396-2378 Fax #: (575)396-1429	6-14	69						>	Address:	SS	1						.D					ī					-
	AFE 26056 Project Owner:								Ω	City:							1)	HOL										_
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roject Location:	GRAND BANKS ARU #14								P	Phone #:	#					nlor	(80	021										_
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Sampler - UPS - Bus - Other: ż † Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

Relinquished By:

19/35 AM

Belivered By: (Circle One)

FYO am

Please email results to pm@basinenv.com & Tasavoie@BassPet.com

FORM-006 Revision 1.0 Relinquished By:

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whatsoever shall be deemed waked unless made in writing and received by Cardinal within 30 days after completion of the applicable all duranges, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, envisors harmunder by Cardinal, requiritiess of whether such claim is based upon any of the above stated reasons or otherwise.

Fax Result: REMARKS:

☐ Yes

N N

Add'l Phone #: Add'l Fax #:



March 30, 2016

ROBBIE RUNNELS

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: GRAND BANKS ARU #14

Enclosed are the results of analyses for samples received by the laboratory on 03/23/16 10:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Basin Environmental Service ROBBIE RUNNELS P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received: 03/23/2016 Sampling Date: 03/22/2016

Reported: 03/30/2016 Sampling Type: Soil

Project Name: GRAND BANKS ARU #14 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: LEA COUNTY, NM

Sample ID: AREA 5 - N WALL (H600621-01)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/23/2016	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/23/2016	ND	203	101	200	4.31	
DRO >C10-C28	<10.0	10.0	03/23/2016	ND	215	108	200	14.0	
EXT DRO >C28-C35	<10.0	10.0	03/23/2016	ND					
Surrogate: 1-Chlorooctane	97.0	% 35-147	,						
Surrogate: 1-Chlorooctadecane	107	% 28-171							

Cardinal Laboratories *=Accredited Analyte

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Basin Environmental Service **ROBBIE RUNNELS** P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received: 03/23/2016 Sampling Date: 03/22/2016

Reported: 03/30/2016 Sampling Type: Soil

Project Name: GRAND BANKS ARU #14 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: LEA COUNTY, NM

Sample ID: AREA 5 - # 1 FLOOR (H600621-02)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/24/2016	ND	2.00	99.9	2.00	3.95	
Toluene*	<0.050	0.050	03/24/2016	ND	1.93	96.5	2.00	4.58	
Ethylbenzene*	<0.050	0.050	03/24/2016	ND	1.71	85.6	2.00	5.45	
Total Xylenes*	<0.150	0.150	03/24/2016	ND	5.26	87.7	6.00	5.58	
Total BTEX	<0.300	0.300	03/24/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 73.6-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/23/2016	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/23/2016	ND	203	101	200	4.31	
DRO >C10-C28	1500	10.0	03/23/2016	ND	215	108	200	14.0	
EXT DRO >C28-C35	241	10.0	03/23/2016	ND					
Surrogate: 1-Chlorooctane	93.1	% 35-147	,						
Surrogate: 1-Chlorooctadecane	119	% 28-171	1						

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Celeg D. Keene



Basin Environmental Service ROBBIE RUNNELS P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received: 03/23/2016 Sampling Date: 03/22/2016

Reported: 03/30/2016 Sampling Type: Soil

Project Name: GRAND BANKS ARU #14 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: LEA COUNTY, NM

Sample ID: AREA 5 - #1 W WALL (H600621-03)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/23/2016	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/23/2016	ND	203	101	200	4.31	
DRO >C10-C28	<10.0	10.0	03/23/2016	ND	215	108	200	14.0	
EXT DRO >C28-C35	<10.0	10.0	03/23/2016	ND					
Surrogate: 1-Chlorooctane	93.0	% 35-147	,						
Surrogate: 1-Chlorooctadecane	101	% 28-171							

Sample ID: AREA 5 - #1 E WALL (H600621-04)

Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/23/2016	ND	432	108	400	3.77	
TPH 8015M	H 8015M mg/kg		Analyze	d By: CK					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	157	10.0	03/23/2016	ND	203	101	200	4.31	
DRO >C10-C28	11800	10.0	03/23/2016	ND	215	108	200	14.0	
EXT DRO >C28-C35	1820	10.0	03/23/2016	ND					
Surrogate: 1-Chlorooctane	141 9	% 35-147							
Surrogate: 1-Chlorooctadecane	381 9	% 28-171							

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Celeg D. Freene



Basin Environmental Service ROBBIE RUNNELS P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received: 03/23/2016 Sampling Date: 03/22/2016

Reported: 03/30/2016 Sampling Type: Soil

Project Name: GRAND BANKS ARU #14 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: LEA COUNTY, NM

Sample ID: AREA 5 - #2 FLOOR (H600621-05)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/23/2016	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	137	10.0	03/23/2016	ND	203	101	200	4.31	
DRO >C10-C28	4610	10.0	03/23/2016	ND	215	108	200	14.0	
EXT DRO >C28-C35	531	10.0	03/23/2016	ND					
Surrogate: 1-Chlorooctane	126 %	6 35-147	,						
Surrogate: 1-Chlorooctadecane	153 %	6 28-171							

Sample ID: AREA 5 - #2 W WALL (H600621-06)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/23/2016	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/23/2016	ND	203	101	200	4.31	
DRO >C10-C28	12.5	10.0	03/23/2016	ND	215	108	200	14.0	
EXT DRO >C28-C35	20.2	10.0	03/23/2016	ND					
Surrogate: 1-Chlorooctane	99.5	% 35-147							
Surrogate: 1-Chlorooctadecane	101	% 28-171							

Cardinal Laboratories *=Accredited Analyte

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Basin Environmental Service ROBBIE RUNNELS P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received: 03/23/2016 Sampling Date: 03/22/2016

Reported: 03/30/2016 Sampling Type: Soil

Project Name: GRAND BANKS ARU #14 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: LEA COUNTY, NM

Sample ID: AREA 5 - #2 E WALL (H600621-07)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/23/2016	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: CK					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	254	10.0	03/23/2016	ND	203	101	200	4.31	
DRO >C10-C28	10300	10.0	03/23/2016	ND	215	108	200	14.0	
EXT DRO >C28-C35	1440	10.0	03/23/2016	ND					
Surrogate: 1-Chlorooctane	168	% 35-147	,						
Surrogate: 1-Chlorooctadecane	275	% 28-171							

Surrogate: 1-Chlorooctadecane 275 % 28-171

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Basin Environmental Service ROBBIE RUNNELS P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received: 03/23/2016 Reported: 03/30/2016

GRAND BANKS ARU #14

mg/kg

Project Name: GRAND BANKS
Project Number: NONE GIVEN

Project Location: LEA COUNTY, NM

Sampling Date: 03/22/2016

Sampling Type: Soil

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

Sample ID: AREA 5 - #3 FLOOR (H600621-08)

BTEX 8021B

DIEX COLLD	9/	7 1.9	Analyzo	u 571115					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/24/2016	ND	2.00	99.9	2.00	3.95	
Toluene*	<0.050	0.050	03/24/2016	ND	1.93	96.5	2.00	4.58	
Ethylbenzene*	0.062	0.050	03/24/2016	ND	1.71	85.6	2.00	5.45	
Total Xylenes*	0.862	0.150	03/24/2016	ND	5.26	87.7	6.00	5.58	
Total BTEX	0.924	0.300	03/24/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.6-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/23/2016	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: CK					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	20.2	10.0	03/23/2016	ND	203	101	200	4.31	
DRO >C10-C28	7050	10.0	03/23/2016	ND	215	108	200	14.0	
EXT DRO >C28-C35	1130	10.0	03/23/2016	ND					

Analyzed By: MS

Surrogate: 1-Chlorooctane 97.3 % 35-147
Surrogate: 1-Chlorooctadecane 224 % 28-171

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Received: 03/23/2016 Sampling Date: 03/22/2016

Reported: 03/30/2016 Sampling Type: Soil

Project Name: GRAND BANKS ARU #14 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: LEA COUNTY, NM

Sample ID: AREA 5 - #3 E WALL (H600621-09)

Chloride, SM4500CI-B	oride, SM4500Cl-B mg/kg		Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/23/2016	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: CK					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	123	10.0	03/23/2016	ND	199	99.4	200	6.46	
DRO >C10-C28	10000	10.0	03/23/2016	ND	189	94.3	200	0.437	
EXT DRO >C28-C35	1310	10.0	03/23/2016	ND					
Surrogate: 1-Chlorooctane	157	% 35-147	,						

Sample ID: AREA 5 - #3 W WALL (H600621-10)

299 %

28-171

Surrogate: 1-Chlorooctadecane

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/23/2016	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/23/2016	ND	199	99.4	200	6.46	
DRO >C10-C28	280	10.0	03/23/2016	ND	189	94.3	200	0.437	
EXT DRO >C28-C35	65.6	10.0	03/23/2016	ND					
Surrogate: 1-Chlorooctane	104 9	% 35-147	,						
Surrogate: 1-Chlorooctadecane	109 9	% 28-171							

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Received: 03/23/2016

Reported: 03/30/2016 Project Name: GRAND BANKS ARU #14

Project Number: NONE GIVEN

Project Location: LEA COUNTY, NM

Sampling Date: 03/22/2016

Sampling Type: Soil

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

Sample ID: AREA 5 - #4 FLOOR (H600621-11)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/23/2016	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/24/2016	ND	199	99.4	200	6.46	
DRO >C10-C28	2410	10.0	03/24/2016	ND	189	94.3	200	0.437	
EXT DRO >C28-C35	397	10.0	03/24/2016	ND					
Surrogate: 1-Chlorooctane	83.5	% 35-147	7						

Surrogate: 1-Chlorooctadecane 129 % 28-171

Sample ID: AREA 5 - #4 W WALL (H600621-12)

Chloride, SM4500CI-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/23/2016	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/24/2016	ND	199	99.4	200	6.46	
DRO >C10-C28	212	10.0	03/24/2016	ND	189	94.3	200	0.437	
EXT DRO >C28-C35	32.0	10.0	03/24/2016	ND					
Surrogate: 1-Chlorooctane	100	% 35-147	7						

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Celey D. Keine

Surrogate: 1-Chlorooctadecane

115 %

28-171



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Fax To: (575) 396-1429

Received: 03/23/2016 Sampling Date: 03/22/2016

Reported: 03/30/2016 Sampling Type: Soil

Project Name: GRAND BANKS ARU #14 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: LEA COUNTY, NM

Sample ID: AREA 5 - #4 E WALL (H600621-13)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/23/2016	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/24/2016	ND	199	99.4	200	6.46	
DRO >C10-C28	113	10.0	03/24/2016	ND	189	94.3	200	0.437	
EXT DRO >C28-C35	<10.0	10.0	03/24/2016	ND					
Surrogate: 1-Chlorooctane	90.9	% 35-147							
Surrogate: 1-Chlorooctadecane	112 9	% 28-171							

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Received: 03/23/2016 Sampling Date: 03/22/2016

Reported: 03/30/2016 Sampling Type: Soil

Project Name: GRAND BANKS ARU #14 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: LEA COUNTY, NM

Sample ID: AREA 4 - #1 FLOOR (H600621-14)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	03/24/2016	ND	2.00	99.9	2.00	3.95	
Toluene*	<0.100	0.100	03/24/2016	ND	1.93	96.5	2.00	4.58	
Ethylbenzene*	<0.100	0.100	03/24/2016	ND	1.71	85.6	2.00	5.45	
Total Xylenes*	0.465	0.300	03/24/2016	ND	5.26	87.7	6.00	5.58	
Total BTEX	<0.600	0.600	03/24/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 73.6-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/23/2016	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	139	10.0	03/24/2016	ND	199	99.4	200	6.46	
DRO >C10-C28	7470	10.0	03/24/2016	ND	189	94.3	200	0.437	
EXT DRO >C28-C35	1000	10.0	03/24/2016	ND					
Surrogate: 1-Chlorooctane	201	% 35-147	7						
Surrogate: 1-Chlorooctadecane	436	% 28-171							

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Received: 03/23/2016 Sampling Date: 03/22/2016

Reported: 03/30/2016 Sampling Type: Soil

Project Name: GRAND BANKS ARU #14 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: LEA COUNTY, NM

Sample ID: AREA 4 - #1 W WALL (H600621-15)

Chloride, SM4500CI-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	03/23/2016	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/24/2016	ND	199	99.4	200	6.46	
DRO >C10-C28	1080	10.0	03/24/2016	ND	189	94.3	200	0.437	
EXT DRO >C28-C35	217	10.0	03/24/2016	ND					
Surrogate: 1-Chlorooctane	96.2	% 35-147							
Surrogate: 1-Chlorooctadecane	123 9	% 28-171							

Sample ID: AREA 4 - #1 E WALL (H600621-16)

Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	03/23/2016	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/24/2016	ND	199	99.4	200	6.46	
DRO >C10-C28	19.1	10.0	03/24/2016	ND	189	94.3	200	0.437	
EXT DRO >C28-C35	<10.0	10.0	03/24/2016	ND					
Surrogate: 1-Chlorooctane	97.4	% 35-147	,						
Surrogate: 1-Chlorooctadecane	104 5	% 28-171							

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Received: 03/23/2016 Sampling Date: 03/22/2016

Reported: 03/30/2016 Sampling Type: Soil

Project Name: GRAND BANKS ARU #14 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: LEA COUNTY, NM

Sample ID: AREA 4 - #2 FLOOR (H600621-17)

Chloride, SM4500CI-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	03/23/2016	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	48.7	10.0	03/24/2016	ND	199	99.4	200	6.46	
DRO >C10-C28	3420	10.0	03/24/2016	ND	189	94.3	200	0.437	
EXT DRO >C28-C35	357	10.0	03/24/2016	ND					
Surrogate: 1-Chlorooctane	117 9	% 35-147	,						
Surrogate: 1-Chlorooctadecane	156	% 28-171							

Sample ID: AREA 4 - #2 E WALL (H600621-18)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	03/23/2016	ND	432	108	400	3.77	
TPH 8015M	mg/l	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/24/2016	ND	199	99.4	200	6.46	
DRO >C10-C28	280	10.0	03/24/2016	ND	189	94.3	200	0.437	
EXT DRO >C28-C35	63.6	10.0	03/24/2016	ND					
Surrogate: 1-Chlorooctane	105 %	35-147							
Surrogate: 1-Chlorooctadecane	116 %	<i>28-171</i>							

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Basin Environmental Service ROBBIE RUNNELS P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 03/23/2016 Sampling Date: 03/22/2016

Reported: 03/30/2016 Sampling Type: Soil

Project Name: GRAND BANKS ARU #14 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: LEA COUNTY, NM

Sample ID: AREA 4 - #2 W WALL (H600621-19)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/23/2016	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/24/2016	ND	199	99.4	200	6.46	
DRO >C10-C28	<10.0	10.0	03/24/2016	ND	189	94.3	200	0.437	
EXT DRO >C28-C35	<10.0	10.0	03/24/2016	ND					
Surrogate: 1-Chlorooctane	91.5	% 35-147							
Surrogate: 1-Chlorooctadecane	104	% 28-171							

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Fax To: (575) 396-1429

Received: 03/23/2016 Reported: 03/30/2016

Project Name: GRAND BANKS ARU #14

Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 03/22/2016

Sampling Type: Soil
Sampling Condition: Cool & Intact

Sample Received By: Jodi Henson

Sample ID: AREA 4 - #3 FLOOR (H600621-20)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/24/2016	ND	2.00	99.9	2.00	3.95	
Toluene*	< 0.050	0.050	03/24/2016	ND	1.93	96.5	2.00	4.58	
Ethylbenzene*	<0.050	0.050	03/24/2016	ND	1.71	85.6	2.00	5.45	
Total Xylenes*	<0.150	0.150	03/24/2016	ND	5.26	87.7	6.00	5.58	
Total BTEX	<0.300	0.300	03/24/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	73.6-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	03/23/2016	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	15.6	10.0	03/24/2016	ND	199	99.4	200	6.46	
DRO >C10-C28	3450	10.0	03/24/2016	ND	189	94.3	200	0.437	
EXT DRO >C28-C35	396	10.0	03/24/2016	ND					
Surrogate: 1-Chlorooctane	101 9	% 35-147	,						
Surrogate: 1-Chlorooctadecane	145 9	% 28-171							

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Celey D. Keine

*=Accredited Analyte



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Received: 03/23/2016 Sampling Date: 03/22/2016

Reported: 03/30/2016 Sampling Type: Soil

Project Name: GRAND BANKS ARU #14 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: LEA COUNTY, NM

Sample ID: AREA 4 - #3 E WALL (H600621-21)

Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/23/2016	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/24/2016	ND	199	99.4	200	6.46	
DRO >C10-C28	80.0	10.0	03/24/2016	ND	189	94.3	200	0.437	
EXT DRO >C28-C35	<10.0	10.0	03/24/2016	ND					
Surrogate: 1-Chlorooctane	95.5	% 35-147							
Surrogate: 1-Chlorooctadecane	118 9	% 28-171							

Sample ID: AREA 4 - #3 W WALL (H600621-22)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/23/2016	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/24/2016	ND	199	99.4	200	6.46	
DRO >C10-C28	97.0	10.0	03/24/2016	ND	189	94.3	200	0.437	
EXT DRO >C28-C35	11.0	10.0	03/24/2016	ND					
Surrogate: 1-Chlorooctane	102	% 35-147	,						
Surrogate: 1-Chlorooctadecane	121	% 28-171							

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Basin Environmental Service ROBBIE RUNNELS P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received: 03/23/2016 Sampling Date: 03/22/2016

Reported: 03/30/2016 Sampling Type: Soil

Project Name: GRAND BANKS ARU #14 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: LEA COUNTY, NM

Sample ID: AREA 2 - #1 E WALL (H600621-23)

Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	03/23/2016	ND	432	108	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/24/2016	ND	199	99.4	200	6.46	
DRO >C10-C28	217	10.0	03/24/2016	ND	189	94.3	200	0.437	
EXT DRO >C28-C35	27.6	10.0	03/24/2016	ND					
Surrogate: 1-Chlorooctane	94.1	% 35-147	,						
Surrogate: 1-Chlorooctadecane	106 9	% 28-171							

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Sample Received By:

03/22/2016

Jodi Henson



Analytical Results For:

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Received: 03/23/2016 Sampling Date:

Reported: 03/30/2016 Sampling Type: Soil Project Name: GRAND BANKS ARU #14 Sampling Condition: Cool & Intact

Project Number: NONE GIVEN

Project Location: LEA COUNTY, NM

Sample ID: AREA 2 - #1 FLOOR (H600621-24)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/24/2016	ND	2.00	99.9	2.00	3.95	
Toluene*	<0.050	0.050	03/24/2016	ND	1.93	96.5	2.00	4.58	
Ethylbenzene*	<0.050	0.050	03/24/2016	ND	1.71	85.6	2.00	5.45	
Total Xylenes*	<0.150	0.150	03/24/2016	ND	5.26	87.7	6.00	5.58	
Total BTEX	<0.300	0.300	03/24/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 73.6-14	0						
Chloride, SM4500CI-B	mg/	'kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	03/24/2016	ND	368	92.0	400	8.33	
TPH 8015M	mg/	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/24/2016	ND	199	99.4	200	6.46	
DRO >C10-C28	2260	10.0	03/24/2016	ND	189	94.3	200	0.437	
EXT DRO >C28-C35	281	10.0	03/24/2016	ND					
Surrogate: 1-Chlorooctane	100 9	% 35-147	7						

Surrogate: 1-Chlorooctadecane 142 % 28-171

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Received: 03/23/2016 Sampling Date: 03/22/2016

Reported: 03/30/2016 Sampling Type: Soil

Project Name: GRAND BANKS ARU #14 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: LEA COUNTY, NM

Sample ID: AREA 2 - #1 E WALL (H600621-25)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	03/24/2016	ND	368	92.0	400	8.33	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	62.5	10.0	03/24/2016	ND	189	94.4	200	1.39	
DRO >C10-C28	4130	10.0	03/24/2016	ND	185	92.3	200	1.14	
EXT DRO >C28-C35	558	10.0	03/24/2016	ND					
Surrogate: 1-Chlorooctane	95.7	% 35-147	7						

Surrogate: 1-Chlorooctadecane 128 % 28-171

Sample ID: AREA 2 - #2 FLOOR (H600621-26)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	03/24/2016	ND	368	92.0	400	8.33	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	31.9	10.0	03/24/2016	ND	189	94.4	200	1.39	
DRO >C10-C28	1340	10.0	03/24/2016	ND	185	92.3	200	1.14	
EXT DRO >C28-C35	194	10.0	03/24/2016	ND					
Surrogate: 1-Chlorooctane	106	% 35-147	,						

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Surrogate: 1-Chlorooctadecane

101 %

28-171



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Received: 03/23/2016 Sampling Date: 03/22/2016

Reported: 03/30/2016 Sampling Type: Soil

Project Name: GRAND BANKS ARU #14 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: LEA COUNTY, NM

Sample ID: AREA 3 - W WALL (H600621-27)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/24/2016	ND	368	92.0	400	8.33	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/24/2016	ND	189	94.4	200	1.39	
DRO >C10-C28	406	10.0	03/24/2016	ND	185	92.3	200	1.14	
EXT DRO >C28-C35	84.7	10.0	03/24/2016	ND					
Surrogate: 1-Chlorooctane	70.5	% 35-147	,						
Surrogate: 1-Chlorooctadecane	70.7	% 28-171							

Sample ID: AREA 3 - #1 FLOOR (H600621-28)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/24/2016	ND	368	92.0	400	8.33	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	12.3	10.0	03/24/2016	ND	189	94.4	200	1.39	
DRO >C10-C28	2550	10.0	03/24/2016	ND	185	92.3	200	1.14	
EXT DRO >C28-C35	372	10.0	03/24/2016	ND					
Surrogate: 1-Chlorooctane	82.9	% 35-147							
Surrogate: 1-Chlorooctadecane	102	% 28-171							

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Received: 03/23/2016

Sampling Date: 03/22/2016 Reported: 03/30/2016 Sampling Type: Soil

Project Name: GRAND BANKS ARU #14 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: LEA COUNTY, NM

Sample ID: AREA 3 - #1 N WALL (H600621-29)

Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/24/2016	ND	368	92.0	400	8.33	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/24/2016	ND	189	94.4	200	1.39	
DRO >C10-C28	466	10.0	03/24/2016	ND	185	92.3	200	1.14	
EXT DRO >C28-C35	127	10.0	03/24/2016	ND					
Surrogate: 1-Chlorooctane	90.6	% 35-147	,						
Surrogate: 1-Chlorooctadecane	96.8	% 28-171							

Sample ID: AREA 3 - #1 S WALL (H600621-30)

Chloride, SM4500CI-B	mg/l	(g	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/24/2016	ND	368	92.0	400	8.33	
TPH 8015M	mg/l	кg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/24/2016	ND	189	94.4	200	1.39	
DRO >C10-C28	343	10.0	03/24/2016	ND	185	92.3	200	1.14	
EXT DRO >C28-C35	63.1	10.0	03/24/2016	ND					
Surrogate: 1-Chlorooctane	89.8 %	6 35-147							
Surrogate: 1-Chlorooctadecane	91.2%	6 28-171							

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Received: 03/23/2016 Reported: 03/30/2016

Project Name: GRAND BANKS ARU #14

Project Number: NONE GIVEN Project Location: LEA COUNTY, NM Sampling Date: 03/22/2016

Sampling Type: Soil

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

Sample ID: AREA 3 - #2 FLOOR (H600621-31)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	03/24/2016	ND	2.00	99.9	2.00	3.95	
Toluene*	<1.00	1.00	03/24/2016	ND	1.93	96.5	2.00	4.58	
Ethylbenzene*	<1.00	1.00	03/24/2016	ND	1.71	85.6	2.00	5.45	
Total Xylenes*	<3.00	3.00	03/24/2016	ND	5.26	87.7	6.00	5.58	
Total BTEX	<6.00	6.00	03/24/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 73.6-14	10						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	03/24/2016	ND	368	92.0	400	8.33	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	103	10.0	03/24/2016	ND	189	94.4	200	1.39	
DRO >C10-C28	2530	10.0	03/24/2016	ND	185	92.3	200	1.14	
EXT DRO >C28-C35	301	10.0	03/24/2016	ND					
Surrogate: 1-Chlorooctane	110	% 35-147	7						
Surrogate: 1-Chlorooctadecane	108	% 28-171	1						

Surrogate: 1-Chlorooctadecane 108 % 28-171

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Received: 03/23/2016 Sampling Date: 03/22/2016

Reported: 03/30/2016 Sampling Type: Soil

Project Name: GRAND BANKS ARU #14 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: LEA COUNTY, NM

Sample ID: AREA 3 - #2 N WALL (H600621-32)

Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/24/2016	ND	368	92.0	400	8.33	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/24/2016	ND	189	94.4	200	1.39	
DRO >C10-C28	884	10.0	03/24/2016	ND	185	92.3	200	1.14	
EXT DRO >C28-C35	141	10.0	03/24/2016	ND					
Surrogate: 1-Chlorooctane	95.8	% 35-147	,						
Surrogate: 1-Chlorooctadecane	105 9	% 28-171							

Sample ID: AREA 3 - #2 S WALL (H600621-33)

Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/24/2016	ND	368	92.0	400	8.33	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/24/2016	ND	189	94.4	200	1.39	
DRO >C10-C28	337	10.0	03/24/2016	ND	185	92.3	200	1.14	
EXT DRO >C28-C35	65.9	10.0	03/24/2016	ND					
Surrogate: 1-Chlorooctane	87.1	% 35-147	,						
Surrogate: 1-Chlorooctadecane	90.5	% 28-171							

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Received: 03/23/2016 Sampling Date: 03/22/2016

Reported: 03/30/2016 Sampling Type: Soil

Project Name: GRAND BANKS ARU #14 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: LEA COUNTY, NM

Sample ID: AREA 3 - #3 FLOOR (H600621-34)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	03/24/2016	ND	368	92.0	400	8.33	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	118	10.0	03/24/2016	ND	189	94.4	200	1.39	
DRO >C10-C28	3840	10.0	03/24/2016	ND	185	92.3	200	1.14	
EXT DRO >C28-C35	442	10.0	03/24/2016	ND					
Surrogate: 1-Chlorooctane	118	% 35-147	7						

Surrogate: 1-Chlorooctadecane 116 % 28-171

Sample ID: AREA 3 - #3 N WALL (H600621-35)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	03/24/2016	ND	368	92.0	400	8.33	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/24/2016	ND	189	94.4	200	1.39	
DRO >C10-C28	2080	10.0	03/24/2016	ND	185	92.3	200	1.14	
EXT DRO >C28-C35	337	10.0	03/24/2016	ND					
Surrogate: 1-Chlorooctane	155	% 35-147							
Surrogate: 1-Chlorooctadecane	165	% 28-171							

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Received: 03/23/2016 Sampling Date: 03/22/2016

Reported: 03/30/2016 Sampling Type: Soil

Project Name: GRAND BANKS ARU #14 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: LEA COUNTY, NM

Sample ID: AREA 3 - #3 S WALL (H600621-36)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/24/2016	ND	368	92.0	400	8.33	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/24/2016	ND	194	96.8	200	2.99	
DRO >C10-C28	172	10.0	03/24/2016	ND	200	99.8	200	17.4	QR-03
EXT DRO >C28-C35	18.3	10.0	03/24/2016	ND					
Surrogate: 1-Chlorooctane	96.4	% 35-147	,						
Surrogate: 1-Chlorooctadecane	105	% 28-171							

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PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Notes and Definitions

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 if QC acceptance limits due to matrix interference. QC batch

accepted based on LCS and/or LCSD recovery and/or RPD values.

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC

batch were accepted based on percent recoveries and completeness of QC data.

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

recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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ARDINAL LABORATORIES

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(50	505) 393-2326 FAX (505) 393-2416	05) 393-24/6	(323) 013-1001 170 (323)010 1020	WY (252)012-10	000		١	1		ANA	ANALYSIS	REQUEST	
Company Name: Gr	Grand Banks			18	BIEF 10	-	1	1	1				
	Robbie Runnels			P.O. #:					_	,			
				Company: Basin Environ.	in Environ					ns			
City:	s	State: Zip:		Attn:						nic			
Phone #:	Fa	Fax #:		Address:		_	1		1	/A			
Project #: Grand Banks ARU #14		Project Owner:		City:		es		_	_	ns		_	
Project Name: ARU #14				State: Z	Zip:	ide)15	EX	TF	tio		_	
Project Location: Lea County	ea County			Phone #:		ori	_	_	_	a	D		
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Sampler Name: Bill Wooley	Wooley		-	DDECEDY	SAMPI ING		_	_	_	e			
FOR LAB USE ONLY		MP.	MAIKIX	TRESERV.	ON THE CHANGE		_		Т	olet			
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Jody V	Jody Walters	10:35	Dan o	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	ED BY:	pill@basilicity.com			2				
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Sampler - UPS - Bus - Other:	Bus - Other:	Tit	No D No	No CA			1		١				

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101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

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City:		State:	Zip:		At	Attn:				_		-	nio	_				
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Phone #:	Daabe ABIT#14	Project Owner:			C:	City:				M		Н	ıs/	_				
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No No

pm@basinenv.com

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

Relinquished By:

Jody Walters

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

Bill Wooley

Time: 3/23/16

Jody Walters

Fax Result: REMARKS:

email results

pm@basinenv.com

Jody Walters

Company Name: Cond Books	BILL TO	ANALTSIS NEGOCO:
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Project Maliager Robbie Runnels	Boois Environ	s
Address:	Company: Basin Environ.	on
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Don'to ABIL #14 Project Owner:	City:	Н
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Relinquished By:

Bill Wooley

3/23/16 Time:

Jody Walters

Phone Result:
Fax Result:
REMARKS:

☐ Yes

No No

Add'I Phone #:

email results

pm@basinenv.com

Received By:

Jody Walters



March 30, 2016

ROBBIE RUNNELS

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: GRAND BANKS ARU #14

Enclosed are the results of analyses for samples received by the laboratory on 03/24/16 11:47.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Basin Environmental Service ROBBIE RUNNELS P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received: 03/24/2016 Sampling Date: 03/24/2016

Reported: 03/30/2016 Sampling Type: Soil

Project Name: GRAND BANKS ARU #14 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: LEA COUNTY, NM

Sample ID: AREA 1 - #1 FLOOR (H600640-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/29/2016	ND	2.07	104	2.00	5.25	
Toluene*	<0.050	0.050	03/29/2016	ND	1.96	97.8	2.00	7.05	
Ethylbenzene*	<0.050	0.050	03/29/2016	ND	1.72	85.9	2.00	8.63	
Total Xylenes*	<0.150	0.150	03/29/2016	ND	5.28	87.9	6.00	8.62	
Total BTEX	<0.300	0.300	03/29/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 %	% 73.6-14	0						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	03/28/2016	ND	416	104	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/28/2016	ND	179	89.3	200	3.87	
DRO >C10-C28	485	10.0	03/28/2016	ND	160	79.9	200	4.90	
EXT DRO >C28-C35	49.9	10.0	03/28/2016	ND					
Surrogate: 1-Chlorooctane	82.8	% 35-147	7						
Surrogate: 1-Chlorooctadecane	87.4	% 28-171							

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Basin Environmental Service ROBBIE RUNNELS P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received: 03/24/2016 Sampling Date: 03/24/2016

Reported: 03/30/2016 Sampling Type: Soil

Project Name: GRAND BANKS ARU #14 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: LEA COUNTY, NM

Sample ID: AREA 1 - #1 W WALL (H600640-02)

Chloride, SM4500Cl-B	mg/	/kg	Analyze	ed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/28/2016	ND	416	104	400	3.92	
TPH 8015M	mg/	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/28/2016	ND	179	89.3	200	3.87	
DRO >C10-C28	98.4	10.0	03/28/2016	ND	160	79.9	200	4.90	
EXT DRO >C28-C35	<10.0	10.0	03/28/2016	ND					
Surrogate: 1-Chlorooctane	94.3	% 35-147	7						
Surrogate: 1-Chlorooctadecane	106 9	% 28-171	,						

Sample ID: AREA 1 - #1 E WALL (H600640-03)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/28/2016	ND	416	104	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/28/2016	ND	179	89.3	200	3.87	
DRO >C10-C28	373	10.0	03/28/2016	ND	160	79.9	200	4.90	
EXT DRO >C28-C35	41.9	10.0	03/28/2016	ND					
Surrogate: 1-Chlorooctane	88.5	% 35-147							
Surrogate: 1-Chlorooctadecane	100	% 28-171							

Cardinal Laboratories *=Accredited Analyte

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Basin Environmental Service **ROBBIE RUNNELS** P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received: 03/24/2016 Sampling Date: 03/24/2016 Reported: 03/30/2016 Sampling Type: Soil

Project Name: GRAND BANKS ARU #14 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: LEA COUNTY, NM

Sample ID: AREA 1 - #2 FLOOR (H600640-04)

BTEX 8021B	mg/	/ka	Δnalvze	d By: MS					
51EX 60215	g/	- Kg	Anaryze	a by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	03/29/2016	ND	2.07	104	2.00	5.25	
Toluene*	<0.100	0.100	03/29/2016	ND	1.96	97.8	2.00	7.05	
Ethylbenzene*	0.123	0.100	03/29/2016	ND	1.72	85.9	2.00	8.63	
Total Xylenes*	2.07	0.300	03/29/2016	ND	5.28	87.9	6.00	8.62	
Total BTEX	2.19	0.600	03/29/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1390	16.0	03/28/2016	ND	416	104	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	153	10.0	03/28/2016	ND	179	89.3	200	3.87	
DRO >C10-C28	4300	10.0	03/28/2016	ND	160	79.9	200	4.90	
EXT DRO >C28-C35	560	10.0	03/28/2016	ND					
Surrogate: 1-Chlorooctane	109 9	% 35-147	7						
Surrogate: 1-Chlorooctadecane	135 9	% 28-171							

Cardinal Laboratories *=Accredited Analyte

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Basin Environmental Service ROBBIE RUNNELS P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received: 03/24/2016

 Received:
 03/24/2016
 Sampling Date:
 03/24/2016

 Reported:
 03/30/2016
 Sampling Type:
 Soil

Project Name: GRAND BANKS ARU #14 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: LEA COUNTY, NM

Sample ID: AREA 1 - #2 W WALL (H600640-05)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	03/28/2016	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	69.9	10.0	03/28/2016	ND	179	89.3	200	3.87	
DRO >C10-C28	1400	10.0	03/28/2016	ND	160	79.9	200	4.90	
EXT DRO >C28-C35	135	10.0	03/28/2016	ND					
Surrogate: 1-Chlorooctane	98.4	% 35-147							
Surrogate: 1-Chlorooctadecane	101	% 28-171							

Sample ID: AREA 1 - #2 E WALL (H600640-06)

Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	03/28/2016	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	12.7	10.0	03/28/2016	ND	179	89.3	200	3.87	
DRO >C10-C28	2240	10.0	03/28/2016	ND	160	79.9	200	4.90	
EXT DRO >C28-C35	302	10.0	03/28/2016	ND					
Surrogate: 1-Chlorooctane	87.3 9	% 35-147							
Surrogate: 1-Chlorooctadecane	114 %	6 28-171							

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Basin Environmental Service ROBBIE RUNNELS P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 03/24/2016 Sampling Date: 03/24/2016

Reported: 03/30/2016 Sampling Type: Soil

Project Name: GRAND BANKS ARU #14 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: LEA COUNTY, NM

Sample ID: AREA 1 - S WALL (H600640-07)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	03/28/2016	ND	416	104	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/28/2016	ND	179	89.3	200	3.87	
DRO >C10-C28	181	10.0	03/28/2016	ND	160	79.9	200	4.90	
EXT DRO >C28-C35	31.8	10.0	03/28/2016	ND					
Surrogate: 1-Chlorooctane	72.1	% 35-147	7						
Surrogate: 1-Chlorooctadecane	78.6	% 28-171	,						

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Notes and Definitions

QR-03 The RPD value for the sample duplicate or MS/MSD was outside if 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

ecovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Freene

	P.O. #:	Broinet Manager: D. L. D. Brook
		Company Name: Grand Banks
ANALYSIS RE	BILL 76	None:
	2111 Beechwood, Abilene, IX 79603 (325) 673-7001 FAX (325)673-7020	101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, 1X 79603
		ARDINAL LABORATORIES

	(505) 393-2326 FAX (505) 393-2476	(505) 393-2	ı	(325) 6/3-7001 FAX (323)013-1020	000	22.	١	١		ANA	ANALYSIS	-	REQUEST	_			
Company Name:	Grand Banks			100	BIEF 10	-	1	1	1					4	\dashv	-	
	Robbie Runnels			P.O. #:			_			,			_		_	_	_
				Company: Basin Environ.	sin Enviro	,	-			ns				_	_	_	_
City:		State:	Zip:	Attn:						nic			_	_			
Phone #:		Fax #:		Address:			1	+							_	+	4
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Sampler Name: Bill Wooley	III VVOOIEY		MATRIX	PRESERV.	SAMPLING		-	7 1	·e	-					_		
FOR LAB USE ONLY			IP.		0000		TF	11	Т	_						1	_
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PLEASE NOTE: Liability and analyses. All claims including	Damages. Cardinal's liability and clie those for negligence and any other dinal be liable for incidental or conse	ent's exclusive remedy bause whatsoever shall quental damages, inclu	PLEASE NOTE: Liability and Damages, Cardinat's liability and clerifs exclusive tempory or any personners in a series of the supplicable and the supplicable of the supplicable and the supplicable of the cause whatever shall be deemed withher distance made in writing and received by Cardinal within 30 days after completion of the applicable. As a supplicable of the cause whatever shall be deemed without because made in writing and received by Cardinal within 30 days after completion of the applicable. The cause whatever have for the cause whatever the cause where the cause whatever the cause where the cause	ting and received by Cardinal w ptions, loss of use, or loss of pr	ithin 30 days after ofits incurred by cl	completion of the a lent, its subsidiaries sons or otherwise.	applicable										
affiliates or successors arising	arising out of or related to the performance	of services hereunder by Date:	Received By:	Common appoint any or a		Phone Result:	7.	□ Yes	No No	Ado	Add'l Phone #:	*					
D:II \	Bill Wooley	3/24/16 Time:	Jod.	Deno	2	REMARKS:	-	9		2							

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

to#S#

Sampler - UPS - Bus - Other:

Relinquished By:

Date: 3-24+16

Received By:

Time://47

Sample Condition
Cool Intact
Cool Ares
Pes
No No

Bill Wooley

Time:

email results

pm@basinenv.com



April 11, 2016

ROBBIE RUNNELS

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: GRAND BANKS ARU #14

Enclosed are the results of analyses for samples received by the laboratory on 04/08/16 8:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Basin Environmental Service ROBBIE RUNNELS P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received: 04/08/2016 Sampling Date: 04/07/2016

Reported: 04/11/2016 Sampling Type: Soil

Project Name: GRAND BANKS ARU #14 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: LEA COUNTY, NM

Sample ID: AREA 1 - SP #2 - FLOOR @ 2' (H600764-01)

TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/08/2016	ND	164	82.0	200	17.7	
DRO >C10-C28	421	10.0	04/08/2016	ND	166	83.0	200	6.94	
Surrogate: 1-Chlorooctane	105	% 35-147	7						
Surrogate: 1-Chlorooctadecane	113	% 28-171	,						

Sample ID: AREA 5 - SP #1 - FLOOR @ 2' (H600764-02)

TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/08/2016	ND	164	82.0	200	17.7	
DRO >C10-C28	<10.0	10.0	04/08/2016	ND	166	83.0	200	6.94	
Surrogate: 1-Chlorooctane	93.6	% 35-147	,						
Surrogate: 1-Chlorooctadecane	110	% 28-171							

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Basin Environmental Service ROBBIE RUNNELS P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received: 04/08/2016 Sampling Date: 04/04/2016

Reported: 04/11/2016 Sampling Type: Soil

Project Name: GRAND BANKS ARU #14 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: LEA COUNTY, NM

Sample ID: AREA 5 - SP #2 - FLOOR @ 4' (H600764-03)

TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/08/2016	ND	164	82.0	200	17.7	
DRO >C10-C28	<10.0	10.0	04/08/2016	ND	166	83.0	200	6.94	
Surrogate: 1-Chlorooctane	91.7	% 35-147	7						
Surrogate: 1-Chlorooctadecane	112	% 28-171							

Sample ID: AREA 5 - SP #3 - FLOOR @ 6' (H600764-04)

TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/08/2016	ND	164	82.0	200	17.7	
DRO >C10-C28	<10.0	10.0	04/08/2016	ND	166	83.0	200	6.94	
Surrogate: 1-Chlorooctane	86.8	% 35-147	7						
Surrogate: 1-Chlorooctadecane	101	% 28-171							

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Basin Environmental Service ROBBIE RUNNELS P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received: 04/08/2016 Sampling Date: 04/05/2016

Reported: 04/11/2016 Sampling Type: Soil

Project Name: GRAND BANKS ARU #14 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: LEA COUNTY, NM

Sample ID: AREA 4 - SP #2 - FLOOR @ 2' (H600764-05)

TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/08/2016	ND	164	82.0	200	17.7	
DRO >C10-C28	<10.0	10.0	04/08/2016	ND	166	83.0	200	6.94	
Surrogate: 1-Chlorooctane	98.8	% 35-147	7						
Surrogate: 1-Chlorooctadecane	115 9	% 28-171	!						

Sample ID: AREA 3 - SP #3 - FLOOR @ 2' (H600764-06)

TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/08/2016	ND	164	82.0	200	17.7	
DRO >C10-C28	<10.0	10.0	04/08/2016	ND	166	83.0	200	6.94	
Surrogate: 1-Chlorooctane	98.4	% 35-147	7						
Surrogate: 1-Chlorooctadecane	115	% 28-171							

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Basin Environmental Service ROBBIE RUNNELS P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received: 04/08/2016 Sampling Date: 04/04/2016

Reported: 04/11/2016 Sampling Type: Soil

Project Name: GRAND BANKS ARU #14 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: LEA COUNTY, NM

Sample ID: AREA 5 - SP #1 - EAST WALL (H600764-07)

TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/08/2016	ND	164	82.0	200	17.7	
DRO >C10-C28	35.4	10.0	04/08/2016	ND	166	83.0	200	6.94	
Surrogate: 1-Chlorooctane	73.7	% 35-147	7						
Surrogate: 1-Chlorooctadecane	92.6	% 28-171	,						

Sample ID: AREA 5 - SP #2 - EAST WALL (H600764-08)

TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/08/2016	ND	164	82.0	200	17.7	
DRO >C10-C28	438	10.0	04/08/2016	ND	166	83.0	200	6.94	
Surrogate: 1-Chlorooctane	102	% 35-147	7						
Surrogate: 1-Chlorooctadecane	123	% 28-171	1						

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Basin Environmental Service ROBBIE RUNNELS P.O. Box 301 Lovington NM, 88260

(575) 396-1429

Received: 04/08/2016 Sampling Date: 04/05/2016

Reported: 04/11/2016 Sampling Type: Soil

Fax To:

Project Name: GRAND BANKS ARU #14 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: LEA COUNTY, NM

Sample ID: AREA 5 - SP #3 - EAST WALL (H600764-09)

TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/08/2016	ND	164	82.0	200	17.7	
DRO >C10-C28	22.1	10.0	04/08/2016	ND	166	83.0	200	6.94	
Surrogate: 1-Chlorooctane	94.1	% 35-147	,						
Surrogate: 1-Chlorooctadecane	112	% 28-171							

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Notes and Definitions

S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or

matrix interference's.

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC

batch were accepted based on percent recoveries and completeness of QC data.

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

recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

Cardinal Laboratories *=Accredited Analyte

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ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 01 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

		8 886	00	17			NAI VEI		
Company Name: Basin Env		BILLY TO	8	1		ļ	ANALISIS	מ אבעטבטי	
Project Manager: Robbie Runnels		P.O. #:							
Address:		Company: Basin					าร		
City: State:	Zip:	Attn:					ior		
Phone #: Fax #:		Address:					٩n		
Project #: Project Owner:		City:		s M	141	Н	s//		
Project Name: Grand Banks ARU #14		State: Zip:		des	_	ГР			
Project Location: Lea County		Phone #:			ſΕ	s	ati DS		
Sampler Name: Bill Wooley		Fax #:				xa			
FOR LABIUSE ONLY	MATRIX	PRESERV. S	SAMPLING		_	Ге	te		
Lab I.D. Wally Sample I.D.	TAINERS NDWATER EWATER	R: JASE: OOL		Т		7	Comple		
4600765	GROU	OTHER	DATE TIME				(
Area 1 - SP#2 - Floor@2'	1 \	<	4/7/16 10:30	_					
_	√ 1	< 4	4/4/16 10:30	~					
_	√ 1	< 4	4/4/16 15:00						
	√ 1	< 4	4/7/16 13:30	_					
S Area 4 - SP#2 - Floor@2'	V 1 V	< 4	4/5/16 11:45	_					
6 Area 3 - SP#3 - Floor@2'	\ 1 \ \	< 4	4/5/16 14:00	_					
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TCEASE MUTE: Liability and Jurinages cardinal is allowly and ceres accounter station you only vessionable processors. All claims including those for negligence and any other cause whateveer shall be deemed waived unless made in writing and received by Cardinal which 30 days after completion of the applicable services. All claims including and received by Cardinal which 30 days after completion of the applicable services. All claims including and received by Cardinal be labely for incidental or consequential damages, including without limitation, business inferruptions, loss of use, or loss of profits incurred by cleint, its subsidiaries,	deemed waived unless made in writing a without limitation, business interruption.	nd received by Cardinal within a loss of use, or loss of profits in	surroy to any variate any management of the second of the	the applicable laries.					

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

Corrected 3.7

3.60

Sample Condition
Cool Intact
Pes Pes
No No

CHECKED BY:

Time: Date: Relinquished By:

Relinquished By:

Bill Wooley

Time: 940

Received By:

Date:

Received By:

Phone Result: Fax Result: REMARKS:

☐ Yes

No No

Add'l Phone #: Add'l Fax #:

email results Basin PM's

4/8/16



April 29, 2016

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: GRAND BANKS ARU #14

Enclosed are the results of analyses for samples received by the laboratory on 04/28/16 8:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

 Received:
 04/28/2016
 Sampling Date:
 04/27/2016

 Reported:
 04/29/2016
 Sampling Type:
 Soil

Project Name: GRAND BANKS ARU #14 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: LEA COUNTY, NM

Sample ID: AREA #1 SP #1 EAST WALL (H600911-01)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/28/2016	ND	2.05	103	2.00	1.04	
Toluene*	<0.050	0.050	04/28/2016	ND	1.98	99.0	2.00	1.21	
Ethylbenzene*	<0.050	0.050	04/28/2016	ND	1.79	89.4	2.00	0.818	
Total Xylenes*	<0.150	0.150	04/28/2016	ND	5.55	92.6	6.00	0.0397	
Total BTEX	<0.300	0.300	04/28/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.3	% 73.6-14	0						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	04/28/2016	ND	400	100	400	7.69	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/28/2016	ND	203	102	200	5.92	
DRO >C10-C28	667	10.0	04/28/2016	ND	225	112	200	6.90	QM-07
EXT DRO >C28-C35	97.9	10.0	04/28/2016	ND					
Surrogate: 1-Chlorooctane	77.3	% 35-147	,						
Surrogate: 1-Chlorooctadecane	115 9	% 28-171							

Cardinal Laboratories *=Accredited Analyte

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04/27/2016



Analytical Results For:

Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 04/28/2016 Sampling Date:

Reported: 04/29/2016 Sampling Type: Soil

Project Name: GRAND BANKS ARU #14 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson
Project Location: LEA COUNTY, NM

Sample ID: AREA #1 SP #1 WEST WALL (H600911-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/28/2016	ND	2.05	103	2.00	1.04	
Toluene*	<0.050	0.050	04/28/2016	ND	1.98	99.0	2.00	1.21	
Ethylbenzene*	<0.050	0.050	04/28/2016	ND	1.79	89.4	2.00	0.818	
Total Xylenes*	<0.150	0.150	04/28/2016	ND	5.55	92.6	6.00	0.0397	
Total BTEX	<0.300	0.300	04/28/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.9	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	04/28/2016	ND	400	100	400	7.69	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/28/2016	ND	203	102	200	5.92	
DRO >C10-C28	271	10.0	04/28/2016	ND	225	112	200	6.90	
EXT DRO >C28-C35	48.5	10.0	04/28/2016	ND					
Surrogate: 1-Chlorooctane	77.8	% 35-147	7						
Surrogate: 1-Chlorooctadecane	92.4	% 28-171							

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04/27/2016



Analytical Results For:

Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 04/28/2016 Sampling Date:

Reported: 04/29/2016 Sampling Type: Soil

Project Name: GRAND BANKS ARU #14 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson
Project Location: LEA COUNTY, NM

Sample ID: AREA #2 SP #1 EAST WALL (H600911-03)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/28/2016	ND	2.05	103	2.00	1.04	
Toluene*	< 0.050	0.050	04/28/2016	ND	1.98	99.0	2.00	1.21	
Ethylbenzene*	< 0.050	0.050	04/28/2016	ND	1.79	89.4	2.00	0.818	
Total Xylenes*	<0.150	0.150	04/28/2016	ND	5.55	92.6	6.00	0.0397	
Total BTEX	<0.300	0.300	04/28/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.5 %	% 73.6-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	04/28/2016	ND	400	100	400	7.69	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/28/2016	ND	203	102	200	5.92	
DRO >C10-C28	345	10.0	04/28/2016	ND	225	112	200	6.90	
EXT DRO >C28-C35	69.0	10.0	04/28/2016	ND					
Surrogate: 1-Chlorooctane	79.6 %	35-147	,						

Surrogate: 1-Chlorooctadecane 100 % 28-171

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Fax To: (575) 396-1429

 Received:
 04/28/2016
 Sampling Date:
 04/27/2016

 Reported:
 04/29/2016
 Sampling Type:
 Soil

Project Name: GRAND BANKS ARU #14 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: LEA COUNTY, NM

Sample ID: AREA #2 SP #1 WEST WALL (H600911-04)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/28/2016	ND	2.05	103	2.00	1.04	
Toluene*	<0.050	0.050	04/28/2016	ND	1.98	99.0	2.00	1.21	
Ethylbenzene*	<0.050	0.050	04/28/2016	ND	1.79	89.4	2.00	0.818	
Total Xylenes*	<0.150	0.150	04/28/2016	ND	5.55	92.6	6.00	0.0397	
Total BTEX	<0.300	0.300	04/28/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.4	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	04/28/2016	ND	400	100	400	7.69	
TPH 8015M	mg/	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/28/2016	ND	203	102	200	5.92	

ND

ND

225

112

200

6.90

04/28/2016

04/28/2016

Surrogate: 1-Chlorooctane 81.8 % 35-147
Surrogate: 1-Chlorooctadecane 191 % 28-171

1740

338

10.0

10.0

DRO >C10-C28

EXT DRO > C28 - C35

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Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

 Received:
 04/28/2016
 Sampling Date:
 04/27/2016

 Reported:
 04/29/2016
 Sampling Type:
 Soil

Project Name: GRAND BANKS ARU #14 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: LEA COUNTY, NM

Sample ID: AREA #4 SP #1 EAST WALL (H600911-05)

BTEX 8021B	mg/	kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/28/2016	ND	2.05	103	2.00	1.04	
Toluene*	<0.050	0.050	04/28/2016	ND	1.98	99.0	2.00	1.21	
Ethylbenzene*	<0.050	0.050	04/28/2016	ND	1.79	89.4	2.00	0.818	
Total Xylenes*	<0.150	0.150	04/28/2016	ND	5.55	92.6	6.00	0.0397	
Total BTEX	<0.300	0.300	04/28/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.2 %	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	04/28/2016	ND	400	100	400	7.69	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/28/2016	ND	203	102	200	5.92	
DRO >C10-C28	581	10.0	04/28/2016	ND	225	112	200	6.90	
EXT DRO >C28-C35	122	10.0	04/28/2016	ND					
Surrogate: 1-Chlorooctane	82.5 %	% 35-147	7						

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Celey D. Keine

Surrogate: 1-Chlorooctadecane

120 %

28-171



Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 04/28/2016 Reported: 04/29/2016

Project Name: GRAND BANKS ARU #14
Project Number: NONE GIVEN

Project Location: LEA COUNTY, NM

Sampling Date: 04/27/2016

Sampling Type: Soil

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

Sample ID: AREA #4 SP #1 WEST WALL (H600911-06)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/28/2016	ND	2.05	103	2.00	1.04	
Toluene*	<0.050	0.050	04/28/2016	ND	1.98	99.0	2.00	1.21	
Ethylbenzene*	<0.050	0.050	04/28/2016	ND	1.79	89.4	2.00	0.818	
Total Xylenes*	<0.150	0.150	04/28/2016	ND	5.55	92.6	6.00	0.0397	
Total BTEX	<0.300	0.300	04/28/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.0	% 73.6-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/28/2016	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/28/2016	ND	203	102	200	5.92	
DRO >C10-C28	196	10.0	04/28/2016	ND	225	112	200	6.90	
EXT DRO >C28-C35	32.9	10.0	04/28/2016	ND					
Surrogate: 1-Chlorooctane	87.9	% 35-147	7						
Surrogate: 1-Chlorooctadecane	101	% 28-171							

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Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

 Received:
 04/28/2016
 Sampling Date:
 04/27/2016

 Reported:
 04/29/2016
 Sampling Type:
 Soil

Project Name: GRAND BANKS ARU #14 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: LEA COUNTY, NM

Sample ID: AREA #4 SP #2 EAST WALL (H600911-07)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/28/2016	ND	2.05	103	2.00	1.04	
Toluene*	< 0.050	0.050	04/28/2016	ND	1.98	99.0	2.00	1.21	
Ethylbenzene*	< 0.050	0.050	04/28/2016	ND	1.79	89.4	2.00	0.818	
Total Xylenes*	0.473	0.150	04/28/2016	ND	5.55	92.6	6.00	0.0397	
Total BTEX	0.473	0.300	04/28/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.8 9	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	04/28/2016	ND	400	100	400	7.69	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	17.0	10.0	04/28/2016	ND	203	102	200	5.92	
DRO >C10-C28	1940	10.0	04/28/2016	ND	225	112	200	6.90	
EXT DRO >C28-C35	333	10.0	04/28/2016	ND					
Surrogate: 1-Chlorooctane	91.2 9	% 35-147	7						

Surrogate: 1-Chlorooctadecane 197 % 28-171

Cardinal Laboratories *=Accredited Analyte

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Jodi Henson



Analytical Results For:

Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 04/28/2016 Sampling Date: 04/27/2016

Reported: 04/29/2016 Sampling Type: Soil
Project Name: GRAND BANKS ARU #14 Sampling Condition: Cool & Intact

Project Number: NONE GIVEN Sample Received By: Project Location: LEA COUNTY, NM

ma/ka

Sample ID: AREA #4 SP #2 WEST WALL (H600911-08)

RTFY 8021R

BIEX 8021B	mg/	кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/28/2016	ND	2.05	103	2.00	1.04	
Toluene*	<0.050	0.050	04/28/2016	ND	1.98	99.0	2.00	1.21	
Ethylbenzene*	<0.050	0.050	04/28/2016	ND	1.79	89.4	2.00	0.818	
Total Xylenes*	<0.150	0.150	04/28/2016	ND	5.55	92.6	6.00	0.0397	
Total BTEX	<0.300	0.300	04/28/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.9 %	% 73.6-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/28/2016	ND	400	100	400	7.69	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/28/2016	ND	203	102	200	5.92	
DRO >C10-C28	55.5	10.0	04/28/2016	ND	225	112	200	6.90	
EXT DRO >C28-C35	15.6	10.0	04/28/2016	ND					
Surrogate: 1-Chlorooctane	80.2 9	% 35-147	,						

Applyzod By: MC

Surrogate: 1-Chlorooctadecane 99.2 28-171

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Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 04/28/2016 Sampling Date: 04/27/2016

Reported: 04/29/2016 Sampling Type: Soil

Project Name: GRAND BANKS ARU #14 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson
Project Location: LEA COUNTY, NM

Sample ID: AREA #5 SP #1 EAST WALL (H600911-09)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/28/2016	ND	2.05	103	2.00	1.04	
Toluene*	<0.050	0.050	04/28/2016	ND	1.98	99.0	2.00	1.21	
Ethylbenzene*	<0.050	0.050	04/28/2016	ND	1.79	89.4	2.00	0.818	
Total Xylenes*	<0.150	0.150	04/28/2016	ND	5.55	92.6	6.00	0.0397	
Total BTEX	<0.300	0.300	04/28/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 73.6-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	04/28/2016	ND	400	100	400	7.69	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/28/2016	ND	203	102	200	5.92	
DRO >C10-C28	19.4	10.0	04/28/2016	ND	225	112	200	6.90	
EXT DRO >C28-C35	11.1	10.0	04/28/2016	ND					
Surrogate: 1-Chlorooctane	75.2	% 35-147	,						
Surrogate: 1-Chlorooctadecane	87.9	% 28-171							

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Fax To: (575) 396-1429

Received: 04/28/2016 Sampling Date: 04/27/2016

Reported: 04/29/2016 Sampling Type: Soil

Project Name: GRAND BANKS ARU #14 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson
Project Location: LEA COUNTY, NM

Sample ID: AREA #5 SP #1 WEST WALL (H600911-10)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/28/2016	ND	2.05	103	2.00	1.04	
Toluene*	<0.050	0.050	04/28/2016	ND	1.98	99.0	2.00	1.21	
Ethylbenzene*	<0.050	0.050	04/28/2016	ND	1.79	89.4	2.00	0.818	
Total Xylenes*	<0.150	0.150	04/28/2016	ND	5.55	92.6	6.00	0.0397	
Total BTEX	<0.300	0.300	04/28/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 %	6 73.6-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/28/2016	ND	400	100	400	7.69	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/28/2016	ND	203	102	200	5.92	
DRO >C10-C28	27.5	10.0	04/28/2016	ND	225	112	200	6.90	
EXT DRO >C28-C35	<10.0	10.0	04/28/2016	ND					
Surrogate: 1-Chlorooctane	75.2 %	% 35-147	7						
Surrogate: 1-Chlorooctadecane	90.69	% 28-171	,						

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Jodi Henson

Sample Received By:



Analytical Results For:

Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 04/28/2016 Sampling Date: 04/27/2016

Reported: 04/29/2016 Sampling Type: Soil Project Name: GRAND BANKS ARU #14 Sampling Condition: Cool & Intact

Project Number: NONE GIVEN Project Location: LEA COUNTY, NM

Sample ID: AREA #5 SP #2 EAST WALL (H600911-11)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/28/2016	ND	2.05	103	2.00	1.04	
Toluene*	<0.050	0.050	04/28/2016	ND	1.98	99.0	2.00	1.21	
Ethylbenzene*	<0.050	0.050	04/28/2016	ND	1.79	89.4	2.00	0.818	
Total Xylenes*	<0.150	0.150	04/28/2016	ND	5.55	92.6	6.00	0.0397	
Total BTEX	<0.300	0.300	04/28/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.3	% 73.6-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/28/2016	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/28/2016	ND	203	102	200	5.92	
DRO >C10-C28	528	10.0	04/28/2016	ND	225	112	200	6.90	
EXT DRO >C28-C35	74.0	10.0	04/28/2016	ND					
Surrogate: 1-Chlorooctane	90.5	% 35-147	7						

Surrogate: 1-Chlorooctadecane 126 % 28-171

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Fax To: (575) 396-1429

Received: 04/28/2016 Sampling Date: 04/27/2016

Reported: 04/29/2016 Sampling Type: Soil

Project Name: GRAND BANKS ARU #14 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: LEA COUNTY, NM

Sample ID: AREA #5 SP #2 WEST WALL (H600911-12)

BTEX 8021B	mg/kg		Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/28/2016	ND	2.05	103	2.00	1.04	
Toluene*	<0.050	0.050	04/28/2016	ND	1.98	99.0	2.00	1.21	
Ethylbenzene*	<0.050	0.050	04/28/2016	ND	1.79	89.4	2.00	0.818	
Total Xylenes*	<0.150	0.150	04/28/2016	ND	5.55	92.6	6.00	0.0397	
Total BTEX	<0.300	0.300	04/28/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.7	% 73.6-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/28/2016	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/28/2016	ND	203	102	200	5.92	
DRO >C10-C28	83.2	10.0	04/28/2016	ND	225	112	200	6.90	
EXT DRO >C28-C35	<10.0	10.0	04/28/2016	ND					
Surrogate: 1-Chlorooctane	77.5	% 35-147	7						
Surrogate: 1-Chlorooctadecane	88.3	% 28-171							

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Fax To: (575) 396-1429

Received: 04/28/2016 Sampling Date: 04/27/2016 Reported: 04/29/2016 Sampling Type: Soil

Project Name: GRAND BANKS ARU #14 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: LEA COUNTY, NM

Sample ID: AREA #5 SP #3 EAST WALL (H600911-13)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/28/2016	ND	2.05	103	2.00	1.04	
Toluene*	<0.050	0.050	04/28/2016	ND	1.98	99.0	2.00	1.21	
Ethylbenzene*	<0.050	0.050	04/28/2016	ND	1.79	89.4	2.00	0.818	
Total Xylenes*	<0.150	0.150	04/28/2016	ND	5.55	92.6	6.00	0.0397	
Total BTEX	<0.300	0.300	04/28/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.7	% 73.6-14	0						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/28/2016	ND	400	100	400	7.69	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/28/2016	ND	203	102	200	5.92	
DRO >C10-C28	84.6	10.0	04/28/2016	ND	225	112	200	6.90	
EXT DRO >C28-C35	12.8	10.0	04/28/2016	ND					
Surrogate: 1-Chlorooctane	77.5	% 35-147	7						
G	00.6	0/ 20.15							

Surrogate: 1-Chlorooctadecane 89.6 % 28-171

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Fax To: (575) 396-1429

Received: 04/28/2016 Sampling Date: 04/27/2016

Reported: 04/29/2016 Sampling Type: Soil

Project Name: GRAND BANKS ARU #14 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson
Project Location: LEA COUNTY, NM

Sample ID: AREA #5 SP #3 WEST WALL (H600911-14)

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	04/28/2016	ND	2.05	103	2.00	1.04	
Toluene*	<0.050	0.050	04/28/2016	ND	1.98	99.0	2.00	1.21	
Ethylbenzene*	<0.050	0.050	04/28/2016	ND	1.79	89.4	2.00	0.818	
Total Xylenes*	<0.150	0.150	04/28/2016	ND	5.55	92.6	6.00	0.0397	
Total BTEX	<0.300	0.300	04/28/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.7	% 73.6-14	0						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/28/2016	ND	400	100	400	7.69	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/28/2016	ND	203	102	200	5.92	
DRO >C10-C28	13.7	10.0	04/28/2016	ND	225	112	200	6.90	
EXT DRO >C28-C35	<10.0	10.0	04/28/2016	ND					
Surrogate: 1-Chlorooctane	81.7	% 35-147	7						
Surrogate: 1-Chlorooctadecane	92.6	% 28-171	,						

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Sample Received By:

04/27/2016

Cool & Intact

Jodi Henson

Soil



Analytical Results For:

Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 04/28/2016 Sampling Date: Reported: 04/29/2016 Sampling Type:

mg/kg

Reported: 04/29/2016 Sampling Type:
Project Name: GRAND BANKS ARU #14 Sampling Condition:

Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sample ID: AREA #5 SP #4 EAST WALL (H600911-15)

BTEX 8021B

	****31	9							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/28/2016	ND	2.05	103	2.00	1.04	
Toluene*	<0.050	0.050	04/28/2016	ND	1.98	99.0	2.00	1.21	
Ethylbenzene*	<0.050	0.050	04/28/2016	ND	1.79	89.4	2.00	0.818	
Total Xylenes*	<0.150	0.150	04/28/2016	ND	5.55	92.6	6.00	0.0397	
Total BTEX	<0.300	0.300	04/28/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.6	% 73.6-14	0						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/28/2016	ND	400	100	400	7.69	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/28/2016	ND	203	102	200	5.92	
DRO >C10-C28	473	10.0	04/28/2016	ND	225	112	200	6.90	
EXT DRO >C28-C35	57.2	10.0	04/28/2016	ND					

Analyzed By: MS

Surrogate: 1-Chlorooctane 77.1 % 35-147
Surrogate: 1-Chlorooctadecane 103 % 28-171

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Fax To: (575) 396-1429

Received: 04/28/2016 Sampling Date: 04/27/2016 Reported: 04/29/2016 Sampling Type: Soil

Project Name: GRAND BANKS ARU #14 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: LEA COUNTY, NM

Sample ID: AREA #5 SP #4 WEST WALL (H600911-16)

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	04/29/2016	ND	2.02	101	2.00	0.375	
Toluene*	<0.050	0.050	04/29/2016	ND	1.95	97.3	2.00	0.137	
Ethylbenzene*	<0.050	0.050	04/29/2016	ND	1.74	87.0	2.00	1.37	
Total Xylenes*	<0.150	0.150	04/29/2016	ND	5.37	89.4	6.00	1.05	
Total BTEX	<0.300	0.300	04/29/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.6	% 73.6-14	10						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	04/28/2016	ND	400	100	400	7.69	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/29/2016	ND	197	98.3	200	1.25	
DRO >C10-C28	112	10.0	04/29/2016	ND	224	112	200	8.70	
EXT DRO >C28-C35	18.2	10.0	04/29/2016	ND					
Surrogate: 1-Chlorooctane	76.5	% 35-147	7						
G	01.6	0/ 20.15							

Surrogate: 1-Chlorooctadecane 91.6% 28-171

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Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

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

recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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Company Name:	Basin Environmental Service Technologies, LLC	nologies	LLC	()			81	BILL TO					ANALYSIS	S REQUEST	IESI	
Project Manager:					9.	P.O. #:	#									
Address: P.O.	P.O. Box 301				C	JEC	Company:	Basin Env	Env.							
City: Lovington	n State: NM		88	Zip : 88260	A	Attn:		Jody								
Phone #: (575	(575)396-2378 Fax #: (575)396-1429)396-14:	29		A	ddre	Address:	P.O. Box 301	301							
Project #:	Project Owner:	ner:			C	City:		Lovington)	3)				
Project Name:	Grand Banks	ARU-14	-	14	S	State:	N N	Zip: 8	88260	de	15M	21E				
Project Location:	Lea				P	Phone #:	e #:	(575) 396-2378	2378	lori	(80	(80				
Sampler Name:	Steve Taylor				77	Fax #:	_	575) 396-1429	429	Ch	РН	EX				
FOR LAB USE ONLY		P.		MATRIX	×	P	PRESERV.	SAMPLING	G		TI	ВТ				
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL	SLUDGE OTHER:	ACID/BASE:	ICE / COOL OTHER:	DATE	TIME							
-	Area #1 SP#1 Eastwall	9	1	×			×	4/27/2016	9:40	×	×	×				
2	Area #1 SP#1 Wesrwall	9	-	×		-	×	4/27/2016	9:45	×	×	×				
(H	Area#2 SP#1 Eastwall	9	_	×			×	4/27/2016	9:35	×	×	×				
4	Area#2 SP#1 Westwall	9	-	×			×	4/27/2016	9:30	×	×	×				
Cr.	Area#4 SP#1 Easrwall	9	_	×			×	4/27/2016	9:15	×	×	×				
6	Area#4 SP#1 Westwall	9	_	×			×	4/27/2016	9:10	×	×	×				
7	Area#4 SP#2 Eastwall	9	_	×		-	×	4/27/2016	9:25	×	×	×	-	-		
8	Area#4 SP#2 Westwall	9	7	×	İ	-	×	4/27/2016	9:20	×	×	×				
9	Area#5 SP#1 Eastwall	9		×		-	×	4/27/2016	8:30	×	×	×		-		
0	Area#5 SP#! Westwall	g	_	×		-	×	4/27/2016	8:35	×	×	×				

	Sample Condition CHECKEUST: Cool Intact (Initials) Geres Gres No	0.40	Sampler - UPS - Bus - Other:
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REMARKS:	Wordin hallo-	Time: 7,'00	Who Ilk
Fax Result: ☐ Yes ☐ No Add'l Fax #:		1/86/1	emidusied by.
Phone Result: Yes No Add Phone #:	Received By:	Date:///	alinguished By-

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Company Name:	Basin Environmental Service Technologies, LLC	hnologie	S, L	5								BI	BILL TO					ANALYSIS		REQUEST		
	Ben Arguijo								9	P.O. #:	"			_		_						
Address: P.O. Box 301	× 301								C	ğ	Company:		Basin Env.			_	_					
City: Lovington	State: NM		Zip: 88260	288	260				D	Attn:			Jody	_								
Phone #: (575)396-2378	6-2378 Fax #: (575)396-1429	75)396-1	429						>	Address:	SS		P.O. Box 301	-		_	_					
Project #:	Project Owner:	wner:							C	City:		1	Lovington		1)	_	В)					
Project Name: Gra	Grand Banks ARU-14								S	State:	100	×	Zip: 88260	de	15N	_	211					
Project Location:	Lea								ס	Phone #:	#		(575) 396-2378	lori		-	(8)					
Sampler Name: Steve Taylor	ve Taylor								77	Fax #:			575) 396-1429	Ch	_		ΓE					
FOR LAB USE ONLY			•	_	-	3	MATRIX	×		P	RES	PRESERV	SAMPLING	-	т	_	В					
Lab I.D.	Sample I.D.	CORAR OR COME	(G)RAB OR (C)OMF # CONTAINERS	M. T.	GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE TIME	m								
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603

Company Name: Project Manager:	(305) 393-2326 FAX (305) 393-2476 Basin Env Robbie Runnels	3-24/6 (323) 6/3-/00/	P.O. #:			\dashv	$\dashv 1$		P	ANALY	ANALYSIS F	ANALYSIS REQUEST
Address:			Company: Basin		_	_			22	ns	ns	ns
City:	State:	Zip:	Attn:		_					nio	nio	nio
Phone #:	Fax #:		Address:			,			۸	An	Ar	Ar
Project #:	Project Owner:	vner:	City:		_	IVI	11	п	-1	ıs/	ıs/	ns/.
ame:	Grand Banks ARU #14		State: Zip:	-1-	de:			I.E				
roject Locatio	Project Location: Lea County		Phone #:		_	TE	_	15	-4		DS	
Sampler Name: Bill Wooley	: Bill Wooley		1			_	_	Xo	0			
FOR LAB USE ONLY		P. MATRIX	PRESERV.	SAMPLING (TPI		Te	Te	- 4-	ete	ete	ete
Lab I.D.	Sample I.D.	G)RAB)OR (C)OMF # CONTAINERS GROUNDWATER WASTEWATER SOIL	SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	TIME	-				0 1	Comple	Comple	Comple
7	Area 5 - SP#1 - East Wall	1			_		+	1		-		
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٩	Area 5 - SP#3 - East Wall		4/5/16	08:30		`						
EASE NOTE: Liability Nyses. All claims inch	PLEASE NOTE: Lability and Damages. Cardinat's liability and client's exclusive remedy for any claim arising whether based in contract or lort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever basel be deemed valved unless made in writing and received by Cardinat within 30 days after competition of the applicable analyses. All claims including those for negligence and any other cause whatsoever basel to exercise in writing and received by Cardinat within 30 days after competition of the applicable	dy for any claim arising whether based in the latest and a second will be described with the second and the second and the second will be described by the second and the s	contract or tort, shall be limited to the arrour life grant growther by Contrats within 30 days from the structure.	t paid by the client for the safter completion of the a by client, its subsidiaries	pplicable		-					
service. In no event shall Care affiliates or successors arising Relinquished By:	Relinquished By: Bill Wooley Time; United Stands of Contequents and Contequ	der by Cardinal, regardless of whether such	takini is based upon any of the above stated reasons or otherwise Phone Resilter Fax Results Fax Results Remarks	Phone Result: Fax Result: REMARKS:		□ Yes	N N		AA	Add'l Pho	Add'l Phone #: Add'l Fax #:	Add'l Phone #: Add'l Fax #:
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