1001 Noble Energy Way Houston, TX 77070 noble energy

Tel: 281.872.3100 www.nobleenergyinc.com

APPROVED By Olivia Yu at 8:16 am, Aug 28, 2018

NMOCD approves of the proposed remediation plan for 1RP-4825, with conditions. See email correspondence for stipulations.

August 16, 2018

Sent via e-mail to Olivia. Yu@state.nm.us

Ms. Olivia Yu Environmental Specialist New Mexico Oil Conservation Division – District 1 1625 N. French Drive Hobbs, NM 88240

RE: Revised Remediation Work Plan for Wyatt Phillips Tank Battery (1RP-4825)

Dear Ms. Yu,

Effective January 31, 2018, Southwest Royalties, Inc. was transferred from NBL Permian LLC (a subsidiary of Noble Energy, Inc.) to Desert Permian LLC. As part of the transfer agreement, Noble agreed to continue performing site delineation and remediation activities related to release site 1RP-4825. Therefore, Noble Energy, Inc. respectfully submits the enclosed Revised Remediation Work Plan for 1RP-4825.

Should you have any questions or concerns, please contact me at 281-874-6072 or jonathan.pennington@nblenergy.com.

Sincerely,

Jonathan Pennington Environmental Coordinator

Enclosure

Reference No. 11181319



August 16, 2018

Ms. Olivia Yu Environmental Specialist New Mexico Oil Conservation Division – District 1 1625 N. French Drive Hobbs, New Mexico 88240

Re: 2018 Scope of Work – Soil Remediation Activities Wyatt Phillips Tank Battery (1RP-4825) Unit Letter C, Sec. 34, T-17S, R-33E Lea County, New Mexico

Dear Ms. Yu:

1. Project Information

The Site is located in Unit C, Section 34, Township 17 South, Range 33 East, approximately 7.5 miles southeast of Maljamar, in Lea County, New Mexico. The Site coordinates are latitude 32.797030 N and longitude -103.652007 W. Figure 1 depicts the Site Location Map. On August 15, 2017, approximately 8 barrels of produced water was released as a result of a broken transfer line located adjacent to the Wyatt Phillips tank battery. Zero barrels of produced water were recovered. The release was reported to the New Mexico Oil Conservation Division (NMOCD) District 1 office in Hobbs, New Mexico using Form C-141 - Release Notification and Corrective Action and Remediation Permit (RP) Number 1RP-4825 was assigned. Southwest Royalties, Inc. was reported as the operator of the lease at the time of the release.

Assessment activities were conducted by Republic Backhoe Services (Republic) beginning on October 11, 2017. Two soil borings were advanced at the site to depths of 18 and 20 feet below ground surface (bgs) and soil samples were collected for laboratory analysis. A backhoe was utilized on October 13, 2017 to install test trenches for additional delineation sampling. Soil samples were analyzed for chloride, benzene, toluene, ethylbenzene, and xylenes (BTEX), and total petroleum hydrocarbons (TPH). The soil boring and trench sample data indicated chloride impacts above Recommended Remediation Action Levels (RRALs) extending from the surface to approximately 8 feet bgs.

A Remediation Work Plan was submitted to NMOCD by Noble on December 1, 2017 in addition to the Revised Release Characteristic Report prepared by Republic. NMOCD approved the Work Plan in an email dated December 22, 2017. NMOCD stated that delineation was considered complete with the following stipulations:

1. Based on the tabulated data provided, Sample C appears to be a borehole. Please verify and submit soil bore logs. *GHD understands that this stipulation was completed.*





- Samples at G-3 ft., H-surface, and I-2 ft. exceeds permissible levels of 600 mg/kg chlorides. Laterally extend the excavation until sidewalls are within permissible values. If samples from the western border of the proposed excavation are above permissible levels at the edge of the firewall, NMOCD must be informed in advance to determine whether an alternate plan is necessary.
- 3. All bottom and confirmation sidewall samples must be tested for BTEX, TPH extended, and chlorides. Confirmation sample locations should be no greater than 50 ft. apart.
- 4. In the remediation report, on an appropriately scaled map: 1) outline the release area; 2) annotate the depth of excavation and dimensions of the lined area; and 3) demarcate confirmation sample locations with GPS coordinates.

GHD's 2018 scope of work with proposed alternate approaches are detailed in the Work Plan below.

2. 2018 Scope of Work

Chloride impacted soil will be excavated and confirmation soil samples will be collected for laboratory analysis. Field screening of soils for chlorides will be performed in order to guide excavation activities. Subsequently, the excavation will be lined, backfilled with blended stockpiled soil from the excavation, graded and contoured to ensure proper surface area drainage, and the soil (off-pad areas) fertilized and re-seeded.

Field Program

The following outlines basic project details that will be completed by GHD and GHD subcontractors:

- Prior to mobilizing equipment to the Site, a New Mexico 811 utility notification will be made at least 48-hours prior to mobilization.
- If determined necessary, utilities in proximity to the proposed excavation area will be day-lighted via hydroexcavation prior to remedial excavation activities.
- Approximately 1,650 in-placed cubic yards (cy) of shallow subsurface soil will be excavated and stockpiled on-site (Figure 2). Impacted soil in the affected area will be excavated until field screening indicates that the soil is below the RRAL for chloride (600 mg/kg), or until a depth of 4 feet bgs is reached.
- Soils will be field screened for chloride during excavation activities by mixing soil samples with deionized water. The rinsate will be analyzed using Hach chloride test strips. If field screening indicates that soils are below regulatory levels, excavation will halt to minimize excavation of clean soil.
- Confirmation composite soil samples will be collected from the bottom and side walls at 50 foot intervals and submitted to Xenco Laboratories in Midland, Texas for analysis of chloride by EPA Method 300 only prior to installation of the liner. Soil samples were collected and analyzed for



BTEX via EPA Test Method 8021B and TPH by EPA Method 8015 Modified during the previous assessment and results indicated soil concentrations for these constituents were non-detect or well below the RRALs. Therefore, these analyses will not be performed for the confirmation samples.

- If impacts appear to extend past four feet bgs, excavation activities will halt, the sides of the
 excavation will be sloped, and a 20 mil polyethylene liner will be placed in the bottom of the
 excavation. Liner seams will be overlapped a minimum of 24 inches. Each liner will be placed
 without rips or tears.
- The western extent of the excavation will be limited by the tank battery fire wall. If chloride concentrations below 600 mg/kg are not obtained from the western excavation sidewall samples (a minimum 5 foot buffer from the fire wall will be retained), further investigation and excavation will be deferred until the facility is decommissioned.
- Final locations of confirmation samples and lateral extent of excavation will be demarcated with GPS coordinates and included in the remediation report.
- Stockpiled soil will be placed on plastic sheeting and will be blended on-site with clean soil to reduce chloride concentrations to below 600 mg/kg. Chloride field screening of the blended soil will be conducted to guide blending activities.
- The stockpiled blended soil will be re-sampled (one composite sample per 300 cubic yards) and submitted to Xenco Laboratories for analysis of chloride by EPA Method 300 to confirm chloride concentrations are below 600 mg/kg.
- Blended stockpiled soil with chloride concentrations 600 mg/kg or less will be used as backfill above the liner. GHD anticipates that sufficient clean soil is available on-site to meet these requirements.
- The excavated area will be fertilized and re-seeded with a Bureau of Land Management-approved seed mix.

Quality Assurance/ Quality Control

Confirmation soil sampling will be completed in accordance with our standard Quality Assurance/ Quality Control procedures designed to minimize cross-contamination between samples and to provide reliable laboratory results.

Reporting

A letter report summarizing remediation activities conducted at the site will be submitted. The letter report will include a Site description, project history, description of field events, a discussion of results, and recommendations (if any).

The report will include:



- A scaled Site plan showing the location of the excavation, confirmation sample collection points, and other Site features;
- Tabulation of field screening and laboratory analytical results; and
- Geotagged photographic documentation of field activities.

Quarterly Vegetation Monitoring

Following completion of soil remediation activities at the Site, and as required by the New Mexico State Land Office (NMSLO), GHD will conduct four quarterly vegetation monitoring visits to the Site. The status of vegetative growth within the remediated area will be documented with photographs and in field notes during each visit. A closure request letter report will be completed following one year of monitoring for submittal to NMSLO.

3. Work Plan Approval Request

GHD is prepared to initiate the scope of work immediately. If you have any questions or comments with regards to this work plan, please do not hesitate to contact our Houston office at (713) 734-3090. Your timely response to this correspondence is appreciated.

Sincerely,

GHD

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Scott Foord, P.G.

Project Manager

SF/sh/1

Encl.

Attachments: Figure 1- Site Location Map

Figure 2 – Soil Excavation Boundary Map

NMOCD Correspondence Email (December 22, 2017)

Spill Summary and Remediation Work Plan (December 1, 2017)

Kapy U. Pali

Raaj U. Patel, P.G.

Program Manager



CAD File: I:\CAD\Files\Eight Digit Job Numbers\1118---\11181319-Noble-Wyatt Phillips TB\Proposal\11181319-00(Proposal-01)GN-DL001_Wyatt Phillips TB.dwg







NOBLE PERMIAN, LLC LEA COUNTY, NEW MEXICO UNIT LETTER C, SEC. 34, T-17S, R-33E WYATT PHILLIPS TANK BATTERY RELEASE

SITE DETAILS MAP

CAD File: I:\CAD\Files\Eight Digit Job Numbers\1117----\11178685-Noble-Southwest Royalties Sites\Proposal\11178685-00(Proposal-01)GN-DL001_Wyatt Phillips TB.dwg



FIGURE 2

11178685-00 Aug 2, 2018

Mr. Pennington:

Notes:

- Based on the release location, there is a NMOSE well (L 04363) within 1 mile radius.
- The figure with the proposed excavation is mislabeled. The figure needs to be redrawn in order for the sample locations to be visible.

NMOCD will consider delineation complete for 1RP-4825 and approves of the proposed remediation with these stipulations:

- 1. Based on the tabulated data provided, Sample C appears to be a borehole. Please verify and submit soil bore logs.
- 2. Samples at G-3 ft., H-surface, and I-2 ft. exceeds permissible levels of 600 mg/kg chlorides. Laterally extend the excavation until sidewalls are within permissible values. If samples from the western border of the proposed excavation are above permissible levels at the edge of the firewall, NMOCD must be informed in advance to determine whether an alternative plan is necessary.
- 3. All bottom and confirmation sidewall samples must be tested for BTEX, TPH extended, and chlorides. Confirmation sample locations should be no greater than 50 ft. apart.
- 4. In the remediation report, on an appropriately scaled map: 1) outline the release area; 2) annotate the depth of excavation and dimensions of the lined area; and 3) demarcate confirmation sample locations with GPS coordinates.

Please confirm or inform if clarification is required.

Thanks,

Olivia Yu Environmental Specialist NMOCD, District I <u>Olivia.yu@state.nm.us</u> 575-393-6161 x113

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

Sent: Friday, December 1, 2017 6:34 AM
To: Yu, Olivia, EMNRD <Olivia.Yu@state.nm.us>
Cc: Al Garcia <Al.Garcia@nblenergy.com>
Subject: 1RP-4825 Release Characterization Report and Remediation Work Plan

Dear Ms. Yu,

Southwest Royalties, Inc. respectfully submits the attached Revised Release Characterization Report and Remediation Work Plan for release site 1RP-4825. Please contact me if you have any questions or concerns.

Jonathan Pennington Environmental Coordinator EHSR

1001 Noble Energy Way, Houston, TX 77070 Main: 281.872.3100 | Direct: 281.874.6072 | Cell: 832.427.7652 Jonathan.Pennington@nblenergy.com | www.nblenergy.com



1001 Noble Energy Way Houston, TX 77070

> Tel: 281.872.3100 nblenergy.com



southwest royalties, inc. a subsidiary of noble energy, inc.

December 1, 2017

NMOCD Olivia Yu, Environmental Specialist 1625 N. French Drive Hobbs, NM 88240

Dear Ms. Yu,

Southwest Royalties, Inc. respectfully submits the enclosed Release Characterization Report and Remediation Work Plan for release site 1RP-4825.

Should you have any questions or concerns, please contact me at 281-874-6072 or jonathan.pennington@nblenergy.com.

Sincerely,

Jonathan Pennington Environmental Coordinator Jonathan.Pennington@nblenergy.com

CC: Al Garcia, Noble Energy

:Enclosure

APPROVED By Olivia Yu at 12:46 pm, Dec 22, 2017

NMOCD approves of the delineation and proposed remediation for 1RP-4825. See email communication for stipulations.

Sent via email to Olivia. Yu@state.nm.us

REPUBLIC BACKHOE SERVICE LLC

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

December 1, 2017

Dear Olivia Yu,

Subject: Spill Summary and Remediation Work Plan

Location: Wyatt/Phillips Battery Company: Southwest Royalties Inc.

Southwest Royalties Inc. has contracted Republic Backhoe Service LLC ("Republic") to perform site assessment and remediation services at the above referenced location. The results of the spill summary and proposed remediation activities are outlined below.

Incident Date

August 15, 2017

Incident Description

On August 15, 2017 the pumper turned on the transfer pump at the Eilliams Battery then noticed the release at the 3-inch poly transfer line adjacent to the Wyatt Phillips Battery. The pumper then turned off the transfer pump and put a clamp on the transfer line. The produced water soaked into the ground before a vacuum truck could make it to the site to recover any fluids. Approximately 8 barrels of produced water were released. On August 16, 2017 a crew was called out to repair the transfer line. On October 2, 2017 Southwest Royalties Inc., replaced approximately 7,000 feet of transfer line from the Eilliams Battery to the injection well. The C-141 form was received by NMOCD District I on September 27, 2017 (See Appendix I).

Phone Number: (575) 631-0131

Background Information

The Wyatt Phillips battery is located approximately 9 miles west of Buckeye, New Mexico and 7.5 miles south east of Maljamar, NM. The legal location for the Battery is Unit C Section 34 Township 17 South and Range 33 East in Lea County, New Mexico. The spill site lies east of the Wyatt Phillips Battery location with the GPS Coordinates as follows: Latitude: 32.797030 North Longitude: -103.652007 West. (See Site Map attached in Appendix II).

The Wyatt Phillips Spill Site is located less than ½ mile east from the Mescalero Ridge (Caprock Escarpment). The soil in this area is made up of Kimbrough-Lea loamy soil. As per the New Mexico Bureau of Geology and Minerals Resources, the local surface is comprised of 5" to 24" loamy soil with hard caliche below the soil.

Watercourses in the area are dry except for infrequent flows in response to major precipitation events. According to the New Mexico Office of the State Engineer water well database there are no water wells within a mile radius. The same search illustrates that at a radius of 4,000 meters from the spill site the average depth to water is incorrectly 132 ft. The ground water data in Appendix III shows that the average depth to water is 132 feet but this is due to Water Well L-02687 having no depth to water value thus decreasing the average depth to water to 132 feet. When Water Well L-02687 (L-02687 is at a distance of 2.48 miles) is omitted from the average, the average depth to water at a radius of 4,000 meters from the spill site is 200 ft. Furthermore when the radius is decreased to 2 miles (3,219.5 meters) from the spill site the average depth to water increases to approximately 220 ft.

Regulatory Requirements

New Mexico Oil Conservation Division evaluates each release of produced water or oil according to the Recommended Remediation Action Levels (RRAL). NMOCD uses RRALs as a ranking system when evaluating each spill in terms of Depth to Groundwater, Distance to Surface Water, and Distance to Wellhead Protection Area.

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

Depth to ground water: >200' (50'-99')	0
Wellhead Protection Area: > 1000'	0
Distance to Surface Water Body: > 1000'	0

Actions Taken

On October 11, 2017 Republic began to delineate the Wyatt Phillips spill Site. Big Guns Drilling Inc was contracted to drill the bore holes. A total of two bore holes were drilled at the spill site. Borehole A was drilled to 20' and Borehole B was drilled to 18'. On October 13, 2017 a backhoe was used to dig trenches to finish delineating the site. All soil samples were collected by Republic Backhoe Service LLC personnel wearing clean nitrile groves. The soil samples were placed in laboratory provided sample containers and transported to Cardinal Labs in Hobbs, NM for analysis. The samples were analyzed per Method SM4500C1-B, BTEX 8021B, and TPH 8015M.

Laboratory Results

Sample	Date	Sample ID	Depth	Chlorides	BTEX	TPH
Date	Analyzed		(feet)	(mg/kg)	(mg/kg)	(mg/kg)
10/11/2017	10/19/2017	A-1	1	3920	<.300	<10.0
10/11/2017	10/19/2017	A-3	3	4320	<.300	<10.0
10/11/2017	10/19/2017	A-7	7	8530	<.300	<10.0
10/11/2017	10/19/2017	A-10	10	304	-	-
10/11/2017	10/19/2017	A-20	20	64	-	-
10/11/2017	10/19/2017	B-2	2	3160	<.300	<10.0
10/11/2017	10/19/2017	B-4	4	6880	<.300	<10.0
10/11/2017	10/19/2017	B-6	6	4160	-	-
10/11/2017	10/19/2017	B-8	8	64	-	-
10/11/2017	10/19/2017	B-18	18	32	-	-
10/11/2017	10/19/2017	C-6	6	2080	<.300	<10.0
10/11/2017	10/19/2017	C-8	8	1760	-	-
10/11/2017	10/19/2017	C-10	10	48	-	-
10/11/2017	10/19/2017	C-15	15	64	-	-
10/13/2017	10/23/2017	D-1	.25	320	<.300	22.6
10/13/2017	10/23/2017	D-2	2	304	<.300	<10.0
10/13/2017	10/23/2017	E-S	.25	32	<.300	<10.0
10/13/2017	10/23/2017	E-1	1	96	<.300	<10.0
10/13/2017	10/23/2017	F-S	.25	16	<.300	<10.0
10/13/2017	10/23/2017	F-1	1	112	<.300	<10.0
10/13/2017	10/23/2017	G-1	.25	416	<.300	<10.0
10/13/2017	10/23/2017	G-3	3	3600	<.300	<10.0
10/13/2017	10/23/2017	H-S	.25	1520	<.300	<10.0
10/13/2017	10/23/2017	H-1	1	384	<.300	<10.0
10/13/2017	10/23/2017	1-1	.25	576	<.300	<10.0
10/13/2017	10/23/2017	I-2	2	2160	<.300	<10.00
10/13/2017	10/23/2017	J-1	1	16	<.300	<10.0
10/13/2017	10/23/2017	J-2	2	16	<.300	<10.0
10/13/2017	10/23/2017	J-6	6	64	<.300	<10.0

See Appendix V for Site Sample Points.

Proposal

According to the groundwater data, the release poses little threat to groundwater contamination in the area. The depth to ground water in the area is greater than 200' bgs. The Site Delineation concluded that there are no issues with TPH or BTEX. Chloride contamination is the only issue at the site. Also, sample results indicate that chloride concentrations in soil are below NMOCD permissible levels at less than 10' bgs. Southwest Royalties, Inc. respectfully requests that NMOCD will consider the following remediation plan.

The portions of the site with chloride concentrations in excess of the NMOCD cleanup standard of 600 mg/kg chloride will be excavated to a depth of 4' (See Appendix VI for approximate excavation extents). Please note that the map in Appendix VI is an approximation of the excavation site. The horizontal extent to the North, East, and South of the spill will be determined during the excavation process at the site. The western extent of the excavation will terminate at the battery fire wall if chloride concentrations below 600 mg/kg are not observed east of the battery firewall. It would be unsafe to excavate west of the eastern firewall of the battery. The weight of the tanks at the battery, along with unpredictable rainfalls and wind, will increase the risk of cave-ins if excavation takes place within 10' of the tanks at the battery. After the spill site is excavated to a depth of 4', the excavated walls will be tested to insure horizontal delineation. The samples will be collected and taken to Cardinal Labs for confirmation. Then a 20 mil liner will be installed at 4' to prevent vertical migration of the contaminants that remain below the liner.

The excavated soil will be hauled to R360 disposal facility, an NMOCD approved disposal. All backfill material will be hauled in from a clean fill source.

NMOCD will be notified within 24 hours of all sampling.

Then the area will be seeded with Warm Season SSR Grass Seed Mix 350. Please see the Revegetation and weed management plan below.

Revegetation and Noxious Weed Management Plans

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

Seeding Rate/ acre: 20 lbs/acre

Timing of Dispersal: Late March 2018 (may change)

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

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

Noxious Weeds Control

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

- -Jointed Goatgrass
- -Hoary Cress
- -Cheat Grass
- -African Rue
- -Yellow Starthistle
- -Malta Starthistle
- -Purple Starthistle
- -Common Teasel
- -Camelthorn
- -Russian Knapweed

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

Eric Garcia Republic Backhoe Services LLC Appendix I C-141 Form

IJ S. First St., Artesia, NM 88210 istrict III O01 Cor istrict III O01 Cor istrict IV 1220 Sc	nis an nservi outh S	ew Mexico ad Natural Reso ation Division St. Francis Dr. NM 87505		Subm	it 1 Copy ac	Hevi to appropriate D condence with 19	Form C-141 sed April 3, 2017 istrict Office in 1.15.29 NMAC
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Name of Company Southwest Royalties, Inc.		ontact Jonathan			_		
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N/A Describe Cause of Problem and Remedial Action Taken.* Pumper to ransfer line adjacent to the Wyatt Philips bartery. The pumper turner soaked into the ground before a vacuum track could make it to the sit 03/16/17. Describe Area Affected and Cleanup Action Taken.* Preliminary estimates indicate that the affected area is approximately NMOCD Gnidelines and present a work plan to NMOCD for approvi (hereby certify that the information given above is true and complete regulations all operators are required to report and/or file certain relex public health or the environment. The acceptance of a C-141 report should their operations have failed to adequately investigate and remo or the environment. In addition, NMOCD acceptance of a C-141 report should their operations have failed to adequately investigate and remo or the environment. In addition, NMOCD acceptance of a C-141 report federal, state, or local laws and/or regulations. Signature: Jonathan Pennington Title: Environmental Coordinator: E-mail Address: Jonathan Pennington/winblenergy.com	10,700 10,700 al prior to the to the sase not by the 1 cdiate of and down	RECEI By Oliv m the transfer pump te transfer pump a cover any fluids A square feet. Sould to any remediation best of my knowle fifeations and perfi NMOCD marked a contamination that is not relieve the op OI pproved by Environ	ria Yu : op at the Ei al put a cla A crew was thwest Roy n work. edge and un form correct is "Final Re porte a thar porte of a L CONS antrental Sp 27/2011 wal:	Iliams has one on the called on adtress, for adtress for address f	thery and the transfer at to repart at to re	noticed the release line. The product in the 3-inch trans- aluate the site acco- suant to NMOCD cases which may leve the operator r, surface water, h ompliance with a DIVISION	se at the cod water effer line on cording to rules and endanger of hability curran health
N/A Describe Cause of Problem and Remedial Action Taken.* Pumper to ransfer line adjacent to the Wyatt Philips battery. The pumper turner soaked into the ground before a vacuum track could make it to the sit 8/16/17. Describe Area Affected and Cleanup Action Taken.* Preliminary estimates indicate that the affected area is approximately NMOCD Gnidelines and present a work plan to NMOCD for approvi (hereby certify that the information given above is true and complete regulations all operators are required to report and/or file certain relea public health or the environment. The acceptance of a C-141 report should their operations have failed to adequately investigate and remo or the environment. In addition, NMOCD acceptance of a C-141 report should their operations have failed to adequately investigate and remo or the environment. In addition, NMOCD acceptance of a C-141 report federal, state, or local have and/or regulations. Signature: Jonathan Pennington Title: Environmental Coordinator E-mail Address: Jonathan Pennington	10,700 10,700 al prior to the to the sase not by the 1 cdiate of and down	RECE By Oliv on the transfer pump a cover any fluids. A sover any	ria Yu : op at the Ei al put a cla A crew was thwest Roy n work. edge and un form correct is "Final Re porte a thar porte of a L CONS antrental Sp 27/2011 wal:	Iliams has one on the called on adtress, for adtress for address f	thery and the transfer at to repart at to re	noticed the release line. The product in the 3-inch trans- aluate the site accor- search which may ieve the operator e, surface water, h ompliance with a DIVISION DIVISION	se at the cod water effer line on cording to rules and endanger of hability curran health

Appendix II Site Map



Appendix III Groundwater Data



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

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a	(R=POD replaced, O=orphan C=the file	ned,								3=SW 4=SI					
water right file.)	closed)	DOD		((qua	rte	rs are	smalle	est to la	rgest) (N	IAD83 UTM in n	neters)	(In feet)		
		POD Sub-		0	Q	0								w	ater
POD Number	Code	basin	County	64	16	4			Rng	Х	Y	DistanceDept	1WellDepthV	Vater Co	lumn
<u>L 04363</u>		L	LE	1	2	3	35	17S	33E	627634	3628855* 🌍	1646	226	160	66
<u>L 03713</u>		L	LE	3	4	1	28	17S	33E	624391	3630617* 🌑	2045	210		
L 14159 POD1		L	LE	3	1	3	28	17S	33E	624030	3630169 🌍	2206	298	165	133
<u>L 05055</u>		L	LE	3	3	4	35	17S	33E	628042	3628259* 🌍	2304	233	150	83
<u>L 05096</u>		L	LE	3	3	4	35	17S	33E	628042	3628259* 🌍	2304	233	150	83
<u>L 04649</u>		L	LE	1	1	3	03	18S	33E	625644	3627213* 🌍	2427	100	45	55
<u>L 03133</u>		L	LE	3	1	3	23	17S	33E	627188	3631868* 🌍	2504	230		
L 13049 POD1		L	LE	2	2	2	29	17S	33E	623782	3631207* 🌍	2876	244	204	40
CP 00758 POD1		CP	LE			3	04	18S	33E	624345	3626886* 🌍	3251	250		
CP 00072 POD4		CP	LE	1	4	2	10	18S	33E	626865	3626028* 🌍	3626	70		
<u>L 09891</u>		L	LE		4	4	16	17S	33E	625264	3633144* 🌍	3669	190		
CP 01417 POD1		CP	LE				11	18S	33E	627036	3625738 🌍	3946	120	54	66
<u>L 02687</u>		L	LE		2	2	36	17S	33E	630137	3629598* 🌍	3979			
											Avera	ge Depth to Water	:	132 fee	t
												Minimum Dept	h:	45 fee	t
												Maximum Dept	1:	204 fee	t
Record Count: 13															
UTMNAD83 Radius	Search (in	meters):	L												
Easting (X): 6261	157.68		North	hing	(Y):	3629	585			Radius: 4000				
*UTM location was derived f		-													
The data is furnished by the N accuracy, completeness, reliabil					-			-		derstanding th	at the OSE/ISC ma	ake no warranties, ex	pressed or impli	ed, concern	ing the

10/23/17 3:54 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

Appendix IV Water Wells Map



Appendix V Sample Map



Appendix VI Excavation Map



Appendix VII Seed Mixture

Scription Sectem, Little "Cimarron" (Schizachyrium Pure Seed Germ Dormant Hard Seed Origin 4.32% 82.00% 14.00% 0.00% TX	
estem, Little "Cimarron" (Schizachyrium	
4 32% 82 00% 14 00% 0 00% TX	
panum)	
estem, Yellow "WW Spar" (Andropogon 7.22% 90.00% 5.00% 0.00%	
falograss, "Texoka" Primed KNO3 5.86% 96.00% 0.00% TX	
pseed, Sand (Sporobolus cryptandrus) 5.49% 31.00% 63.00% 0.00%	
cue, Tall "KY 31" (Festuca arundinacea 1.98% 85.00% 0.00% 0.00% OR	
ma, Blue (Bouteloua gracilis) 19.49% 94.00% 0.00% 0.00% NM	
ma, Sideoats (Bouteloua curtipendula) 22.06% 46.00% 39.00% 0.00% KS	
ingrass, "Selection 75" (Panicum	
pratum) 7.82% 95.00% 0.00% TX	
7.82 % 95.00 % 0.00 % TX tchgrass, "Blackwell" (Panicum virgatum) 7.82 % 21.00 % 72.00 % 0.00 % TX	

Appendix VIII Cardinal Lab Results



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

October 19, 2017

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

RE: WYATT PHILIPS

Enclosed are the results of analyses for samples received by the laboratory on 10/12/17 12:45.

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

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

 Method EPA 552.2
 Haloacetic Acids (HAA-5)

 Method EPA 524.2
 Total Trihalomethanes (TTHM)

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



CARDINAL Laboratories

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

Analytical Results For:

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

Received:	10/12/2017	Sampling Date:	10/11/2017
Reported:	10/19/2017	Sampling Type:	Soil
Project Name:	WYATT PHILIPS	Sampling Condition:	Cool & Intact
Project Number:	BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: A-1 (H702763-01)

1197	mg/kg		Analyzed By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	10/17/2017	ND	1.90	94.9	2.00	1.59	
<0.050	0.050	10/17/2017	ND	1.72	85.8	2.00	1.87	
<0.050	0.050	10/17/2017	ND	1.74	87.1	2.00	0.234	
<0.150	0.150	10/17/2017	ND	5.30	88.4	6.00	0.359	
<0.300	0.300	10/17/2017	ND					
	Result <0.050 <0.050 <0.050 <0.150	Result Reporting Limit <0.050	Result Reporting Limit Analyzed <0.050	Result Reporting Limit Analyzed Method Blank <0.050	Result Reporting Limit Analyzed Method Blank BS <0.050	Result Reporting Limit Analyzed Method Blank BS flie Recovery <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD <0.050

Surrogate: 4-Bromofluorobenzene (PID 99.3 % 72-148

Chloride, SM4500CI-B	mg/kg		Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3920	16.0	10/16/2017	ND	432	108	400	7.14	
TPH 8015M	mg/kg		Analyzed By: MS			10.0	_	11.	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/16/2017	ND	192	96,2	200	3.71	
DRO >C10-C28	<10.0	10.0	10/16/2017	ND	213	107	200	5.52	
EXT DRO >C28-C36	<10.0	10.0	10/16/2017	ND					
Surrogate: 1-Chlorooctane	80.5	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	82.1	% 34.7-15	7						

Cardinal Laboratories

*=Accredited Analyte

RESEL NOTE: Usably and Damages. Cardina's Bapily and clear's exclusive prevely for any capy stand, whether band is contract or bot, day is beinned to the annual pair by clear for subject. All clears, including these for subjects and any clear stand, whether band is contract or bot, day is the complete or the applicable antes. In orient day is block for isodered or consequential damages, including, whether bands on the stand stand and an orient day is block for isodered or consequential damages, including, whether bands on a model of the applicable antes. It is elected to be performance of the lawyes behavior by Cardina's registeria of whether such clears arising out or valued to be performance of the lawyes behavior by Cardina's registeria of whether such clears and upon any of the above band reasons arising out of an isoder to be performance of the lawyes behavior by Cardina's registeria of whether such clears arising out of the above band reasons arising out of an isoder to be performance of the lawyes behavior by Cardina's registeria of whether such clears arising out of the above band reasons arising out of an isoder to be performance of the lawyes behavior by Cardina's registeria of whether such clears arising out of the above band reasons arising out of an isoder to be performance of the lawyes behavior by Cardina's registeria of whether such clears arising out of the above band reasons arising out of an isode to be performance of the lawyes behavior by Cardina's registeria of the registeria of the lawyes behavior by Cardina's registeria of the registeria of the above band reasons arising out of an isoder the registeria of the lawyes behavior of the lawyes behavior by Cardina's registeria of the lawyes behavior of the lawyes behavior of the registeria of the

Cellery T. Keine -

Celey D. Keene, Lab Director/Quality Manager

Page 2 of 5



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

Analytical Results For:

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

Received:	10/12/2017	Sampling Date:	10/11/2017
Reported:	10/19/2017	Sampling Type:	Soil
Project Name:	WYATT PHILIPS	Sampling Condition:	Cool & Intact
Project Number:	BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: A-3 (H702763-02)

Chloride, SM4500CI-B	mg/kg		Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4320	16.0	10/16/2017	ND	432	108	400	7.14	

Sample ID: A-7 (H702763-03)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					-
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8530	16.0	10/16/2017	ND	432	108	400	7.14	

Sample ID: A-10 (H702763-04)

Chloride, SM4500CI-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	10/16/2017	ND	432	108	400	0.00	

Sample ID: A-20 (H702763-05)

Chloride, SM4500CI-B	mg/kg		Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/16/2017	ND	432	108	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

RUSCI NOTE Liability and (amages, Cardinals, liability and clearts exclass regress) for any calor saming, whither based is contract or tort, dual is (instet to the annuals point for margines. W stars, including types for supported and other react which were start to be cleared award under reacts in entropy and reacted by clusters when their (1) days the completion of the applacity and were start to all cleared award under reacts in entropy and reacted by clusters when their (2) days the completion of the applacity and were start to all cleared award or their to be to be for a cleared award or their to the cleared award or their the total start and the start and the cleared award award or their total start award award award award award and the cleared award award

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Celey D. Keene, Lab Director/Quality Manager

Page 3 of 5



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

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.
4	Chloride by SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

RUNCE NOTE: Likelity and Damages: Cardina's labelity and clearts exclusive reperty for any calm noting, whether based in contract or tort, dual be limited to the annual park by duet for paragees. All dama, including those for readjaces and any other cause whethere shall be deemed values made in writing and received within their (1) dama after completion of the applicable annex. All dama, including those for readjaces and any date cause whethere shall be deemed values made in writing and received within their (1) dama after completion of the applicable annex. All dama, including those for readjaces and including, whether limitstom, instance interpreting, loss of a number is writing and received annex. All dama, and and the state completion of the applicable annex. All dama, including whether approximate for the partners of the annex is however, have been applicable annex. All dama, including whether approximate for applicable annex. All dama, including the shall be deemed and and the important of the annex of the annex is however, have been applied annex. All dama, appendix of an whether approximate for applicable annex.

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Celey D. Keene, Lab Director/Quality Manager

Page 4 of 5

Company Name: Ke of	1-2326 FAX (575) 393-24	Service	6	VILL TO	-		ANALYSIS	DEGUIDAN	_	_
Address: 47 E Dic City Lovington Phone # 575-631-0 Project # Project Name: Project Location: WYCL Sampler Name: Chuck	Kens Rcl State: NM 131 Fax# Project Owner H Philips Bo	1 Zp: 88260 77 Noble	Attn:							
H102-763 / A-1 2 A-3 3 A-7 4 A-10 5 A-20	ample I.D.	CD CD CD (G)RAB OR (C) CMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL SOIL SOIL SOIL SOIL SOIL	OTHER ACIDIGASE ICE / COOL		*** ** Chlorid	× hold × hold × hold				
elinquished By:		y dam along of the band is called an and the state of the	a tert, strad to sended rentred by Cardina's med ton, of how of p hereof tone and of p hereof tone and of the Machine	Phone Result	off DY	as The	Idd'i Phone #: Idd'i Fax #	Hole	d 8-5TA	BTG



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

October 19, 2017

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

RE: WYATT PHILIPS

Enclosed are the results of analyses for samples received by the laboratory on 10/12/17 12:45.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager

Page 1 of 5
PHONE (575) 393-2326 * 101 E. MARLAND * HOBBS, NM 88240

Analytical Results For:

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

Received:	10/12/2017	Sampling Date:	10/11/2017
Reported:	10/19/2017	Sampling Type:	Soil
Project Name:	WYATT PHILIPS	Sampling Condition:	Cool & Intact
Project Number:	BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B-2 (H702764-01)

BTEX 80218	mg/kg		Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2017	ND	1.90	94,9	2.00	1.59	
Toluene*	<0.050	0.050	10/17/2017	ND	1.72	85.8	2.00	1.87	
Ethylbenzene*	<0.050	0.050	10/17/2017	ND	1.74	87.1	2.00	0.234	
Total Xylenes*	<0.150	0.150	10/17/2017	ND	5.30	88.4	6.00	0.359	
Total BTEX	<0.300	0.300	10/17/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID 100 % 72-148

Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3160	16.0	10/16/2017	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS				10	_
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/16/2017	ND	192	96.2	200	3.71	
DRO >C10-C28	<10.0	10.0	10/16/2017	ND	213	107	200	5.52	
EXT DRO >C28-C36	<10.0	10.0	10/16/2017	ND					
Surrogate: 1-Chlorooctane	83.1	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	81.3	% 34.7-15	7						

Cardinal Laboratories

*=Accredited Analyte

RESE! NOTE: Uselity and Damages. Cardina's leaders and an entropy and clearly explosive tends to any other based in contract or bot, deal is limited to the annual paid by deet for seaspine. All dama, including these for reagings and any other based in the company of the complete or the applicable water. In one event deal Cardina's leaders in the index of the company of the complete or the applicable water. In one event deal Cardina's leaders to the company of the complete or the company of the complete or the applicable water. In one event deal Cardina's leaders to the company of the complete or the applicable water. In the event deal Cardina's leaders to the company of the complete or or maked to be performance of the service leavable water and cardina's additional addi

Cellery Z. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 2 of 5



Analytical Results For:

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

Received:	10/12/2017	Sampling Date:	10/11/2017
Reported:	10/19/2017	Sampling Type:	Soil
Project Name:	WYATT PHILIPS	Sampling Condition:	Cool & Intact
Project Number:	BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B-4 (H702764-02)

Chloride, SM4500CI-B	mg/kg	Analyzed By: AC

Analyte	Result	Reporting Limit:	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6880	16.0	10/16/2017	ND	432	108	400	0.00	

Sample ID: B-6 (H702764-03)

Chloride, SM4500CI-B	mg.	/kg	Analyze	d By: AC					_
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4160	16.0	10/16/2017	ND	432	108	400	0.00	

Sample ID: B-8 (H702764-04)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/16/2017	ND	432	108	400	0.00	

Sample ID: B-18 (H702764-05)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Quaifier
Chloride	32.0	16.0	10/16/2017	ND	432	108	400	0.00	

Cardinal Laboratories

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HERGE NOTE: Labely, and Europe. Controls leading and depth exclusive remedy for any calls paids, whether based in contract or tort, shall be limited to the annual paid by dept for paywar. All dama, including troops for supported and any other cause whetherses that he demand and an and is in string and remedy by Callina and the total and contract or tort, shall be limited to the annual paid by dept for paywar. All dama, including troops for supports and any other cause whetherses that he demand and an annual is introduced by Callina and the total and contract or tort, shall be limited to the annual paid by dept for paywar. All dama, including troops for supports of the applicable entries. This may exclude the callina and the contract of parts introduced and the callina and to call and the particular of the applicable entries. The particular damand is called to the total and to the called to the particular damand and the called to the total and to the particular damand and the called to the total and the called total and the called total and total and total and the particular damand and the called total and total and total and total and total and the called total and total and total and the called total and total and total and the called total and total a

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Celey D. Keene, Lab Director/Quality Manager

Page 3 of 5



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 SM4500CI-8 does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

REASE NOTE: Labelty and Demages: Depletely labelty and clevits ended we wandy for any clevit androg, whether based in contract or tot, chail be limited to the annual pair for garages. All demit, including those for suggests and any other cases whethewer shall be deemed water under a method and reached by Catefora weblic their completions of the applicable water. This we went chail Cateforal weblics for to consequential demages, including, webmat limitedon, bounnes interruptions, loss of under size of portal isourced by Catefora weblicket, without or successors and on or of the applicable water. This water to be service interruption, inguidess of whether each cateforal balance provide assess of services in the provide balance. Without or successors and to define applicable and to the service interruption, inguidess of whether each cateforal balance provide assess of services in the provide balance. This provide accepts is defined assessed to all defined assesses.

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Celey D. Keene, Lab Director/Quality Manager

Page 4 of 5



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 5 of 5



October 19, 2017

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

RE: WYATT PHILIPS

Enclosed are the results of analyses for samples received by the laboratory on 10/12/17 12:45.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager

Page 1	of 5
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PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

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

10/12/2017	Sampling Date:	10/11/2017
10/19/2017	Sampling Type:	Soil
WYATT PHILIPS	Sampling Condition:	Cool & Intact
BATTERY	Sample Received By:	Tamara Oldakei
NOT GIVEN		
	10/19/2017 WYATT PHILIPS BATTERY	10/19/2017 Sampling Type: WYATT PHILIPS Sampling Condition: BATTERY Sample Received By:

Sample ID: C-6 (H702765-01)

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	10/17/2017	ND	1.90	94.9	2.00	1.59	
Toluene*	<0.050	0.050	10/17/2017	ND	1.72	85.8	2.00	1.87	
Ethylbenzene*	<0.050	0.050	10/17/2017	ND	1.74	87.1	2,00	0.234	
Total Xylenes*	<0.150	0.150	10/17/2017	ND	5.30	88.4	6.00	0.359	
Total BTEX	<0.300	0.300	10/17/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID 99.0% 72-148

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2080	16.0	10/16/2017	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyzed By: MS					1.10	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Quaifier
GRO C6-C10	<10.0	10.0	10/16/2017	ND	192	96.2	200	3.71	
DRO >C10-C28	<10.0	10.0	10/16/2017	ND	213	107	200	5.52	
EXT DRO >C28-C36	<10.0	10.0	10/16/2017	ND					
Surrogate: 1-Chlorooctane	\$4.9	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	90.8	% 34.7-15	7						

Cardinal Laboratories

*=Accredited Analyte

RUSCE NOTE: Unbits and Jamages. Contrains balling and clearst exclusive versely for any calls attilds, whether based in contract or tor, chail be limited to the annual pair by clear for analyses. W clears, including trove for suggests and any other mass violations what have a balling and an end of a method and an end of the section of the applicable werks. In its new end claim of the labels for located of the inclusion of the section of

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Celey D. Keene, Lab Director/Quality Manager

Page 2 of 5



Analytical Results For:

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

Received:	10/12/2017	Sampling Date:	10/11/2017
Reported:	10/19/2017	Sampling Type:	Soil
Project Name:	WYATT PHILIPS	Sampling Condition:	Cool & Intact
Project Number:	BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: C-8 (H702765-02)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1760	16.0	10/16/2017	ND	432	108	400	0.00	

Sample ID: C-10 (H702765-03)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC		_			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Quaifie
Chloride	48.0	16.0	10/16/2017	ND	432	108	400	0.00	
Sample ID: C-15 (H702765-	04)								

Sample ID: C-15 (H702765-04)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/16/2017	ND	432	108	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit.
RPD	Relative Percent: Difference
	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
	Chloride by SM4500CI-B does not require samples be received at or below 6°C.
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

REASE NOTE: Lightly and Language. Controls beinking and clearts suchains expects for any cases making whether based in control or tort, shall be limited to the answert paid by deet for analyses. Wi takes, including those for sanglepanes and any other mass whatasever shall be deemed valued unker made in writing and reaseved within their (1) of any stars completion of the applicable annies. In moviewed and Controls he limits for including the deemed by Control within their (1) of any stars completion of the applicable annies. In moviewed and Controls he limits for including whether limits and takes of the annies of the annies

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Celey D. Keene, Lab Director/Quality Manager

Page 4 of 5

101 East Mariand, Hob (575) 393-2326 FAX (5 Company Name: Hepublic Bo Project Manager: Cruc, Golt Coo	5) 393-2476	CHAIN-OF-CUSTODY AND ANALYSIS REQUEST						
Address: 47 E Dickens Rd City Lowington s Phone # 575-631-0131 Fai	iate: UM Zip: E8260 #: ject Owner: Noble	10/11/1 3:40 10/11/1 3:50	XXX Chloride XXX TPH VXX BTEX	REQUEST				
	Interests to serve data servery electric based to determine where the data and the server of the data and in the server of the Contrast of the servers between the market by Contrast regarding of the data and the market by Contrast regarding of the data and Market by Contrast regarding of the data Market by Contrast of the server between the Market by Contrast of the server between the Market by Contrast of the server between the Market by Contrast of the server Market by Contrast of the server Cost Intast Cost Intast We By Server by Server Market by Server by Server by Server Market by Server by Server by Server by Server Market by Server	The deal as based to the annual basis by the small to the model by Calculate the the days derive regulation of the as a func, or how at portion bismore its send, is advised and usen that of the days called treatment and usen that of the days called treatment MacKay Checkberg By: Checkberg By: Checkberg By: Checkberg By:		com Hold 2.4 TPA + m Pending results				



October 23, 2017

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

RE: WYATT PHILIPS

Enclosed are the results of analyses for samples received by the laboratory on 10/16/17 15:25.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager

Page 1 of 19



Analytical Results For:

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

Received:	10/16/2017	Sampling Date:	10/13/2017
Reported:	10/23/2017	Sampling Type:	Soil
Project Name:	WYATT PHILIPS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: D-1 (H702799-01)

Sample ID: D-1 (H702799-01) BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Quaifier
Benzene*	< 0.050	0.050	10/19/2017	ND	1.91	95.3	2.00	0.603	
Toluene*	<0.050	0.050	10/19/2017	ND	1.72	85.8	2.00	0.645	
Ethylbenzene*	<0.050	0.050	10/19/2017	ND	1.71	85.7	2.00	1.08	
Total Xylenes*	<0.150	0.150	10/19/2017	ND	5.14	85.7	6.00	1.51	
Total BTEX	<0.300	0.300	10/19/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID 102 % 72-148

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC	_				
Analyte	Result	Reporting Limit:	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	10/20/2017	ND	432	108	400	3,64	
TPH 8015M	mg/kg		Analyze	d By: MS	100		- 14	1.11	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO 06-C10	<10.0	10.0	10/18/2017	ND	207	104	200	0.951	
DRO >C10-C28	<10.0	10.0	10/18/2017	ND	213	107	200	0.758	
EXT DRO >C28-C36	22.6	10.0	10/18/2017	ND					
Surrogate: 1-Chlorooctane	75.9	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	72.5	% 34.7-15	7						

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Page 2 of 19

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

Analytical Results For:

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

Received:	10/16/2017	Sampling Date:	10/13/2017
Reported:	10/23/2017	Sampling Type:	Soil
Project Name:	WYATT PHILIPS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: D-2 (H702799-02)

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	10/19/2017	ND	1.91	95.3	2.00	0.603	
Toluene*	<0.050	0.050	10/19/2017	ND	1.72	85.8	2.00	0.645	
Ethylbenzene*	<0,050	0.050	10/19/2017	ND	1.71	85.7	2.00	1.08	
Total Xylenes*	<0.150	0.150	10/19/2017	ND	5.14	85.7	6.00	1.51	
Total BTEX	<0.300	0.300	10/19/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID 101 % 72-148

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC				_	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	10/20/2017	ND	416	104	400	3.77	
TPH 8015M mg/kg		/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/18/2017	ND	207	104	200	0.951	
DR0 >C10-C28	<10.0	10.0	10/18/2017	ND	213	107	200	0.758	
EXT DRO >C28-C36	<10.0	10.0	10/18/2017	ND					
Surrogate: 1-Chlorooctane	77.0	% 28.3-16	4						
Surrogate: 1-Chiorooctadecane	70.7	% 34.7-15	7						

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Page 3 of 19



Analytical Results For:

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

Received:	10/16/2017	Sampling Date:	10/13/2017
Reported:	10/23/2017	Sampling Type:	Soil
Project Name:	WYATT PHILIPS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: E-S (H702799-03)

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	10/19/2017	ND	1.91	95.3	2.00	0.603	
Toluene*	<0.050	0.050	10/19/2017	ND	1.72	85.8	2.00	0.645	
Ethylbenzene*	<0.050	0.050	10/19/2017	ND	1,71	85.7	2.00	1.08	
Total Xylenes*	<0.150	0.150	10/19/2017	ND	5.14	85.7	6.00	1.51	
Total BTEX	<0.300	0.300	10/19/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID 100 % 72-148

Chloride, SM4500CI-B	mg.	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/20/2017	ND	416	104	400	3.77	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/18/2017	ND	207	104	200	0.951	
DR0 >C10-C28	<10.0	10.0	10/18/2017	ND	213	107	200	0.758	
EXT DRO >C28-C36	<10.0	10.0	10/18/2017	ND					
Surrogate: 1-Chlorooctane	82.4	% 28.3-16	4						

Surrogate: 1-Chlorooctadecane 70.6 % 34.7-157



*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Page 4 of 19

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

Analytical Results For:

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

10/16/2017	Sampling Date:	10/13/2017
10/23/2017	Sampling Type:	Soil
WYATT PHILIPS	Sampling Condition:	Cool & Intact
NONE GIVEN	Sample Received By:	Tamara Oldaker
NOT GIVEN		
	10/23/2017 WYATT PHILIPS NONE GIVEN	10/23/2017 Sampling Type: WYATT PHILIPS Sampling Condition: NONE GIVEN Sample Received By:

Sample ID: E-1 (H702799-04)

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	10/19/2017	ND	1.91	95.3	2.00	0.603	
Toluene*	<0.050	0.050	10/19/2017	ND	1.72	85.8	2.00	0.645	
Ethylbenzene*	<0.050	0.050	10/19/2017	ND	1.71	85.7	2.00	1.08	
Total Xylenes*	<0.150	0.150	10/19/2017	ND	5.14	85.7	6.00	1.51	
Total BTEX	<0.300	0.300	10/19/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID 100 % 72-148

Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	10/20/2017	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO 06-C10	<10.0	10.0	10/18/2017	ND	207	104	200	0.951	
DRO >C10-C28	<10.0	10.0	10/18/2017	ND	213	107	200	0.758	
EXT DRO >C28-C36	<10,0	10.0	10/18/2017	ND					
Surrogate: 1-Chlorooctane	30.5	% 28.3-16	4						

Surrogate: 1-Chiorooctadecane	76.7%	34.7-157



*=Accredited Analyte

REASE NOTE: Likelify and Denotes: Destinate leading and denty endower meredy for any calm instem, whether leads in contract or tot, shall be limited to the amount paid by dent for partynes. All dama, including those for anglesces and any other cases whethewer shall be denoted tables made in writing and reserved with the limit by dama of the segment and tables or assessments damaged, including, without limitedon, beames interpolar, loss of any note increased by cleric, the absolute without or assessment and tables or assessment and tables or analyzes of a whether each calm is based owned reserved reserved. Name for the analyzes interpolation of the registration except this whether the spinse of calmal laborations.

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Celey D. Keene, Lab Director/Quality Manager

Page 5 of 19

Laboratories

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

Analytical Results For:

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

Received:	10/16/2017	Sampling Date:	10/13/2017
Reported:	10/23/2017	Sampling Type:	Soil
Project Name:	WYATT PHILIPS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: F-S (H702799-05)

mg/	'kg	Analyzed By: MS						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	10/19/2017	ND	1.91	95.3	2.00	0.603	
<0.050	0.050	10/19/2017	ND	1.72	85.8	2.00	0.645	
<0.050	0.050	10/19/2017	ND	1.71	85.7	2.00	1.08	
<0.150	0.150	10/19/2017	ND	5.14	85.7	6.00	1.51	
<0.300	0.300	10/19/2017	ND					
	Result <0.050 <0.050 <0.050 <0.150	<0.050 0.050 <0.050 0.050 <0.050 0.050 <0.150 0.150	Result Reporting Limit Analyzed <0.050	Result Reporting Limit Analyzed Method Blank <0.050	Result Reporting Limit Analyzed Method Blank BS <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD <0.050

Surrogate: 4-Bromofluorobenzene (PID 99.5% 72-148

Chloride, SM4500CI-B	mg/kg		Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/20/2017	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS		1.1			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO 06-C10	<10.0	10.0	10/18/2017	ND	207	104	200	0.951	
DR0 >C10-C28	<10.0	10.0	10/18/2017	ND	213	107	200	0.758	
EXT DRO >C28-C36	<10.0	10.0	10/18/2017	ND					
Surrogate: 1-Chiorooctane	74.9	% 28.3-16	4						

Surrogate: 1-Chlorooctadecane 72.6% 34.7-157

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REASE NOTE: Liability and Damages. Constraints bablies and clearts excases remedy for any calm antiality, whether based in contract or but, shall be limited to the annuant paid by deet for analyses. All dama, including those for analyses and any other cases whoteverse that be devened whether andle on writing and increased by Credital whether andle (10) days after comparison of the applicable analyse. In or event shall Credital be labels for including those for analyses, and and other analy without introduce, business that many calm and increased by Credital whether andle calm is based compared that down and and and on a loss or loss of grades increased by Credital and the production and and other in the analyses of the analyses. All damas, including the analyses of whether and calm is based compared that down and and many or loss of grades increased by Credital calma be accessed and and other and calmade the analyses.

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Celey D. Keene, Lab Director/Quality Manager

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Laboratories

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

Analytical Results For:

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

Received:	10/16/2017	Sampling Date:	10/13/2017
Reported:	10/23/2017	Sampling Type:	Soil
Project Name:	WYATT PHILIPS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: F-1 (H702799-06)

BTEX 8021B	mg.	/kg	Analyze	Analyzed By: MS					
Analyte Re	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/19/2017	ND	1.91	95.3	2.00	0.603	
Toluene*	<0.050	0.050	10/19/2017	ND	1.72	85.8	2.00	0.645	
Ethylbenzene*	<0.050	0.050	10/19/2017	ND	1.71	85.7	2.00	1.08	
Total Xylenes*	<0.150	0.150	10/19/2017	ND	5.14	85.7	6.00	1.51	
Total BTEX	<0.300	0.300	10/19/2017	ND					

and the second second

Surrogate: 4-Bromofluorobenzene (PID Chloride, SM4500Cl-B	101 mg			d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	10/20/2017	ND	416	104	400	3.77	
TPH 8015M	mg/kg		Analyzed By: MS			1			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/18/2017	ND	207	104	200	0.951	
DR0 >C10-C28	<10.0	10.0	10/18/2017	ND	213	107	200	0.758	
EXT DRO >C28-C36	<10.0	10.0	10/18/2017	ND					
Surrogate: 1-Chlorooctane	85.7	% 28.3-16	4						

Surrogate: 1-Chlorooctadecane 71.1% 34.7-157

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REASE NOTE: Liability and Damages. Declarity labelity and clearts excases remety for any cairs aniset, whether based in contract or but, dual be limited to the annuant state by cleart basings. All claims, including those for angiguence and any other cases whoteverse that be devened whether ands on writing and increased by Credital whether tasks. (10) days after comparison of the applicable annits. In or event dual Castria be labels for including those for angiguence and and other ands whoteverse that be devened whether ands on loss of goods increased by Credital whether and adding without including, basiness intermediate, including the classifies and accession anning out of or whether and class in aband compared the down and and annot or therein. All and only to be angines intermediate above rands calls in band compared the down and annot or thermose. Sealth make only to be angines intermediate above for laborative approximate.

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Celey D. Keene, Lab Director/Quality Manager

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

Analytical Results For:

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

10/16/2017	Sampling Date:	10/13/2017
10/23/2017	Sampling Type:	Soil
WYATT PHILIPS	Sampling Condition:	Cool & Intact
NONE GIVEN	Sample Received By:	Tamara Oldaker
NOT GIVEN		
	10/23/2017 WYATT PHILIPS NONE GIVEN	10/23/2017 Sampling Type: WYATT PHILIPS Sampling Condition: NONE GIVEN Sample Received By:

Sample ID: G-1 (H702799-07)

BTEX 8021B	mg)	mg/kg		Analyzed By: MS				-	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS % Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/19/2017	ND	1.91	95.3	2.00	0.603	
Toluene*	<0.050	0.050	10/19/2017	ND	1.72	85.8	2.00	0.645	
Ethylbenzene*	<0.050	0.050	10/19/2017	ND	1.71	85.7	2.00	1.08	
Total Xylenes*	<0.150	0.150	10/19/2017	ND	5.14	85.7	6.00	1.51	
Total BTEX	<0.300	0.300	10/19/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID 101% 72-148

Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte:	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	10/20/2017	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/18/2017	ND	207	104	200	0.951	
DR0 >C10-C28	<10.0	10.0	10/18/2017	ND	213	107	200	0.758	
EXT DRO >C28-C36	<10.0	10.0	10/18/2017	ND					
Surrogate: 1-Chlorooctane	78.6	% 28.3-16	4						

Surrogate: 1-Chlorooctadecane	76.7%	34.7-157

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RUSSI NOTE Justity and (process. Contracts ballity and clearts endower wavely for any calor anting, whether based in contract or bot, dual is insted to the ancient point by cleart for margines. W taken, including trace for surgices and any other cases whethere shall be densed waveled whether made in writing and waveled within the ((3) days the completion of the applicable anxies. In or event and Castrial be labele for including the cases whethere we applicable anxies. In or event and Castrial be labele for including the cases whethere any taken any taken and the subscription of the applicable anxies. The cases have deep to be applied before taken the additioner, attacks on a surgering of of or whether to the pathomators of the survival have by Castrial individual applicable and the survival and the survival advantages.

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Celey D. Keene, Lab Director/Quality Manager

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

Analytical Results For:

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

Received:	10/16/2017	Sampling Date:	10/13/2017
Reported:	10/23/2017	Sampling Type:	Soil
Project Name:	WYATT PHILIPS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: G-3 (H702799-08)

	/kg	Analyzed By: MS						
Result	Reporting Limit	Analyzed	Method Blank	BS %	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	10/19/2017	ND	1.91	95.3	2.00	0.603	
<0.050	0.050	10/19/2017	ND	1.72	85.8	2.00	0.645	
<0.050	0.050	10/19/2017	ND	1.71	85.7	2.00	1.08	
<0.150	0.150	10/19/2017	ND	5.14	85.7	6.00	1.51	
<0.300	0.300	10/19/2017	ND					
	<0.050 <0.050 <0.050 <0.150	<0.050 0.050 <0.050 0.050 <0.050 0.050 <0.150 0.150	<0.050 0.050 10/19/2017 <0.050 0.050 10/19/2017 <0.050 0.050 10/19/2017 <0.050 0.150 10/19/2017	<0.050 0.050 10/19/2017 ND <0.050	<0.050 0.050 10/19/2017 ND 1.91 <0.050	<0.050 0.050 10/19/2017 ND 1.91 95.3 <0.050	<0.050 0.050 10/19/2017 ND 1.91 95.3 2.00 <0.050	<0.050 0.050 10/19/2017 ND 1.91 95.3 2.00 0.603 <0.050

Surrogate: 4-Bromofluorobensene (PID 101 % 72-148

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3600	16.0	10/20/2017	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS		1.0.1			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/18/2017	ND	207	104	200	0.951	
DRO >C10-C28	<10.0	10.0	10/18/2017	ND	213	107	200	0.758	
EXT DRO >C28-C36	<10.0	10.0	10/18/2017	ND					
Surrogate: 1-Chiorooctane	82.4	% 28.5-16	4						
Surrogate: 1-Chlorooctadecane	83.4	% 34.7-15	7						

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RUSCE NOTE: Unbits and Jamages. Contrains labeling and clearst exclusive versely for any calls satisfy whether based in contract or tor, chail be limited to the annual pair by clear for scalegards and any other mass it writing and research by clearst advectory and the contract or tor, chail be limited to the annual pair by clear for scalegards and any other mass it writing and research by clearst advectory and the contract or tor, chail be limited to the annual pair by clear the indexed by clearst advectory and the company of the annual to the performance of the annual here to the scale to the clear to or company and advectory a

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Celey D. Keene, Lab Director/Quality Manager

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

Analytical Results For:

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

Received:	10/16/2017	Sampling Date:	10/13/2017
Reported:	10/23/2017	Sampling Type:	Soil
Project Name:	WYATT PHILIPS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: H-S (H702799-09)

BTEX 8021B	mg	mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2017	ND	1.91	95.3	2.00	0.603	
Toluene*	<0.050	0.050	10/20/2017	ND	1.72	85.8	2.00	0.645	
Ethylbenzene*	<0.050	0.050	10/20/2017	ND	1.71	85.7	2,00	1.08	
Total Xylenes*	<0.150	0.150	10/20/2017	ND	5.14	85.7	6.00	1.51	
Total BTEX	<0.300	0.300	10/20/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID 98.3 % 72-148

Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1520	16.0	10/20/2017	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/18/2017	ND	188	94.0	200	0.494	
DRO >C10-C28	<10.0	10.0	10/18/2017	ND	208	104	200	0.307	
EXT DRO >C28-C36	<10.0	10.0	10/18/2017	ND					
Surrogate: 1-Chlorooctane	77.5	% 28:3-16	4						
Surrogate: 1-Chlorooctadecane	87.8	% 34.7-15	7						

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RESENT NOTE: subling and Damages. Dardinar's leading and clearst exclusive periody for any cases standing, whether based is contract or bot, shall be limited to the annual paid by deet for sealpains. All dama, including these for sequences all be averaged and damages. Including these for reading and clearst and damages and any dama cases in writing and clearst all clearst all damages. The damage and damages and damages and damages and damages and damages and damages including, whether shall clearst all clearst all and an or event able caterials are all or or or all of a september of the performance of the services here the careful and the formation of the service herewater by Dardina's registers of whether such clears are all or all on the performance of the service herewater by Dardina's registers of whether such clears are all on the service herewater and clearst all whether such clears are all on the service herewaters. This registers are all on the service herewater is the performance of the service herewater by Dardina's registers of whether such clears are all on the service herewaters.

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Celey D. Keene, Lab Director/Quality Manager

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

Analytical Results For:

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

Received:	10/16/2017	Sampling Date:	10/13/2017
	10/23/2017		
Reported:		Sampling Type:	Soil
Project Name:	WYATT PHILIPS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: H-1 (H702799-10)

BTEX 8021B	mg	mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2017	ND	1.91	95.3	2.00	0.603	
Toluene*	<0.050	0.050	10/20/2017	ND	1.72	85.8	2.00	0.645	
Ethylbenzene*	<0.050	0.050	10/20/2017	ND	1.71	85.7	2,00	1.08	
Total Xylenes*	<0.150	0.150	10/20/2017	ND	5.14	85.7	6.00	1.51	
Total BTEX	<0.300	0.300	10/20/2017	ND					

Surrogate: 4-Bromafluorobenzene (PID 99.8% 72-148

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	10/20/2017	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS	1				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/18/2017	ND	188	94.0	200	0.494	
DR0 >C10-C28	<10.0	10.0	10/18/2017	ND	208	104	200	0.307	
EXT DRO >C28-C36	<10.0	10.0	10/18/2017	ND					
Surrogate: 1-Chlorooctane	81.6	% 28:3-16	4						
Surrogate: 1-Chiorooctadecane	\$8.1	% 34.7-15	7						

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RESENT NOTE: subling and Damages. Dardinal's leading and clearst exclusive periody for any care string, whether based is contract or bot, dail is limited to the annual pail by deet for parages. All dama, including these for any dam cases whethere shall be annual to be annual pail by deet for paragement. All dama, including these for any dam cases whethere shall be annual to be annual to be performance of the annual to the terminate by Dardinal to the start of whether subching whether annual importance is of uses or use of our of uses or tool of profession of the annual to the performance of the annual to the performance of the annual to the terminate of whether subching handle upon any of the shore dated masces or develow. Name by the samples identified externs thill addite whether applied addites.

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Celey D. Keene, Lab Director/Quality Manager

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

Analytical Results For:

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

Received:	10/16/2017	Sampling Date:	10/13/2017
Reported:	10/23/2017	Sampling Type:	Soil
Project Name:	WYATT PHILIPS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: I-1 (H702799-11)

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	10/20/2017	ND	1.72	86.2	2.00	0.526	
Toluene*	<0.050	0.050	10/20/2017	ND	1.73	86.5	2.00	0.748	
Ethylbenzene*	<0.050	0.050	10/20/2017	ND	1.75	87.6	2,00	1.02	
Total Xylenes*	<0.150	0.150	10/20/2017	ND	5.30	88.3	6.00	2.27	
Total BTEX	<0.300	0.300	10/20/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID 101 % 72-148

Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					_
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	10/20/2017	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS			11 C		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/18/2017	ND	188	94.0	200	0.494	
DRO >C10-C28	<10.0	10.0	10/18/2017	ND	208	104	200	0.307	
EXT DRO >C28-C36	<10.0	10.0	10/18/2017	ND					
Surrogate: 1-Chlorooctane	72.9	% 28:3-16	4						
Surrogate: 1-Chiorooctadecane	91.0	% 34.7-15	7						

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RESENT NOTE: subling and Damages. Dardinal's leading and clearst exclusive periods for any care string, whether based is contract or bot, dail is limited to the annual pail by deet for sealpings. All dama, including these for any dam cases whethere shall be annual to be annual pail by deet for sealpings. All dama, including these for any dam cases whethere shall be annual to be annual to be performance of the annual to be performance of the annual to be performance of the annual to be performance. All dama, including these for the start based performance of the annual to be annual to be performance of the annual to be annual to be

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Celey D. Keene, Lab Director/Quality Manager

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

Analytical Results For:

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

Received:	10/16/2017	Sampling Date:	10/13/2017
Reported:	10/23/2017	Sampling Type:	Soil
Project Name:	WYATT PHILIPS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: I-2 (H702799-12)

BTEX 80218	mg.	mg/kg		d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Quaifier
Benzene*	<0.050	0.050	10/20/2017	ND	1.72	86.2	2.00	0.526	
Toluene*	<0.050	0.050	10/20/2017	ND	1.73	86.5	2.00	0.748	
Ethylbenzene*	<0.050	0.050	10/20/2017	ND	1.75	87.6	2.00	1.02	
Total Xylenes*	<0.150	0.150	10/20/2017	ND	5.30	88.3	6.00	2.27	
Total BTEX	<0.300	0.300	10/20/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID 101 % 72-148

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	Thue Value QC	RPD	Qualifier
Chloride	2160	16.0	10/20/2017	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS				- A.	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Quaifer
GRO 06-C10	<10.0	10.0	10/18/2017	ND	188	94.0	200	0.494	
DRO >C10-C28	<10.0	10.0	10/18/2017	ND	208	104	200	0.307	
EXT DRO >C28-C36	<10.0	10.0	10/18/2017	ND					
Surrogate: 1-Chlorooctane	81.7	% 28.3-16	4						

Surrogate: 1-Chlorooctadecane 88.8 % 34.7-157

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RESCE NOTE: Labelity and Lamages. Contrain's binling and clearst exclusive wavely for any claim uniting whether based in contract or tor, dual be limbed to the annual paid by dest for sonayways. Will blank, including those for any plane make the writing and network by Calma willing whether based in contract or tor, dual be limbed to the annual paid by dest for sonayways. Will blank, including those for any plane make the writing and network by Calma willing writing the sonary and an annual paid by the sonaryway of the sonaryways and the so

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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

Received:	10/16/2017	Sampling Date:	10/13/2017
Reported:	10/23/2017	Sampling Type:	Soil
Project Name:	WYATT PHILIPS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: J-1 (H702799-13)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2017	ND	1,72	86.2	2.00	0.526	
Toluene*	<0.050	0.050	10/20/2017	ND	1.73	86.5	2.00	0.748	
Ethylbenzene*	<0.050	0.050	10/20/2017	ND	1.75	87.6	2.00	1.02	
Total Xylenes*	<0.150	0.150	10/20/2017	ND	5.30	88.3	6.00	2.27	
Total BTEX	<0.300	0.300	10/20/2017	ND					
TOTAL BIEX	<0.300	0.300	10/20/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID 99.3 % 72-148

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/20/2017	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/18/2017	ND	188	94.0	200	0.494	
DR0 >C10-C28	<10.0	10.0	10/18/2017	ND	208	104	200	0.307	
EXT DRO >C28-C36	<10.0	10.0	10/18/2017	ND					
Surrogate: 1-Chlorooctane	\$0.8	% 28.3-16	4						

Surrogate: 1-Chlorooctadecane 92.6 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager

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

Analytical Results For:

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

Received:	10/16/2017	Sampling Date:	10/13/2017
Reported:	10/23/2017	Sampling Type:	Soil
Project Name:	WYATT PHILIPS	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: J-2 (H702799-14)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Quarter
Benzene*	<0.050	0.050	10/20/2017	ND	1.72	86.2	2.00	0.526	
Toluene*	<0.050	0.050	10/20/2017	ND	1.73	86.5	2.00	0.748	
Ethylbenzene*	<0.050	0.050	10/20/2017	ND	1.75	87.6	2.00	1.02	
Total Xylenes*	<0.150	0.150	10/20/2017	ND	5.30	88.3	6.00	2.27	
Total BTEX	<0.300	0.300	10/20/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID 101 % 72-148

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Links	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/20/2017	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS	1.00			1.57	_
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/18/2017	ND	188	94.0	200	0.494	
DRO >C10-C28	<10.0	10.0	10/18/2017	ND	208	104	200	0.307	
EXT DRO >C28-C36	<10.0	10.0	10/18/2017	ND					
Surrogate: 1-Chlorooctane	\$0.0	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	91.4	% 34.7-15	7						

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Celey D. Keene, Lab Director/Quality Manager

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

10/13/2017

Tamara Oldaker

Soil Cool & Intact

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

 Received:
 10/16/2017
 Sampling Date:

 Reported:
 10/23/2017
 Sampling Type:

 Project Name:
 WYATT PHILIPS
 Sampling Condition:

 Project Number:
 NONE GIVEN
 Sample Received By:

 Project Location:
 NOT GIVEN
 Sample Received By:

Sample ID: J-6 (H702799-15)

BTEX 80218	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2017	ND	1.72	86.2	2.00	0.526	
Toluene*	<0.050	0.050	10/20/2017	ND	1.73	86.5	2.00	0.748	
Ethylbenzene*	<0.050	0.050	10/20/2017	ND	1.75	87.6	2.00	1.02	
Total Xylenes*	<0.150	0.150	10/20/2017	ND	5.30	88.3	6.00	2.27	
Total BTEX	<0.300	0.300	10/20/2017	ND					

Surrogate: 4-Bromofluorobensene (PID 101 % 72-148

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Linvit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64,0	16.0	10/20/2017	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS	1.0			1.11	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/18/2017	ND	188	94.0	200	0.494	
DRO >C10-C28	<10.0	10.0	10/18/2017	ND	208	104	200	0.307	
EXT DRO >C28-C36	<10.0	10.0	10/18/2017	ND					
Surrogate: 1-Chlorooctane	80.2	% 28.3-16	4						

Surrogate: 1-Chlorooctadecane 85.7 % 34.7-157



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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LC recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
	Chloride by SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

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