

Republic Backhoe Service, LLC 47 E. Dickens Rd. Lovington, NM 88260 (575) 631-0131

April 14, 2023

District I 1625 N. French Drive Hobbs, NM 88240

Subject: Site Assessment/Closure

On behalf of Manzano LLC, Republic Backhoe Service, LLC (RBS) prepared this Site Assessment/Closure Report associated with Rum Point State #002 production line. The release occurred in the pasture between Rum Point State #002 and Rum Point State #001. The site is located in Unit H, Section 12, Township 14 South, Range 37 East, Lea County, New Mexico, on private land. Attachment #1 and #2 illustrates the vicinity and location of the site. Alluvial and eolian deposits, and petrocalcic soils from the lower Pliocene to middle Miocene age make up the subsurface of the area (mrdata.usgs.gov, Attachment #3 and #4). The site is categorized as Zone D, an area with potential flood risk, but with an undetermined probability (FEMA FIRMette Map, Attachment #4). The surface is privately owned by Alexander Ranch, LLC. The following table summarizes the nature and volume of release. Also see table 5 for Spill Calculations.

Table 1:

Crude Oil	Volume Released (bbls) 18	Volume Recovered (bbls) 0
Produced Water	Volume Released (bbls) 14	Volume Recovered (bbls) 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Ves No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release		
Pin-sized hole in under	ground 2 7/8" steel production line due to corrosion on the join	int.

Regulatory Guidelines

New Mexico Oil Conservation Division (NMOCD) regulates surface impacts from unauthorized release of crude oil, produced water, condensate or other oilfield waste in accordance with 19.15.29 of the New Mexico Administrative Code (NMAC). In accordance with NMAC 19.15.29, the Rum Point State #002 production line release is assessed by the following guidelines:

Table 2:

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

Groundwater Depth

A search of a groundwater database maintained by The New Mexico Office of the State Engineer (NMOSE) was conducted to determine the depth to groundwater at release site. POD L-00389-S2 is the nearest well (See Attachment #6). The distance between the release and POD L-00389-S2 is 1,370 feet (See Attachment #7). Current depth to water is 120 feet Bgs. The depth to water measurement was provided by the private land owner, Matt Alexander.

Closure Criteria

According to ground water depth determination and the distance of nearest wells, the following table summarizes NMOCD permissible level for the site. Closure criteria for TPH/BTEX/Benzene was assessed under the strictest limitations at all depths.

Table 3:

		ole I	
	Closure Criteria for Soi	s Impacted by a Release	
Minimum depth below any point within the horizontal boundary of the release to ground water less than 10,000 mg/l TDS	Constituent	Method*	Limit**
≤ 50 feet	Chloride***	EPA 300.0 or SM4500 C1 B	600 mg/kg
	(GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg
51 feet-100 feet	Chloride***	EPA 300.0 or SM4500 C1 B	10,000 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg
>100 feet	Chloride***	EPA 300.0 or SM4500 C1 B	20,000 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

*Or other test methods approved by the division.

**Numerical limits or natural background level, whichever is greater.

***This applies to releases of produced water or other fluids, which may contain chloride.

[19.15.29.12 NMAC - N, 8/14/2018]

Site Assessment/Delineation

On December 05, 2022, RBS went to the location to delineate the site. Initial soil analysis at a depth of 4 feet showed constituent levels for Chlorides/BTEX/TPH were significantly lower than NMOCD permissible values within the horizontal boundaries of the excavated area. Bottom hole sample B at four feet remained slightly above permissible levels for chlorides. TPH and BTEX results were also above permissible levels under the most protective concentration compliance for the top four feet of impacted soils. The following table summarizes the laboratory analytical results for soil samples collected during site delineation.

Table 4:

Sample	Depth	Chloride	BTEX	ТРН	Date	Location
ID	(ft.)	(mg/kg)	(mg/kg)	(mg/kg)		
А	4'	352	<0.300	199.7	12/05/2022	33.137749, -103.165126
В	4'	640	3.82	1,414.1	12/05/2022	33.137743, -103.165146
С	4'	480	<0.300	83.1	12/05/2022	33.137730, -103.165162
1	4' (Wall)	208	<0.300	<10.0	12/06/2022	NW Wall
2	4' (Wall)	272	<0.300	<10.0	12/06/2022	NE Wall
3	4' (Wall)	112	<0.300	<10.0	12/06/2022	SW Wall
4	4' (Wall)	128	<0.300	<10.0	12/06/2022	SE Wall

Table 5:

Based on visual inspection and porosity of soil, the initial spill calculation (11/18/2022) was estimated at 5 bbls crude oil and 4 bbls produced water. Incident # nAPP2232236458 was assigned. After excavation of the upper 4 ft, a ½ ft layer of compact caliche was removed. Upon further inspection and testing, it was determined that the release had worked through the compact layer and extended vertically an additional 4 ft. Calculations were then adjusted to reflect the new findings (03/24/2023) and submitted to the NMOCD. Incident #nAPP2308354642 was then assigned.

				***** LIQU	ID SPILLS - VO	DLUME CAL	CULATIONS *	****	
	Location	of Spill:	Rum Point State	#002 Production Li	ine	Date of	f Discovery: 1	0/24/2022	
						Sit	te Soil Type:	Loam/Caliche	
	Daily	Production:	11 BBLs Oil 9	BBIs Water					
	Darry I	Toddetron.	11 0013 011 3	bbes water					
		Total A	Area Calculation:	s					
Total Su	rface Area		Wet Soil Depth (in) Oil (%)	H2O (%)	Soil C	lass. Porosi	ty%	
Upper 4'	50		48	57	43	ML	21		
Lower 4'	225		48	57	43	GM	15		
Blank	0		0	0	0	0	0		
Saturated S	oil Volume	calculatio	ns:	<u>H2O</u>			OIL		
Upper 4'		200.00		3.22			4.26		
Lower 4'		900		10.34			13.70		
Blank		0.00		0.00			0.00		
Total Solid/									
	Estimated	Volumes	Spilled	<u>H20</u>			OIL		
				13.55			17.97		
	Liquid Red	overed:		0			0		
	Total Spill	Liquid:		13.55			17.97		

Table 6:

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

Swiss Standard SN 670 010b, Characteristic Coefficients of soils, Association of Swiss Road and Traffic Engineers
 Das, B., Advanced Soil Mechanics. Taylor & Francis, London & New York, 2008.
 Hough, B., Basic soil engineering. Ronald Press Company, New York, 1969.
 Terzaghi, K., Peck, R., and Mesri, G., Soil Mechanics in Engineering Practice. Wiley, New York, 1996.

Obrzud R. & Truty, A.THE HARDENING SOIL MODEL - A PRACTICAL GUIDEBOOK Z SOILPC 100701 report, revised 31.01.2012

Citation

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

Remediation/Closure

Commencement Date: November 07, 2022

Completion Date: April 11, 2023

The following remedial activities are in accordance with 19.15.29.12 NMAC. Remedial activities took place at the Rum Point State #002 production line approximately 940 ft. northwest of the well pad. The release was discovered due to a visible 3 ft. diameter surface stain above the buried line (See Photos). Upon discovery, A vacuum truck bled down the production line.

Republic Backhoe Service, LLC. began excavation on November 8, 2022. The production line was exposed at the point of release, and a crew installed a repair clamp over the hole in the line. Below surface, the horizontal extents of the release expanded beyond the visible surface stain measurements. A 20 ft. by 20 ft. area was excavated to a depth of 4 feet, at which point chloride field test results were below NMOCD permissible levels. Notice of intent to sample was emailed to NMOCD on 11/29/2022 (See Correspondences). Bottom hole and sidewall soil samples were collected on 12/5/2022 and 12/6/2023 (See Attachments #9, #10, #11). Laboratory analysis was performed by Cardinal Labs in Hobbs, NM.

After reviewing laboratory results, it was determined that sidewall samples 1,2,3, and 4 were within the permissible levels of NMOCD closure criteria for the upper 4 ft. Bottom hole sample C also tested within permissible levels. Bottom hole samples A and B did not meet closure criteria for TPH. Sample B, located directly beneath the hole in the production line, also tested slightly above permissible chloride levels (See Table 4). The vertical extent of the release had not been reached.

On December 15, 2022, excavation continued to remediate sample areas A and B. Below 4 feet, soil composition was comprised of dense/compacted caliche. After breaking through a ½ ft. layer, crude oil stains became visible. Due to this, excavation was extended vertically an additional 4 ft. Bottom hole sample C, which had previously tested within permissible levels, was excavated ½ ft. in order to remove the compacted layer of caliche and re-evaluate for the presence of TPH/BTEX/Chlorides. The NMOCD was notified on 12/27/2022 that sampling had been scheduled for 12/29/2022. Soil samples were collected and delivered to Cardinal Labs for Analysis (See Attachments #12, #13).

The release occurred on privately owned land off the well pad. Due to these circumstances, Manzano LLC. remediated to the satisfaction of the landowner. The strictest closure criteria for TPH/BTEX/Benzene were extended to depths below 4 feet, regardless of depth to water being greater than 100 ft. Chloride closure criteria below 4 feet was based on depth to water greater than 100. Soil sample analysis will be evaluated accordingly moving forward.

Laboratory analysis concluded that sample 2W-1 contained TPH above permissible levels. This area previously met closure criteria. Bottom hole sample G, with walls 5W-1 and 5W-2, also contained elevated constituents of TPH. Bottom hole samples D and E tested slightly above the strictest closure criteria for TPH. All nonmentioned samples were within permissible levels (See Table 7).

Sample area G was then excavated to a depth of 9 ft. In doing so, sidewalls 5W-1 and 5W-2 were excavated. Sample areas D, E, and F were excavated an additional 1 ft. Sidewall 2W-1 was excavated horizontally 2 ft.

Manzano, LLC. initially proposed replacing the damaged joint in the production line. Because of access issues due to the 9 ft. excavation depth, the upper 4 ft area of NW wall was benched. This allowed for easier access for crews and equipment. The benched area had met closure criteria on 12/05/2022 and 12/29/2022 (See Sample 1, 1W-1, 1W-2, 3W-1). The damaged joint was replaced, and supports were installed until the remediation was completed.

After a discussion with the private landowner, Manzano LLC took further action to ensure the integrity of the production line. The entire length of the line was uncovered and replaced with 2 7/8" flex line. Due to time constraints, an extension

of the 90-day time allowance for remediation was requested by Republic Backhoe Service, LLC. on 01/19/2023 (See Correspondences).

The northeast, southeast, and southwest sidewalls were also excavated an additional 2 ft. horizontally to meet expectations of the private landowner. The dimensions of the excavated area now measured 22 ft. X 24 ft. X 9. Notice of closure soil sampling was emailed to the NMOCD on 03/27/2023, but due to strong winds sampling was rescheduled. On 03/30/2023 the NMOCD was notified that closure sampling was rescheduled for 04/05/2023. Bottom hole and sidewall samples were collected and delivered to Cardinal Labs (See Attachment #14, #15).

All samples met closure criteria. TPH/BTEX/Benzene were not detected in any closure sample results (See Table 8). Throughout the duration of the remediation, a total of 254 cubic yards of contaminated material were hauled to Gandy Marley Disposal, an NMOCD approved disposal site.

Republic Backhoe Service LLC. began hauling in backfill material on 04/07/2023. A total of 220 cubic yards of caliche was backfilled in the bottom 5 ft. The upper 4 ft. was backfilled with 80 cubic yards of topsoil. Backfill material was hauled from the landowner's pit. On 04/11/2023 remediation of the production line release was completed. The surface will be seeded with a warm mixture seed upon approval of the landowner.

Revegetation and Noxious Weed Management

Seed Mixture: Warm Season SSR Grass Seed Mix 350 Seed Rate: Acre: 25 lbs./ Acre

Method of Dispersal: Seed mixture will be mechanically dispersed. Photos will be taken of the seed mixture bags, and all seeding activities. A total of 5 lbs. of seed mixture will be dispersed at the location.

Follow up Monitoring Plan: The location will be monitored in the late summer. At that time, evaluation of growth in the area will determine if reseeding will be necessary. The area will also be monitored for noxious weeds. The area is small enough to rid any noxious weeds mechanically.

ne land

Eric Garcia Republic Backhoe Service, LLC.

Table 7:

Sample	Depth (ft.)	Chloride	BTEX	ТРН	Soil	Date	GPS	
ID.		(mg/kg)	(mg/kg)	(mg/kg)	Classification			
D	8'	352	<0.300	101.5	GM	12/29/2023	33.137762, -103.165147	
E	8'	320	<0.300	146.9	GM	12/29/2023	33.137745, -103.165135	
F	8'	448	<0.300	17.9	GM	12/29/2023	33.137729, -103.165125	
G	4 1⁄2'	432	<0.300	812.4	GM	12/29/2023	33.137732, -103.165161	
1W-1	4'	16.0	<0.300	<10.0	ML	12/29/2023	33.137771, -103.165154	NW Wall
1W-2	4'-8'	400	<0.300	18.4	GM	12/29/2023		NW Wall
2W-1	4'	32.0	<0.300	764	ML	12/29/2023	33.137754, -103.165117	NE Wall
2W-2	4'	48.0	<0.300	15.0	ML	12/29/2023		NE Wall
2W-3	4'-8'	2520	<0.300	<10.0	GM	12/29/2023		NE Wall
2W-4	4'-8'	1280	<0.300	<10.0	GM	12/29/2023		NE Wall
3W-1	4'	32.0	<0.300	<10.0	ML	12/29/2023	33.137758, -103.165181	NW Wall
3W-2	4'	32.0	<0.300	<10.0	ML	12/29/2023	33.137726, -103.165172	SW Wall
3W-3	4'	<16.0	<0.300	<10.0	ML	12/29/2023	33.137708, -103.165145	SE Wall
4W-1	4'	272	<0.300	<10.0	ML	12/29/2023	33.137720, -103.165118	SE Wall
4W-2	4'-8'	1220	<0.300	<10.0	GM	12/29/2023		SE Wall
5W-1	4'-8'	512	0.982	840.2	GM	12/29/2023	33.137726, -103.165143	SW Inner Wall
5W-2	4'-8'	1470	1.22	1,241.2	GM	12/29/2023	33.137746, -103.165159	SW Inner Wall

Table 8:

Closure Samples

Sample	Depth	Chloride	BTEX	TPH	Soil	Date	GPS
ID	(ft.)	(mg/kg)	(mg/kg)	(mg/kg)	Classification		
Α	9′	592	<0.300	<10.0	GM	04/05/2023	33.137748, -103.165123
В	9′	688	<0.300	<10.0	GM	04/05/2023	33.137716, -103.165144
С	9′	400	<0.300	<10.0	GM	04/05/2023	33.137733, -103.165156
D	9′	608	<0.300	<10.0	GM	04/05/2023	33.137751, -103.165166
1	4'-9'	656	<0.300	<10.0	GM	04/05/2023	33.137721, -103.165177 SW Wall
2	4'-9'	816	<0.300	<10.0	GM	04/05/2023	33.137714, -103.165122 SE Wall
3	4'-9'	960	<0.300	<10.0	GM	04/05/2023	33.137757, -103.165110 NE Wall
4	4′	160	<0.300	<10.0	ML	04/05/2023	33.137721, -103.165177 SW Wall
5	4'-9'	800	<0.300	<10.0	GM	04/05/2023	33.137767, -103.165161 NW Wall
6	4′	416	<0.300	<10.0	ML	04/05/2023	33.137757, -103.165110 NE Wall
7	4′	384	<0.300	<10.0	ML	04/05/2023	33.137714, -103.165122 SE Wall

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C-141

District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 State of New Mexico Energy Minerals and Natural Resources Department

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

)

Incident ID	NAPP2232236458
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Manzano, LLC.	OGRID 231429
Contact Name Mike Hanagan	Contact Telephone (575) 623-1996 Ext: 310
Contact email mike@manzanoenergy.com	Incident # (assigned by OCD) # nAPP2232236458
Contact mailing address P.O. Box 1737, Roswell, NM 88202	

Location of Release Source

(NAD 83 in decimal degrees to 5 decimal places)

Longitude -103.165143

Latitude 33.137702

Site Name Rum Point State #002	Site Type Production Flow Line
Date Release Discovered 10/24/2022	API# (<i>if applicable</i>) 30-025-36590

Unit Letter	Section	Township	Range	County
А	02	14S	37E	Lea

Surface Owner: State Federal Tribal Private (Name: Alexander Ranch, LLC.

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

Crude Oil	Volume Released (bbls) 18	Volume Recovered (bbls) 0
Produced Water	Volume Released (bbls) 14	Volume Recovered (bbls) 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

Pin-sized hole in underground 2 7/8" steel production line due to corrosion on the joint.

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Oil Conservation Division

Incident ID	NAPP2232236458
District RP	
Facility ID	
Application ID	

Was this a major	If YES, for what reason(s) does the responsible party consider this a major release?			
release as defined by 19.15.29.7(A) NMAC?	32 bbls total of produced water and crude oil were released from the production line.			
Ves 🗌 No				
If YES, was immediate ne	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?			
On 10/24/2022, the NMOC	D notified Manzano LLC. of a stain above the production line. Notice of release was filed with on 11/18/2022.			

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

 \checkmark The source of the release has been stopped.

I The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Mike Hanagan	Title:		
Signature:	Date:		
email:mike@manzanoenergy.com	Telephone: (575) 632-1996 Ext: 310		
OCD Only			
Received by: Jocelyn Harimon	Date:03/27/2023_		

		1/27/202	11.44.70 47	***** LIQU	***** LIQUID SPILLS - VOLUME CALCULATIONS *****		NAPP2232236458				
Keceiv	ea by OCD.	: 4/24/202:	8 11:14:48 A	02 Production Li	ne	Date of	f Discovery: 1	0/24/2022		Fagenge	01 458
						Sit	te Soil Type:	Loam/Calich	<u>ne</u>		
	Deilur		L1 BBLs Oil 9 E								
	Dally P	roduction		DDLS Water							
		Total Ar	ea Calculations	5							
Total Su	rface Area	V	/et Soil Depth (I	n) Oil (%)	H2O (%)	Soil C	lass. Porosi	ty%			
Upper 4'	50		48	57	43	ML	21				
Lower 4'	225		48	57	43	GM	15				
Blank	0		0	0	0	0	0				
Saturated S	oil Volume	calculation	s:	H2O			OIL				
Upper 4'		200.00		3.22			4.26				
Lower 4'		900		10.34			13.70				
Blank		0.00		0.00			0.00				
Total Solid/	Liquid Volu	ume:									
		Volumes S	pilled	H20			OIL				
				13.55			17.97				
	Liquid Rec	overed:		0			0				
	Tatal Call	1 i ann i al c		10.55			17.07	,			
	Total Spill	Liquia:		13.55			17.97	/			
- Release	ed to Imagi	ing: 3/17/2	023 9:469106	4 <i>M1</i>							•

District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3470 Fax: (505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

CONDITIONS

Operator:	OGRID:
MANZANO LLC	231429
P.O. Box 1737	Action Number:
Roswell, NM 88202	200721
	Action Type:
	[C-141] Release Corrective Action (C-141)
CONDITIONS	

CONDITIONS

Created By		Condition Date
jharimon	None	3/27/2023

Page 15eof 138

Action 200721

Received by OCD: 4/24/2023 11:14:48 AM Form C-141 State of New Mexico

Oil Conservation Division

	Page 16 of 13	38
Incident ID	NAPP2308354642	
District RP		
Facility ID		
Application ID		

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>120</u> (ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🛛 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🛛 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🔽 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🛛 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🗹 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🛛 No
Are the lateral extents of the release within a 100-year floodplain?	🖉 Yes 🗌 No
Did the release impact areas not on an exploration, development, production, or storage site?	🗹 Yes 🗌 No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: Each of the following items must be included in the report.

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
 Field data
- \checkmark Data table of soil contaminant concentration data
- $\overline{\mathbf{V}}$ Depth to water determination
- Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Received by OCD: 4/24	4/2023 11:14:48 AM State of New Mexico			Page 17 of 138
			Incident ID	NAPP2308354642
Page 4	Oil Conservation Division	Oil Conservation Division		
			Facility ID	
			Application ID	
regulations all operators public health or the env failed to adequately inv addition, OCD acceptar and/or regulations. Printed Name: Signature: email:john@m	e information given above is true and complete to the s are required to report and/or file certain release not vironment. The acceptance of a C-141 report by the or restigate and remediate contamination that pose a thr nee of a C-141 report does not relieve the operator of John Thompson	ifications and perform co OCD does not relieve the eat to groundwater, surfa f responsibility for comp	prrective actions for release operator of liability sho ce water, human health liance with any other fee esident - Production	ases which may endanger ould their operations have or the environment. In leral, state, or local laws
OCD Only Received by:J	ocelyn Harimon	Date:04	/24/2023	

Page 6

Oil Conservation Division

	Page 18 of 13
Incident ID	NAPP2308354642
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

<u>Closure Report Attachment Checklist</u>: Each of the following items must be included in the closure report.

A scaled site and sampling diagram as described in 19.15.29.11 NMAC

Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

 \square Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: John Thompson	Title: Vise President - Production				
Signature:	Date: 4/24/2023				
email: john@manzanoenergy.com	Telephone: 585-623-1996				
OCD Only					
Received by: Jocelyn Harimon	Date: 01/24/2023				
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.					
Closure Approved by: <u>Nelson Velez</u> Printed Name: Nelson Velez	Date:07/17/2023				
Printed Name: Nelson Velez	Title: Environmental Specialist – Adv				

•

Attachments

Attachment #1:



Attachment #2:



Attachment #3:

Scientific data near [33.13958,-103.23334]

Search area extends approximately 1.0 km east-west and 1.0 km north-south.

Narrower Wider JSON XML

Geographic context		
Counties, states, countries, continents, or o	oceans	
Lea	county	
New Mexico	state	
United States	country	
North America	continent	
Land	continent	
Map quadrangles, from USGS or Canadiar	INTS	
Prairieview NW	quadrangle 1:24,000 scale	
Tatum	quadrangle 1:100,000 scale	
Brownfield	quadrangle 1:250,000 scale	
Watershed boundaries (USGS hydrologic u	units)	
Mustang Draw	hydrologic unit	
Upper Colorado	hydrologic accounting unit	
Upper Colorado	hydrologic subregion	
Texas-Gulf	hydrologic region	

Geology of US states

Digital geologic maps of the US states with consistent lithology, age, GIS database structure, and format Database Home					
Unit	State	Lithology			
Ogallala Formation	NM	Lower Pliocene to middle Miocene			

Received by OCD: 4/24/2023 11:14:48 AM

Attachment #4:

Ogallala Formation

.....

Alluvial and eolian deposits, and petrocalcic soils of the southern High Plains. Locally includes Qoa.

State	New Mexico			
Name	Ogallala Formation			
Geologic age	Lower Pliocene to middle Miocene			
Lithologic constituents	Major Unconsolidated > Coarse-detrital > Sand (Alluvial, Eolian) GEOLEX Minor Sedimentary > Carbonate (Calcareous) petrocalcic soils of the southern High Plains; mark			
References	Green, G.N., Jones, G.E., and Anderson, O.J., 1997, The Digital Geologic Map of New Mexico in ARC/INFO Format: U.S. Geological Survey Open-File Report 97-0052, 9 p., scale 1:500,000. https://pubs.er.usgs.gov/publication/ofr9752			
	USGS Geologic Names lexicon found at: http://ngmdb.usgs.gov/Geolex/ https://ngmdb.usgs.gov/Geolex/search			
NGMDB product	NGMDB product page for 22974			
Counties	Chaves - Colfax - Curry - DeBaca - Eddy - Guadalupe - Harding - Lea - Lincoln - Mora - Quay - Roosevelt - San Miguel - Torrance - Unio			

Attachment #5:



Attachment #6:



New Mexico Office of the State Engineer Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)			(NAD83 1	JTM in meters)				
Well Tag	POD	Number	Q64 Q1	6 Q4	Sec	Tws	Rng	Х	Y	
	L 0	0389 S2		2	02	14S	37E	671003	3667976* 🌍	
Driller Lice	ense:	1082	Driller Co	mpar	ıy:	SPE	ARS, J	ACK DRII	LING CO.	
Driller Nar	ne:	SPEARS, JACK	(LD)							
Drill Start	Date:	02/19/1996	Drill Finis	h Dat	te:	0	2/26/199	96 P	lug Date:	
Log File Da	ate:	03/05/1996	PCW Rev	Date	:	1	2/24/199	97 <mark>S</mark>	ource:	Shallow
Pump Type	e:	SUBMER	Pipe Disch	arge	Size	: 6		E	stimated Yield:	500 GPM
Casing Size	e:	12.75	Depth We	11:		3	00 feet	D	epth Water:	60 feet *
	Wate	er Bearing Stratif	ications:	Te	op 1	Bottom	Desci	ription		
				13	36	145	Sands	stone/Grave	el/Conglomerate	
				2	15	260	Sands	stone/Grave	el/Conglomerate	
Casing Perforations:		orations:	Т	ор 🗄	Bottom					
				22	20	300				

*UTM location was derived from PLSS - see Help

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

2/14/23 2:32 PM

POINT OF DIVERSION SUMMARY

*Private landowner Matt Alexander confirmed current depth to water of POD L 00389-S2 at 120' Bgs.

Attachment #7:



Attachment #8:



Attachment #9:





Received by OCD: 4/24/2023 11:14:48 AM

Attachment #11:



SW

Attachment #12:



Attachment #13



SW

Attachment #14:



Attachment #15:



Attachment #16:

Stename Rum Point State #2 Date 11/29/22-production Line

Soil Profile

Top soil:	me	1
Top soil: Sands, sild, day		2
		3
Caliche		4
Gravel, seinels	GM	5
		6
		7
		8
		g
		10
		ц
		12
		13
		14

SteName: Rum Point State 2 late: 17.127/2022 Production Line

Soil Profile

Description	Soil	ft. bgs
Top Soil	ML	1
		1
		3
		4
Compacted call she	1	5 Dense, liftu sand
Calicho	Gm	⁶ gravel/sands
		1
		8
		9
		10
		11
		12
		13
	1	14
Correspondences

Tue, Nov 29, 2022, 3:55 PM 🔥 🕤 🗄

Nichole Calahan <republiconecalls@gmail.com> to OCD.Enviro, john

Good afternoon,

N

In regard to incident # nAPP2232236458, soil sampling has been scheduled for 12/05/2022. Republic Backhoe Service, LLC. will be collecting samples on behalf of Manzano Energy, LLC. at Rum Point State #002 production line. It is our intent to use the samples for closure. If you have any questions, please contact Eric Garcia at (575) 631-0131.

Thank you.

Nichole Calahan



Ceceived by OCDP. 4724/2023 919.14.48 Ammrd.nm.gov> to Michael, Jennifer, me ▼

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Jocelyn Harimon • Environmental Specialist Environmental Bureau EMNRD - Oil Conservation Division 1220 South St. Francis Drive | Santa Fe, NM 87505 (505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov http:// www.emnrd.nm.gov



From: Nichole Calahan <<u>republiconecalls@gmail.com</u>> Sent: Tuesday, November 29, 2022 3:55 PM To: Enviro, OCD, EMNRD <<u>OCD.Enviro@emnrd.nm.gov</u>> Cc: john@manzanoenergy.com Subject: [EXTERNAL] Notice of Sampling

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good afternoon,

In regard to incident # nAPP2232236458, soil sampling has been scheduled for 12/05/2022. Republic Backhoe Service, LLC. will be collecting samples on behalf of Manzano Energy, LLC. at Rum Point State #002 production line. It is our intent to use the samples for closure. If you have any questions, please contact Eric Garcia at (575) 631-0131.

Tue, Nov 29, 2022, 4:06 PM

Page 39 of 138

Released to Imaging: 7/17/2023 9:46:10 AM

Thank you

Received by OCD 4227202 1994.48 XM

Tue, Dec 27, 2022, 11:29 AM 🔥 🕤 🗄

Nichole Calahan <republiconecalls@gmail.com> to OCD.Enviro, john -

Good morning,

N

In regard to incident # nAPP2232236458, additional soil sampling has been scheduled for 12/29/2022. It is our intent to use the samples for closure. Republic Backhoe Service, LLC. will be collecting samples on behalf of Manzano Energy, LLC. at Rum Point State #002 production line.

The excavated area was previously sampled on 12/05/2022. After receiving those results, the area was further excavated. If you have any questions, please contact Eric Garcia at (575) 631-0131.

Thank you.

Nichole Calahan



to Michael, Jennifer, me -

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Jocelyn Harimon • Environmental Specialist Environmental Bureau EMNRD - Oil Conservation Division 1220 South St. Francis Drive | Santa Fe, NM 87505 (505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov http:// www.emnrd.nm.gov



From: Nichole Calahan <<u>republiconecalls@gmail.com</u>> Sent: Tuesday, December 27, 2022 11:30 AM To: Enviro, OCD, EMNRD <<u>OCD.Enviro@emnrd.nm.gov</u>>; john@manzanoenergy.com Subject: [EXTERNAL] Notice of Sampling

Released to the sing and the sing and the state of the second sec

Thu, Jan 19, 2:12 PM 🕁 🕤 🚦

Good afternoon,

to OCD.Enviro 🔻

N

Nichole Calahan <republiconecalls@gmail.com>

On behalf of Manzano Energy LLC, Republic Backhoe Service LLC is requesting an extension of the 90 day time allowance for incident number nAPP2232236458, which will be exhausted on 01/24/2023.

The release was caused by corrosion resulting in a pin-sized hole in the production line from Rum Point State #002 to Rum Point State #001 Battery. The initial plan was to remediate the affected soil and replace the damaged joint. To avoid future incidents, Manzano Energy LLC has since decided to uncover the production line (approximately 1,450 ft) and replace the line in its entirety. With this, we are requesting an additional 60 days to complete the work and submit our closure report.

Thank you.

Nichole Calahan

Thu, Jan 19, 4:26 PM 🕁 🕤

Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov> to me, Michael,, Jocelyn,, Robert, ▼

Hello Nichole

OCD approves your request for a 90-day extension to 4/24/23 to submit the closure report. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thanks, Jennifer Nobui

From: Nichole Calahan <<u>republiconecalls@gmail.com</u>> Sent: Thursday, January 19, 2023 2:12 PM To: Enviro, OCD, EMNRD <<u>OCD.Enviro@emnrd.nm.gov</u>> Subject: [EXTERNAL] Request for Extension: Incident nAPP2232236458

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good afternoon,

On behalf of Manzano Energy LLC, Republic Backhoe Service LLC is requesting an extension of the 90 day time allowance for incident number nAPP2232236458, which will be exhausted on 01/24/2023.

The release was caused by corrosion resulting in a pin-sized hole in the production line from Rum Point State #002 to Rum Point State #001 Battery. The initial plan was to remediate the affected soil and replace the damaged joint. To avoid future incidents, Manzano Energy LLC has since decided to uncover the production line (approximately 1,450 ft) and replace the line in its entirety. With this, we are requesting an additional 60 days to complete the work and submit our closure report.

Received by OCD. 429/2023 1194.48 XM



Nichole Calahan <republiconecalls@gmail.com> to OCD.Enviro, john, Mike ▼

Good morning,

In regard to incident # nAPP2308354642, soil sampling has been scheduled for 03/31/2023. It is our intent to use the samples for closure. Republic Backhoe Service, LLC. will be collecting samples on behalf of Manzano, LLC. at the Rum Point State #002 production line.

Thank you.

Nichole Calahan

Republic Backhoe Service, LLC. 47 E. Dickens Rd Lovington, NM 88260 (575) 602-4251



Page 44 of 138

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Mon, Mar 27, 9:34 AM 🔥 🕤 🚦



Nichole,

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

JH

Jocelyn Harimon • Environmental Specialist Environmental Bureau EMNRD - Oil Conservation Division 1220 South St. Francis Drive | Santa Fe, NM 87505 (505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov http:// www.emnrd.nm.gov



From: Nichole Calahan <<u>republiconecalls@gmail.com</u>> Sent: Monday, March 27, 2023 9:35 AM To: Enviro, OCD, EMNRD <<u>OCD.Enviro@emnrd.nm.gov</u>>; john@manzanoenergy.com; Mike Hanagan <<u>mike@manzanoenergy.com</u>> Subject: [EXTERNAL] Notice of Sampling

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good morning,

In regard to incident # nAPP2308354642, soil sampling has been scheduled for 03/31/2023. It is our intent to use the samples for closure. Republic Backhoe Service, LLC. will be collecting samples on behalf of Manzano, LLC. at the Rum Point State #002 production *Released to Imaging: 7/17/2023 9:46:10 AM* Receiverk by H@CDy=4/24/2023 11:14:48 AM to John, me ▼

> From: <u>OCDOnline@state.nm.us</u> <<u>OCDOnline@state.nm.us</u>> Sent: Friday, March 24, 2023 3:11 PM To: Mike Hanagan <<u>mike@manzanoenergy.com</u>> Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 200520

To whom it may concern (c/o Michael Hanagan for MANZANO LLC),

The OCD has accepted the submitted *Notification of a release* (NOR), for incident ID (n#) nAPP2308354642, with the following conditions:

• When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.

Please reference nAPP2308354642, on all subsequent C-141 submissions and communications regarding the remediation of this release. NOTE: As of December 2019, NMOCD has discontinued the use of the "RP" number. If you have any questions regarding this application, or don't know why you have received this email, please contact us.

ocd.enviro@state.nm.us

New Mexico Energy, Minerals and Natural Resources Department 1220 South St. Francis Drive Santa Fe, NM 87505

Released to Imaging:) 7/17/2023 9/46 10 AM→ Forward

Nichole Calahan <republiconecalls@gmail.com>



.

Thu, Mar 30, 6:06 PM 🔥 🕤 🚦

to OCD.Enviro, john, Mike, mattdalexander@hotmail.com 👻

Good afternoon,

N

In regard to incident # nAPP2308354642, soil sampling was scheduled for tomorrow, 03/31/2023. The National Weather Service has issued a Red Flag Warning until 6:00 pm tomorrow, and due to the possibility of strong winds, sampling has been rescheduled for 04/05/2023.

Thank you.

Nichole Calahan





Nichole,

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

JH

Jocelyn Harimon • Environmental Specialist Environmental Bureau EMNRD - Oil Conservation Division 1220 South St. Francis Drive | Santa Fe, NM 87505 (505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov http://www.emnrd.nm.gov



From: Nichole Calahan <<u>republiconecalls@gmail.com</u>> Sent: Thursday, March 30, 2023 6:07 PM To: Enviro, OCD, EMNRD <<u>OCD.Enviro@emnrd.nm.gov</u>>; john@manzanoenergy.com</u>; Mike Hanagan <<u>mike@manzanoenergy.com</u>>; <u>mattdalexander@hotmail.com</u> Subject: [EXTERNAL] Soil Sampling: Rescheduled

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good afternoon,

In regard to incident # nAPP2308354642, soil sampling was scheduled for tomorrow, 03/31/2023. The National Weather Service has issued a Red Flag Warning until 6:00 pm tomorrow, and due to the possibility of strong winds, sampling has been rescheduled for *Released to Thaging: 7/17/2023 9:46:10 AM*

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Photos






































































Laboratory Analysis



December 13, 2022

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

RE: RUM POINT STATE #002 PRODUCTION LINE

Enclosed are the results of analyses for samples received by the laboratory on 12/06/22 11:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	12/06/2022	Sampling Date:	12/05/2022
Reported:	12/13/2022	Sampling Type:	Soil
Project Name:	RUM POINT STATE #002 PRODUCTION I	Sampling Condition:	Cool & Intact
Project Number:	NAPP2232236458	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: A (H225720-01)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2022	ND	2.10	105	2.00	3.22	
Toluene*	<0.050	0.050	12/09/2022	ND	2.11	105	2.00	2.21	
Ethylbenzene*	<0.050	0.050	12/09/2022	ND	2.07	103	2.00	3.59	
Total Xylenes*	<0.150	0.150	12/09/2022	ND	6.41	107	6.00	3.86	
Total BTEX	<0.300	0.300	12/09/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 %	69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	12/08/2022	ND	432	108	400	3.64	
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	12/08/2022	ND	180	89.9	200	11.2	
DRO >C10-C28*	175	10.0	12/08/2022	ND	175	87.6	200	15.5	
EXT DRO >C28-C36	24.7	10.0	12/08/2022	ND					
Surrogate: 1-Chlorooctane	95.9 9	45.3-16	1						
Surrogate: 1-Chlorooctadecane	116 %	6 46.3-17	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	12/06/2022	Sampling Date:	12/05/2022
Reported:	12/13/2022	Sampling Type:	Soil
Project Name:	RUM POINT STATE #002 PRODUCTION	Sampling Condition:	Cool & Intact
Project Number:	NAPP2232236458	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: B (H225720-02)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2022	ND	2.10	105	2.00	3.22	
Toluene*	0.164	0.050	12/09/2022	ND	2.11	105	2.00	2.21	
Ethylbenzene*	0.453	0.050	12/09/2022	ND	2.07	103	2.00	3.59	
Total Xylenes*	3.20	0.150	12/09/2022	ND	6.41	107	6.00	3.86	
Total BTEX	3.82	0.300	12/09/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	181	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	12/08/2022	ND	432	108	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*	77.1	10.0	12/08/2022	ND	180	89.9	200	11.2	
DRO >C10-C28*	1160	10.0	12/08/2022	ND	175	87.6	200	15.5	
EXT DRO >C28-C36	177	10.0	12/08/2022	ND					
Surrogate: 1-Chlorooctane	112 9	45.3-16	1						
Surrogate: 1-Chlorooctadecane	127	% 46.3-17	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	12/06/2022	Sampling Date:	12/05/2022
Reported:	12/13/2022	Sampling Type:	Soil
Project Name:	RUM POINT STATE #002 PRODUCTION I	Sampling Condition:	Cool & Intact
Project Number:	NAPP2232236458	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: C (H225720-03)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2022	ND	2.10	105	2.00	3.22	
Toluene*	<0.050	0.050	12/09/2022	ND	2.11	105	2.00	2.21	
Ethylbenzene*	<0.050	0.050	12/09/2022	ND	2.07	103	2.00	3.59	
Total Xylenes*	<0.150	0.150	12/09/2022	ND	6.41	107	6.00	3.86	
Total BTEX	<0.300	0.300	12/09/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 9	69.9-14	0						
Chloride, SM4500Cl-B	ide, SM4500Cl-B mg/kg			Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	12/08/2022	ND	432	108	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	12/08/2022	ND	194	96.9	200	0.719	
DRO >C10-C28*	83.1	10.0	12/08/2022	ND	185	92.4	200	7.07	
EXT DRO >C28-C36	<10.0	10.0	12/08/2022	ND					
Surrogate: 1-Chlorooctane	89.9	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	91.3	% 46.3-17	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

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

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Received by OCD: 4/24/2023 11:14:48 AM



December 13, 2022

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

RE: RUM POINT STATE #002 PRODUCTION LINE

Enclosed are the results of analyses for samples received by the laboratory on 12/06/22 12:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	12/06/2022	Sampling Date:	12/06/2022
Reported:	12/13/2022	Sampling Type:	Soil
Project Name:	RUM POINT STATE #002 PRODUCTION I	Sampling Condition:	Cool & Intact
Project Number:	NAPP2232236458	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: 1 (H225721-01)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2022	ND	2.10	105	2.00	3.22	
Toluene*	<0.050	0.050	12/09/2022	ND	2.11	105	2.00	2.21	
Ethylbenzene*	<0.050	0.050	12/09/2022	ND	2.07	103	2.00	3.59	
Total Xylenes*	<0.150	0.150	12/09/2022	ND	6.41	107	6.00	3.86	
Total BTEX	<0.300	0.300	12/09/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	12/08/2022	ND	432	108	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	12/08/2022	ND	194	96.9	200	0.719	
DRO >C10-C28*	<10.0	10.0	12/08/2022	ND	185	92.4	200	7.07	

ND



<10.0

10.0

Cardinal Laboratories

EXT DRO >C28-C36

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	12/06/2022	Sampling Date:	12/06/2022
Reported:	12/13/2022	Sampling Type:	Soil
Project Name:	RUM POINT STATE #002 PRODUCTION I	Sampling Condition:	Cool & Intact
Project Number:	NAPP2232236458	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: 2 (H225721-02)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2022	ND	2.10	105	2.00	3.22	
Toluene*	<0.050	0.050	12/09/2022	ND	2.11	105	2.00	2.21	
Ethylbenzene*	<0.050	0.050	12/09/2022	ND	2.07	103	2.00	3.59	
Total Xylenes*	<0.150	0.150	12/09/2022	ND	6.41	107	6.00	3.86	
Total BTEX	<0.300	0.300	12/09/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	12/08/2022	ND	432	108	400	3.64	
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	12/08/2022	ND	194	96.9	200	0.719	
DRO >C10-C28*	<10.0	10.0	12/08/2022	ND	185	92.4	200	7.07	
EXT DRO >C28-C36	<10.0	10.0	12/08/2022	ND					
Surrogate: 1-Chlorooctane	88.5	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	86.3	% 46.3-17	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	12/06/2022	Sampling Date:	12/06/2022
Reported:	12/13/2022	Sampling Type:	Soil
Project Name:	RUM POINT STATE #002 PRODUCTION I	Sampling Condition:	Cool & Intact
Project Number:	NAPP2232236458	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: 3 (H225721-03)

BTEX 8021B	mg/	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2022	ND	2.10	105	2.00	3.22	
Toluene*	<0.050	0.050	12/09/2022	ND	2.11	105	2.00	2.21	
Ethylbenzene*	<0.050	0.050	12/09/2022	ND	2.07	103	2.00	3.59	
Total Xylenes*	<0.150	0.150	12/09/2022	ND	6.41	107	6.00	3.86	
Total BTEX	<0.300	0.300	12/09/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	12/08/2022	ND	432	108	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	12/08/2022	ND	194	96.9	200	0.719	
DRO >C10-C28*	<10.0	10.0	12/08/2022	ND	185	92.4	200	7.07	
EXT DRO >C28-C36	<10.0	10.0	12/08/2022	ND					
Surrogate: 1-Chlorooctane	92.1	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	87.5	% 46.3-17	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	12/06/2022	Sampling Date:	12/06/2022
Reported:	12/13/2022	Sampling Type:	Soil
Project Name:	RUM POINT STATE #002 PRODUCTION I	Sampling Condition:	Cool & Intact
Project Number:	NAPP2232236458	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: 4 (H225721-04)

BTEX 8021B	mg/	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2022	ND	2.10	105	2.00	3.22	
Toluene*	<0.050	0.050	12/09/2022	ND	2.11	105	2.00	2.21	
Ethylbenzene*	<0.050	0.050	12/09/2022	ND	2.07	103	2.00	3.59	
Total Xylenes*	<0.150	0.150	12/09/2022	ND	6.41	107	6.00	3.86	
Total BTEX	<0.300	0.300	12/09/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	12/08/2022	ND	432	108	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	12/08/2022	ND	194	96.9	200	0.719	
DRO >C10-C28*	<10.0	10.0	12/08/2022	ND	185	92.4	200	7.07	
EXT DRO >C28-C36	<10.0	10.0	12/08/2022	ND					
Surrogate: 1-Chlorooctane	85.5	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	81.0	% 46.3-17	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	Manzak	The Energy	1	. 1	1	C					B	11	L TO	261 A 180				-	ANA	YSI	S RE	QUE	ST		
Project Manager	· Republic	Backhoe	Ser	(VI	ce	L	L	2	P.0	. #:															
Address: 니-	7 E. Dick	ens Rd.							Company: Manzano LLC																
city: Lovington State: NM Zip: 88260							Attr	1:J	or	n	Thon	npson													
Phone #: 575	5-631-01	31 Fax #:							Add	Ires	s: P	2.0	D. Pox	1737											
Project #:		Project Owner	r: m	la h	29	no	E	LC	City	r: R	605	u	sell							1.1					
Project Name:	Rum Point	State HOOZ	Pro	du	chi	'n	Lin	ne	Sta	te:	NY	n	Zip: 88	1202											
Project Location									Pho	one	#:5	57	5-840	.5797											
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† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

Received by OCD: 4/24/2023 11:14:48 AM



January 04, 2023

ERIC GARCIA MANZANO ENERGY PO BOX 1737

ROSWELL, NM 88202

RE: RUM POINT STATE #002 PRODUCTION LINE

Enclosed are the results of analyses for samples received by the laboratory on 12/30/22 10:52.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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



MANZANO ENERGY ERIC GARCIA PO BOX 1737 ROSWELL NM, 88202 Fax To: NOT GIVEN

Received:	12/30/2022	Sampling Date:	12/29/2022
Reported:	01/04/2023	Sampling Type:	Soil
Project Name:	RUM POINT STATE #002 PRODUCTION	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	NONE GIVEN		

Sample ID: 2 W - 1 (H226113-01)

BTEX 8021B	mg/	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	12/30/2022	ND	2.10	105	2.00	3.84	
Toluene*	<0.050	0.050	12/30/2022	ND	2.08	104	2.00	3.18	
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.06	103	2.00	3.13	
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.18	103	6.00	2.93	
Total BTEX	<0.300	0.300	12/30/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/03/2023	ND	400	100	400	3.92	
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	12/30/2022	ND	216	108	200	0.736	
DRO >C10-C28*	440	10.0	12/30/2022	ND	234	117	200	2.41	
EXT DRO >C28-C36	324	10.0	12/30/2022	ND					
Surrogate: 1-Chlorooctane	97.2	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	97.5	% 46.3-17	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



MANZANO ENERGY ERIC GARCIA PO BOX 1737 ROSWELL NM, 88202 Fax To: NOT GIVEN

Received:	12/30/2022	Sampling Date:	12/29/2022
Reported:	01/04/2023	Sampling Type:	Soil
Project Name:	RUM POINT STATE #002 PRODUCTION	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	NONE GIVEN		

Sample ID: 2 W - 2 (H226113-02)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/30/2022	ND	2.10	105	2.00	3.84	
Toluene*	<0.050	0.050	12/30/2022	ND	2.08	104	2.00	3.18	
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.06	103	2.00	3.13	
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.18	103	6.00	2.93	
Total BTEX	<0.300	0.300	12/30/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/03/2023	ND	400	100	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	12/30/2022	ND	216	108	200	0.736	
DRO >C10-C28*	15.0	10.0	12/30/2022	ND	234	117	200	2.41	
EXT DRO >C28-C36	<10.0	10.0	12/30/2022	ND					
Surrogate: 1-Chlorooctane	96.7	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	98.5	% 46.3-17	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



MANZANO ENERGY ERIC GARCIA PO BOX 1737 ROSWELL NM, 88202 Fax To: NOT GIVEN

Received:	12/30/2022	Sampling Date:	12/29/2022
Reported:	01/04/2023	Sampling Type:	Soil
Project Name:	RUM POINT STATE #002 PRODUCTION	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	NONE GIVEN		

Sample ID: 2 W - 3 (H226113-03)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/30/2022	ND	2.10	105	2.00	3.84	
Toluene*	<0.050	0.050	12/30/2022	ND	2.08	104	2.00	3.18	
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.06	103	2.00	3.13	
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.18	103	6.00	2.93	
Total BTEX	<0.300	0.300	12/30/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2520	16.0	01/03/2023	ND	400	100	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	12/30/2022	ND	216	108	200	0.736	
DRO >C10-C28*	<10.0	10.0	12/30/2022	ND	234	117	200	2.41	
EXT DRO >C28-C36	<10.0	10.0	12/30/2022	ND					
Surrogate: 1-Chlorooctane	94.0	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	94.1	% 46.3-17	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



MANZANO ENERGY ERIC GARCIA PO BOX 1737 ROSWELL NM, 88202 Fax To: NOT GIVEN

Received:	12/30/2022	Sampling Date:	12/29/2022
Reported:	01/04/2023	Sampling Type:	Soil
Project Name:	RUM POINT STATE #002 PRODUCTION	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	NONE GIVEN		

Sample ID: 2 W - 4 (H226113-04)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/30/2022	ND	2.10	105	2.00	3.84	
Toluene*	<0.050	0.050	12/30/2022	ND	2.08	104	2.00	3.18	
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.06	103	2.00	3.13	
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.18	103	6.00	2.93	
Total BTEX	<0.300	0.300	12/30/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1280	16.0	01/03/2023	ND	400	100	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	12/30/2022	ND	216	108	200	0.736	
DRO >C10-C28*	<10.0	10.0	12/30/2022	ND	234	117	200	2.41	
EXT DRO >C28-C36	<10.0	10.0	12/30/2022	ND					
Surrogate: 1-Chlorooctane	84.8	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	84.3	% 46.3-17	8						

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Celey D. Keene, Lab Director/Quality Manager



MANZANO ENERGY ERIC GARCIA PO BOX 1737 ROSWELL NM, 88202 Fax To: NOT GIVEN

Received:	12/30/2022	Sampling Date:	12/29/2022
Reported:	01/04/2023	Sampling Type:	Soil
Project Name:	RUM POINT STATE #002 PRODUCTION	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	NONE GIVEN		

Sample ID: 4 W - 2 (H226113-05)

BTEX 8021B	mg	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/30/2022	ND	2.10	105	2.00	3.84	
Toluene*	<0.050	0.050	12/30/2022	ND	2.08	104	2.00	3.18	
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.06	103	2.00	3.13	
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.18	103	6.00	2.93	
Total BTEX	<0.300	0.300	12/30/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1220	16.0	01/03/2023	ND	400	100	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	12/30/2022	ND	216	108	200	0.736	
DRO >C10-C28*	<10.0	10.0	12/30/2022	ND	234	117	200	2.41	
EXT DRO >C28-C36	<10.0	10.0	12/30/2022	ND					
Surrogate: 1-Chlorooctane	88.9	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	88.6	% 46.3-17	8						

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Celey D. Keene, Lab Director/Quality Manager



MANZANO ENERGY ERIC GARCIA PO BOX 1737 ROSWELL NM, 88202 Fax To: NOT GIVEN

Received:	12/30/2022	Sampling Date:	12/29/2022
Reported:	01/04/2023	Sampling Type:	Soil
Project Name:	RUM POINT STATE #002 PRODUCTION	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	NONE GIVEN		

Sample ID: 4 W - 1 (H226113-06)

BTEX 8021B	mg	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/30/2022	ND	2.10	105	2.00	3.84	
Toluene*	<0.050	0.050	12/30/2022	ND	2.08	104	2.00	3.18	
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.06	103	2.00	3.13	
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.18	103	6.00	2.93	
Total BTEX	<0.300	0.300	12/30/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	01/03/2023	ND	400	100	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	12/30/2022	ND	198	99.2	200	0.603	
DRO >C10-C28*	<10.0	10.0	12/30/2022	ND	215	107	200	0.554	
EXT DRO >C28-C36	<10.0	10.0	12/30/2022	ND					
Surrogate: 1-Chlorooctane	79.4	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	86.2	% 46.3-17	8						

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Celey D. Keene, Lab Director/Quality Manager



MANZANO ENERGY ERIC GARCIA PO BOX 1737 ROSWELL NM, 88202 Fax To: NOT GIVEN

Received:	12/30/2022	Sampling Date:	12/29/2022
Reported:	01/04/2023	Sampling Type:	Soil
Project Name:	RUM POINT STATE #002 PRODUCTION	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	NONE GIVEN		

Sample ID: 1 W - 1 (H226113-07)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/30/2022	ND	2.10	105	2.00	3.84	
Toluene*	<0.050	0.050	12/30/2022	ND	2.08	104	2.00	3.18	
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.06	103	2.00	3.13	
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.18	103	6.00	2.93	
Total BTEX	<0.300	0.300	12/30/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/03/2023	ND	400	100	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	12/30/2022	ND	198	99.2	200	0.603	
DRO >C10-C28*	<10.0	10.0	12/30/2022	ND	215	107	200	0.554	
EXT DRO >C28-C36	<10.0	10.0	12/30/2022	ND					
Surrogate: 1-Chlorooctane	69.2	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	73.9	% 46.3-17	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



MANZANO ENERGY ERIC GARCIA PO BOX 1737 ROSWELL NM, 88202 Fax To: NOT GIVEN

Received:	12/30/2022	Sampling Date:	12/29/2022
Reported:	01/04/2023	Sampling Type:	Soil
Project Name:	RUM POINT STATE #002 PRODUCTION	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	NONE GIVEN		

Sample ID: 1 W - 2 (H226113-08)

BTEX 8021B	mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS % Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/30/2022	ND	2.10	105	2.00	3.84	
Toluene*	<0.050	0.050	12/30/2022	ND	2.08	104	2.00	3.18	
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.06	103	2.00	3.13	
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.18	103	6.00	2.93	
Total BTEX	<0.300	0.300	12/30/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	01/03/2023	ND	400	100	400	3.92	
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	12/30/2022	ND	198	99.2	200	0.603	
DRO >C10-C28*	18.4	10.0	12/30/2022	ND	215	107	200	0.554	
EXT DRO >C28-C36	<10.0	10.0	12/30/2022	ND					
Surrogate: 1-Chlorooctane	70.9	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	76.6	% 46.3-17	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



MANZANO ENERGY ERIC GARCIA PO BOX 1737 ROSWELL NM, 88202 Fax To: NOT GIVEN

Received:	12/30/2022	Sampling Date:	12/29/2022
Reported:	01/04/2023	Sampling Type:	Soil
Project Name:	RUM POINT STATE #002 PRODUCTION	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	NONE GIVEN		

Sample ID: 5 W - 1 (H226113-09)

BTEX 8021B	mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS % Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/30/2022	ND	2.10	105	2.00	3.84	
Toluene*	0.052	0.050	12/30/2022	ND	2.08	104	2.00	3.18	
Ethylbenzene*	0.068	0.050	12/30/2022	ND	2.06	103	2.00	3.13	
Total Xylenes*	0.862	0.150	12/30/2022	ND	6.18	103	6.00	2.93	GC-NC1
Total BTEX	0.982	0.300	12/30/2022	ND					GC-NC1
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	01/03/2023	ND	400	100	400	3.92	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	40.2	10.0	12/30/2022	ND	198	99.2	200	0.603	
DRO >C10-C28*	699	10.0	12/30/2022	ND	215	107	200	0.554	
EXT DRO >C28-C36	101	10.0	12/30/2022	ND					
Surrogate: 1-Chlorooctane	76.5	% 45.3-16	51						
Surrogate: 1-Chlorooctadecane	96.6	% 46.3-17	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager


MANZANO ENERGY ERIC GARCIA PO BOX 1737 ROSWELL NM, 88202 Fax To: NOT GIVEN

Received:	12/30/2022	Sampling Date:	12/29/2022
Reported:	01/04/2023	Sampling Type:	Soil
Project Name:	RUM POINT STATE #002 PRODUCTION	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	NONE GIVEN		

Sample ID: 5 W - 2 (H226113-10)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/30/2022	ND	2.10	105	2.00	3.84	
Toluene*	<0.050	0.050	12/30/2022	ND	2.08	104	2.00	3.18	
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.06	103	2.00	3.13	
Total Xylenes*	1.22	0.150	12/30/2022	ND	6.18	103	6.00	2.93	GC-NC1
Total BTEX	1.22	0.300	12/30/2022	ND					GC-NC1
Surrogate: 4-Bromofluorobenzene (PID	106	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1470	16.0	01/03/2023	ND	400	100	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*	67.2	10.0	12/30/2022	ND	198	99.2	200	0.603	
DRO >C10-C28*	1010	10.0	12/30/2022	ND	215	107	200	0.554	
EXT DRO >C28-C36	164	10.0	12/30/2022	ND					
Surrogate: 1-Chlorooctane	83.8	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	108	% 46.3-17	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



MANZANO ENERGY ERIC GARCIA PO BOX 1737 ROSWELL NM, 88202 Fax To: NOT GIVEN

Received:	12/30/2022	Sampling Date:	12/29/2022
Reported:	01/04/2023	Sampling Type:	Soil
Project Name:	RUM POINT STATE #002 PRODUCTION	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	NONE GIVEN		

Sample ID: 3 W - 1 (H226113-11)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/30/2022	ND	2.10	105	2.00	3.84	
Toluene*	<0.050	0.050	12/30/2022	ND	2.08	104	2.00	3.18	
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.06	103	2.00	3.13	
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.18	103	6.00	2.93	
Total BTEX	<0.300	0.300	12/30/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/03/2023	ND	400	100	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	12/30/2022	ND	198	99.2	200	0.603	
DRO >C10-C28*	<10.0	10.0	12/30/2022	ND	215	107	200	0.554	
EXT DRO >C28-C36	<10.0	10.0	12/30/2022	ND					
Surrogate: 1-Chlorooctane	70.3	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	76.1	% 46.3-17	8						

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Celey D. Keene, Lab Director/Quality Manager



MANZANO ENERGY ERIC GARCIA PO BOX 1737 ROSWELL NM, 88202 Fax To: NOT GIVEN

Received:	12/30/2022	Sampling Date:	12/29/2022
Reported:	01/04/2023	Sampling Type:	Soil
Project Name:	RUM POINT STATE #002 PRODUCTION I	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	NONE GIVEN		

Sample ID: 3 W - 2 (H226113-12)

BTEX 8021B	mg/	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/30/2022	ND	2.10	105	2.00	3.84	
Toluene*	<0.050	0.050	12/30/2022	ND	2.08	104	2.00	3.18	
Ethylbenzene*	<0.050	0.050	12/30/2022	ND	2.06	103	2.00	3.13	
Total Xylenes*	<0.150	0.150	12/30/2022	ND	6.18	103	6.00	2.93	
Total BTEX	<0.300	0.300	12/30/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	′kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/03/2023	ND	400	100	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	12/30/2022	ND	198	99.2	200	0.603	
DRO >C10-C28*	<10.0	10.0	12/30/2022	ND	215	107	200	0.554	
EXT DRO >C28-C36	<10.0	10.0	12/30/2022	ND					
Surrogate: 1-Chlorooctane	58.4	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	63.3	% 46.3-17	8						

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Celey D. Keene, Lab Director/Quality Manager



MANZANO ENERGY ERIC GARCIA PO BOX 1737 ROSWELL NM, 88202 Fax To: NOT GIVEN

Received:	12/30/2022	Sampling Date:	12/29/2022
Reported:	01/04/2023	Sampling Type:	Soil
Project Name:	RUM POINT STATE #002 PRODUCTION	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	NONE GIVEN		

Sample ID: 3 W - 3 (H226113-13)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/03/2023	ND	1.98	99.1	2.00	1.10	
Toluene*	<0.050	0.050	01/03/2023	ND	2.09	105	2.00	2.78	
Ethylbenzene*	<0.050	0.050	01/03/2023	ND	2.03	101	2.00	4.30	
Total Xylenes*	<0.150	0.150	01/03/2023	ND	6.21	103	6.00	4.08	
Total BTEX	<0.300	0.300	01/03/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/03/2023	ND	400	100	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	12/30/2022	ND	198	99.2	200	0.603	
DRO >C10-C28*	<10.0	10.0	12/30/2022	ND	215	107	200	0.554	
EXT DRO >C28-C36	<10.0	10.0	12/30/2022	ND					
Surrogate: 1-Chlorooctane	66.5	% 45.3-16	51						
Surrogate: 1-Chlorooctadecane	73.6	% 46.3-17	8						

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Celey D. Keene, Lab Director/Quality Manager



MANZANO ENERGY ERIC GARCIA PO BOX 1737 ROSWELL NM, 88202 Fax To: NOT GIVEN

Received:	12/30/2022	Sampling Date:	12/29/2022
Reported:	01/04/2023	Sampling Type:	Soil
Project Name:	RUM POINT STATE #002 PRODUCTION	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	NONE GIVEN		

Sample ID: D (H226113-14)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/03/2023	ND	1.98	99.1	2.00	1.10	
Toluene*	<0.050	0.050	01/03/2023	ND	2.09	105	2.00	2.78	
Ethylbenzene*	<0.050	0.050	01/03/2023	ND	2.03	101	2.00	4.30	
Total Xylenes*	<0.150	0.150	01/03/2023	ND	6.21	103	6.00	4.08	
Total BTEX	<0.300	0.300	01/03/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	<i>98.3</i>	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	01/03/2023	ND	400	100	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	01/03/2023	ND	181	90.3	200	3.77	
DRO >C10-C28*	40.6	10.0	01/03/2023	ND	164	81.8	200	7.58	
EXT DRO >C28-C36	60.9	10.0	01/03/2023	ND					
Surrogate: 1-Chlorooctane	93.7	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	96.0	% 46.3-17	8						

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MANZANO ENERGY ERIC GARCIA PO BOX 1737 ROSWELL NM, 88202 Fax To: NOT GIVEN

Received:	12/30/2022	Sampling Date:	12/29/2022
Reported:	01/04/2023	Sampling Type:	Soil
Project Name:	RUM POINT STATE #002 PRODUCTION	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	NONE GIVEN		

Sample ID: E (H226113-15)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/03/2023	ND	1.98	99.1	2.00	1.10	
Toluene*	<0.050	0.050	01/03/2023	ND	2.09	105	2.00	2.78	
Ethylbenzene*	<0.050	0.050	01/03/2023	ND	2.03	101	2.00	4.30	
Total Xylenes*	<0.150	0.150	01/03/2023	ND	6.21	103	6.00	4.08	
Total BTEX	<0.300	0.300	01/03/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.2	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	01/03/2023	ND	400	100	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	01/03/2023	ND	181	90.3	200	3.77	
DRO >C10-C28*	91.8	10.0	01/03/2023	ND	164	81.8	200	7.58	
EXT DRO >C28-C36	55.1	10.0	01/03/2023	ND					
Surrogate: 1-Chlorooctane	88.5	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	91.8	% 46.3-17	8						

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MANZANO ENERGY ERIC GARCIA PO BOX 1737 ROSWELL NM, 88202 Fax To: NOT GIVEN

Received:	12/30/2022	Sampling Date:	12/29/2022
Reported:	01/04/2023	Sampling Type:	Soil
Project Name:	RUM POINT STATE #002 PRODUCTION I	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	NONE GIVEN		

Sample ID: F (H226113-16)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/03/2023	ND	1.98	99.1	2.00	1.10	
Toluene*	<0.050	0.050	01/03/2023	ND	2.09	105	2.00	2.78	
Ethylbenzene*	<0.050	0.050	01/03/2023	ND	2.03	101	2.00	4.30	
Total Xylenes*	<0.150	0.150	01/03/2023	ND	6.21	103	6.00	4.08	
Total BTEX	<0.300	0.300	01/03/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.4	% 69.9-14	0						
Chloride, SM4500Cl-B	M4500Cl-B mg/kg			d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	01/03/2023	ND	400	100	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	01/03/2023	ND	181	90.3	200	3.77	
DRO >C10-C28*	17.9	10.0	01/03/2023	ND	164	81.8	200	7.58	
EXT DRO >C28-C36	<10.0	10.0	01/03/2023	ND					
Surrogate: 1-Chlorooctane	90.4	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	92.0	% 46.3-17	8						

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Celey D. Keene, Lab Director/Quality Manager



MANZANO ENERGY ERIC GARCIA PO BOX 1737 ROSWELL NM, 88202 Fax To: NOT GIVEN

Received:	12/30/2022	Sampling Date:	12/29/2022
Reported:	01/04/2023	Sampling Type:	Soil
Project Name:	RUM POINT STATE #002 PRODUCTION	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	NONE GIVEN		

Sample ID: G (H226113-17)

BTEX 8021B	mg,	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/03/2023	ND	1.98	99.1	2.00	1.10	
Toluene*	<0.050	0.050	01/03/2023	ND	2.09	105	2.00	2.78	
Ethylbenzene*	<0.050	0.050	01/03/2023	ND	2.03	101	2.00	4.30	
Total Xylenes*	0.797	0.150	01/03/2023	ND	6.21	103	6.00	4.08	GC-NC1
Total BTEX	0.797	0.300	01/03/2023	ND					GC-NC1
Surrogate: 4-Bromofluorobenzene (PID	140	% 69.9-14	0						
Chloride, SM4500Cl-B	oride, SM4500Cl-B mg/kg			d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	01/03/2023	ND	400	100	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*	41.4	10.0	01/03/2023	ND	181	90.3	200	3.77	
DRO >C10-C28*	662	10.0	01/03/2023	ND	164	81.8	200	7.58	
EXT DRO >C28-C36	109	10.0	01/03/2023	ND					
Surrogate: 1-Chlorooctane	95.0	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	116 9	46.3-17	8						

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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 LCS recovery.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
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

Page 20 of 22

Released to Imaging: 7/17/2023 9:46:10 AM

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Project Manager:	Republic 13	action .) []	VIC				Con	npar	ny:R	epi	uble	Badch	e	~										
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CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 21 of 22

Company Name: Manzano Energy Project Manager: Republic Backhue Service LLC P.O. #: Address: 47 E. Dickens Rd Company: Republic Backhoe Address: 47 E. Dickens Rd City: Lovington State: NM Zip: 882400 Attn: Phone #: 575-631-0131 Fax #: Project Owner: Manzano City: Lovington Project Name: Project Location: Rum Point State: #002 Production Phone #: 575-631-0131 Project Location: Rum Point State: #002 Production Phone #: 575-631-0131 Project Location: Rum Point State: #002 Production Phone #: 575-631-0131 Sampler Name: Eric Garcia MATRIX PRESERV. SAMPLING	NALYSIS REQUEST
Address: 47 E. Dickens Ra City: Louington State: NM Zip: 882400 Phone #: 575-631-0131 Fax #: Address: 47 E. Dickens Project #: Project Owner: Manzano City: Louington Project Name: State: WMZip: 88240 Project Location: Rum Point State: #002 Production Phone #: 575-631-8131 Sampler Name: Line Frain MATRIX	
Address: 47 E. Dickens Ra City: Louington State: NM Zip: 882400 Phone #: 575-631-0131 Fax #: Address: 47 E. Dickens Project #: Project Owner: Manzano City: Louington Project Name: State: WMZip: 88240 Project Location: Rum Point State #002 Production Phone #: 575-631-8131 Sampler Name: Line Frax #: SAMPLING	2. 2. 2.
Address: 97E. Dickens Ra City: Louington State: NM Zip: 882400 Phone #: 575-031-0131 Fax #: Address: 47E. Dickens Project #: Project Owner: Manzano City: Louington State: Winzip: 88240 Project Name: State: #002 Production Project Location: Rum Point State: #002 Production Phone #: 575-031-0131 Sampler Name: Eric Garcia MATRIX PRESERV	
Phone #: 575-631-0131 Fax #: Project #: Project Name: Project Location: Rum Point State #002 Production Phone #: 575-631-0131 Project Location: Rum Point State #002 Production Phone #: 575-631-0131 Line Fax #: Sampler Name: Eric Carcia MATRIX PRESERV. SAMPLING	2. 2. 2.
Phone #: 575-631-0131 Fax #: Project #: Project Name: Project Location: Rum Point State #002 Production Phone #: 575-631-8131 Project Location: Rum Point State #002 Production Phone #: 575-631-8131 Line Fax #: Sampler Name: Eric Carcia MATRIX PRESERV. SAMPLING	2
Project #: State: W MZip: 88200 Project Name: State: W MZip: 88200 Project Location: Rum Point State #002 Production Phone #: 575-031-0131 Line Fax #: Sampler Name: Eric Garcia MATRIX PRESERV. SAMPLING	2. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
Project Name: Project Location: Rum Point State #002 Production Phone #: 575-631-8131 Line Fax #: Sampler Name: Eric Garcia MATRIX PRESERV. SAMPLING	2
Project Location: KUM POINT SUPERFORMER LINE Fax #: Sampler Name: Evic Garcia MATRIX PRESERV. SAMPLING	
Sampler Name: Eric Garcia MATRIX PRESERV. SAMPLING	
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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 the client for the PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in writing and received by Cardinal within 30 days after completion of the applicable	
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 paulo grine degree and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 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, 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, service. In no event shall Cardinal be liable for incidental or consequented by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	
service. In no event shall Caronian to nation the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any service services and the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any services and the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any services and the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any services and the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any services and the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any services and the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any services and the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any services and the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any services and the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any services and the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any services and the performance of services hereunder by Cardinal, regardless of the performance of services hereunder by Cardinal, regardless of the performance of services hereunder by Cardinal, regardless of the performance of services hereunder by Cardinal, regardless of the performance of the performance of services hereunder by Cardinal, regardless of the performance of the	ide Empil addross'
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Corrected Temp. °C / 8: Yes Yes Correction Factor 0.00	Nc No Corrected Temp. °C
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 22 of 22

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	(575) 595-2320 TAX	and the second s		-	-		-			RII	LTO	S. Contractor					ANAL	YSIS	RE	QUES	51		
Company Name:	Manzang	therg	K	,		11	6	P.0	#.	DIL													
Project Manager	: Republic Be	ackhoo J	Ser	UI	e	L	1		_	Ø		R. LL											
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FOR LAB USE ONLY			<u>.</u>			MATE			PRE	SERV.	GAIN		13										
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Page 120 of 138



April 06, 2023

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

RE: RUM POINT STATE #002 PRODUCTION LINE

Enclosed are the results of analyses for samples received by the laboratory on 04/06/23 8:22.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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



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

Received:	04/06/2023	Sampling Date:	04/05/2023
Reported:	04/06/2023	Sampling Type:	Soil
Project Name:	RUM POINT STATE #002 PRODUCTION	Sampling Condition:	Cool & Intact
Project Number:	NAPP2308354642	Sample Received By:	Shalyn Rodriguez
Project Location:	MANZANO H-12-T14-R37		

Sample ID: 1 (H231605-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/06/2023	ND	2.19	109	2.00	5.91	
Toluene*	<0.050	0.050	04/06/2023	ND	2.22	111	2.00	5.05	
Ethylbenzene*	<0.050	0.050	04/06/2023	ND	2.17	108	2.00	6.54	
Total Xylenes*	<0.150	0.150	04/06/2023	ND	6.79	113	6.00	7.67	
Total BTEX	<0.300	0.300	04/06/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500Cl-B	Analyze	d By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	04/06/2023	ND	448	112	400	7.41	
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	04/06/2023	ND	190	95.1	200	1.43	
DRO >C10-C28*	<10.0	10.0	04/06/2023	ND	187	93.7	200	0.441	
EXT DRO >C28-C36	<10.0	10.0	04/06/2023	ND					
Surrogate: 1-Chlorooctane	77.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.2	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/06/2023	Sampling Date:	04/05/2023
Reported:	04/06/2023	Sampling Type:	Soil
Project Name:	RUM POINT STATE #002 PRODUCTION	Sampling Condition:	Cool & Intact
Project Number:	NAPP2308354642	Sample Received By:	Shalyn Rodriguez
Project Location:	MANZANO H-12-T14-R37		

Sample ID: 2 (H231605-02)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/06/2023	ND	2.19	109	2.00	5.91	
Toluene*	<0.050	0.050	04/06/2023	ND	2.22	111	2.00	5.05	
Ethylbenzene*	<0.050	0.050	04/06/2023	ND	2.17	108	2.00	6.54	
Total Xylenes*	<0.150	0.150	04/06/2023	ND	6.79	113	6.00	7.67	
Total BTEX	<0.300	0.300	04/06/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	816	16.0	04/06/2023	ND	448	112	400	7.41	
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	04/06/2023	ND	190	95.1	200	1.43	
DRO >C10-C28*	<10.0	10.0	04/06/2023	ND	187	93.7	200	0.441	
EXT DRO >C28-C36	<10.0	10.0	04/06/2023	ND					
Surrogate: 1-Chlorooctane	108 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	113 9	% 49.1-14	8						

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*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/06/2023	Sampling Date:	04/05/2023
Reported:	04/06/2023	Sampling Type:	Soil
Project Name:	RUM POINT STATE #002 PRODUCTION	Sampling Condition:	Cool & Intact
Project Number:	NAPP2308354642	Sample Received By:	Shalyn Rodriguez
Project Location:	MANZANO H-12-T14-R37		

Sample ID: 3 (H231605-03)

BTEX 8021B	mg	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/06/2023	ND	2.19	109	2.00	5.91	
Toluene*	<0.050	0.050	04/06/2023	ND	2.22	111	2.00	5.05	
Ethylbenzene*	<0.050	0.050	04/06/2023	ND	2.17	108	2.00	6.54	
Total Xylenes*	<0.150	0.150	04/06/2023	ND	6.79	113	6.00	7.67	
Total BTEX	<0.300	0.300	04/06/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	960	16.0	04/06/2023	ND	448	112	400	7.41	
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	04/06/2023	ND	190	95.1	200	1.43	
DRO >C10-C28*	<10.0	10.0	04/06/2023	ND	187	93.7	200	0.441	
EXT DRO >C28-C36	<10.0	10.0	04/06/2023	ND					
Surrogate: 1-Chlorooctane	90.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.0	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/06/2023	Sampling Date:	04/05/2023
Reported:	04/06/2023	Sampling Type:	Soil
Project Name:	RUM POINT STATE #002 PRODUCTION	Sampling Condition:	Cool & Intact
Project Number:	NAPP2308354642	Sample Received By:	Shalyn Rodriguez
Project Location:	MANZANO H-12-T14-R37		

Sample ID: 4 (H231605-04)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/06/2023	ND	2.19	109	2.00	5.91	
Toluene*	<0.050	0.050	04/06/2023	ND	2.22	111	2.00	5.05	
Ethylbenzene*	<0.050	0.050	04/06/2023	ND	2.17	108	2.00	6.54	
Total Xylenes*	<0.150	0.150	04/06/2023	ND	6.79	113	6.00	7.67	
Total BTEX	<0.300	0.300	04/06/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	04/06/2023	ND	448	112	400	7.41	
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	04/06/2023	ND	190	95.1	200	1.43	
DRO >C10-C28*	<10.0	10.0	04/06/2023	ND	187	93.7	200	0.441	
EXT DRO >C28-C36	<10.0	10.0	04/06/2023	ND					
Surrogate: 1-Chlorooctane	99.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102 9	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/06/2023	Sampling Date:	04/05/2023
Reported:	04/06/2023	Sampling Type:	Soil
Project Name:	RUM POINT STATE #002 PRODUCTION	Sampling Condition:	Cool & Intact
Project Number:	NAPP2308354642	Sample Received By:	Shalyn Rodriguez
Project Location:	MANZANO H-12-T14-R37		

Sample ID: 5 (H231605-05)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/06/2023	ND	2.19	109	2.00	5.91	
Toluene*	<0.050	0.050	04/06/2023	ND	2.22	111	2.00	5.05	
Ethylbenzene*	<0.050	0.050	04/06/2023	ND	2.17	108	2.00	6.54	
Total Xylenes*	<0.150	0.150	04/06/2023	ND	6.79	113	6.00	7.67	
Total BTEX	<0.300	0.300	04/06/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	04/06/2023	ND	448	112	400	7.41	
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	04/06/2023	ND	190	95.1	200	1.43	
DRO >C10-C28*	<10.0	10.0	04/06/2023	ND	187	93.7	200	0.441	
EXT DRO >C28-C36	<10.0	10.0	04/06/2023	ND					
Surrogate: 1-Chlorooctane	85.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.3	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/06/2023	Sampling Date:	04/05/2023
Reported:	04/06/2023	Sampling Type:	Soil
Project Name:	RUM POINT STATE #002 PRODUCTION	Sampling Condition:	Cool & Intact
Project Number:	NAPP2308354642	Sample Received By:	Shalyn Rodriguez
Project Location:	MANZANO H-12-T14-R37		

Sample ID: 6 (H231605-06)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/06/2023	ND	2.19	109	2.00	5.91	
Toluene*	<0.050	0.050	04/06/2023	ND	2.22	111	2.00	5.05	
Ethylbenzene*	<0.050	0.050	04/06/2023	ND	2.17	108	2.00	6.54	
Total Xylenes*	<0.150	0.150	04/06/2023	ND	6.79	113	6.00	7.67	
Total BTEX	<0.300	0.300	04/06/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	04/06/2023	ND	448	112	400	7.41	
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	04/06/2023	ND	190	95.1	200	1.43	
DRO >C10-C28*	<10.0	10.0	04/06/2023	ND	187	93.7	200	0.441	
EXT DRO >C28-C36	<10.0	10.0	04/06/2023	ND					
Surrogate: 1-Chlorooctane	88.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.2	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/06/2023	Sampling Date:	04/05/2023
Reported:	04/06/2023	Sampling Type:	Soil
Project Name:	RUM POINT STATE #002 PRODUCTION	Sampling Condition:	Cool & Intact
Project Number:	NAPP2308354642	Sample Received By:	Shalyn Rodriguez
Project Location:	MANZANO H-12-T14-R37		

Sample ID: 7 (H231605-07)

BTEX 8021B	mg/	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/06/2023	ND	2.19	109	2.00	5.91	
Toluene*	<0.050	0.050	04/06/2023	ND	2.22	111	2.00	5.05	
Ethylbenzene*	<0.050	0.050	04/06/2023	ND	2.17	108	2.00	6.54	
Total Xylenes*	<0.150	0.150	04/06/2023	ND	6.79	113	6.00	7.67	
Total BTEX	<0.300	0.300	04/06/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	04/06/2023	ND	448	112	400	7.41	
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	04/06/2023	ND	190	95.1	200	1.43	
DRO >C10-C28*	<10.0	10.0	04/06/2023	ND	187	93.7	200	0.441	
EXT DRO >C28-C36	<10.0	10.0	04/06/2023	ND					
Surrogate: 1-Chlorooctane	83.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.8	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.							
ND	Analyte NOT DETECTED at or above the reporting limit							
RPD	Relative Percent Difference							
**	accepted based on LCS and/or LCSD recovery and/or RPD values. Analyte NOT DETECTED at or above the reporting limit 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							
***	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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Observed Temp. °C 2.4 2

Corrected Temp. °C

Company Name: Manzano Energy, LLC. BILL TO ANALYSIS REQUEST Project Manager: Republic Backhoe Service, LLC P.O. #: 47 E Dickens Rd. Address: Company: Republic Backhoe Lovington City: 88260 State: NM Zip: Attn: Eric Garcia Phone #: (575) 631-0131 Address: 47 E. Dickens Rd. Fax #: Project #: nAPP2308354642 Project Owner: Manzano, LLC, City: Lovington Project Name: Rum Point State #002 Production Line State: NM Zip: 88260 Project Location: H-12-T14-R37 Phone #: (575) 631-0131 Eric Garcia Sampler Name: Fax #: FOR LAB USE ONLY MATRIX PRESERV SAMPLING (G)RAB OR (C)OMP GROUNDWATER CONTAINERS WASTEWATER Lab I.D. Sample I.D. ACID/BASE: ICE / COOL Chlorides OIL OTHER : BTEX OTHER TPH SOIL 1231605 DATE TIME # C 1/5/23 12:450 2 C 1:05 2 C 1:20 4 C 1:40 5 5 1:55 0 2:15 7:35 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 the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after 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 of profits incurred by client, its subsidiaries, ates or successors arising out of or related to the pe ance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise Relinquished By Received By: Verbal Result:
Verbal Result: Add'l Phone #: All Results are emailed. Please provide Email address: republiconecalls@gmail.com Relinguished By: Date Received By: REMARKS: Time:

URM-000 R 3.2 10/07/2

4M48

 \approx

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

CHECKED BY:

(Initials)

Turnaround Time:

Thermometer ID #113

Correction Factor -0.5°C

Standard

Rush

Bacteria (only) Sample Condition

Observed Temp. °C

Corrected Temp. °C

Cool Intact

Yes Yes

Sample Condition

Cool Intact

Yes Yes

No No

9 of Page 10



April 06, 2023

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

RE: RUM POINT STATE #002 PRODUCTION LINE

Enclosed are the results of analyses for samples received by the laboratory on 04/06/23 8:22.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	04/06/2023	Sampling Date:	04/05/2023
Reported:	04/06/2023	Sampling Type:	Soil
Project Name:	RUM POINT STATE #002 PRODUCTION	Sampling Condition:	Cool & Intact
Project Number:	NAPP2308354642	Sample Received By:	Shalyn Rodriguez
Project Location:	MANZANO H-12-T14-R37		

Sample ID: A (H231604-01)

BTEX 8021B	mg	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/06/2023	ND	2.19	109	2.00	5.91	QR-03
Toluene*	<0.050	0.050	04/06/2023	ND	2.22	111	2.00	5.05	QR-03
Ethylbenzene*	<0.050	0.050	04/06/2023	ND	2.17	108	2.00	6.54	QR-03
Total Xylenes*	<0.150	0.150	04/06/2023	ND	6.79	113	6.00	7.67	
Total BTEX	<0.300	0.300	04/06/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	04/06/2023	ND	448	112	400	7.41	
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	04/06/2023	ND	190	95.1	200	1.43	
DRO >C10-C28*	<10.0	10.0	04/06/2023	ND	187	93.7	200	0.441	
EXT DRO >C28-C36	<10.0	10.0	04/06/2023	ND					
Surrogate: 1-Chlorooctane	84.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.6	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/06/2023	Sampling Date:	04/05/2023
Reported:	04/06/2023	Sampling Type:	Soil
Project Name:	RUM POINT STATE #002 PRODUCTION	Sampling Condition:	Cool & Intact
Project Number:	NAPP2308354642	Sample Received By:	Shalyn Rodriguez
Project Location:	MANZANO H-12-T14-R37		

Sample ID: B (H231604-02)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/06/2023	ND	2.19	109	2.00	5.91	
Toluene*	<0.050	0.050	04/06/2023	ND	2.22	111	2.00	5.05	
Ethylbenzene*	<0.050	0.050	04/06/2023	ND	2.17	108	2.00	6.54	
Total Xylenes*	<0.150	0.150	04/06/2023	ND	6.79	113	6.00	7.67	
Total BTEX	<0.300	0.300	04/06/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	04/06/2023	ND	448	112	400	7.41	
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	04/06/2023	ND	190	95.1	200	1.43	
DRO >C10-C28*	<10.0	10.0	04/06/2023	ND	187	93.7	200	0.441	
EXT DRO >C28-C36	<10.0	10.0	04/06/2023	ND					
Surrogate: 1-Chlorooctane	82.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.3	% 49.1-14	8						

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*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/06/2023	Sampling Date:	04/05/2023
Reported:	04/06/2023	Sampling Type:	Soil
Project Name:	RUM POINT STATE #002 PRODUCTION	Sampling Condition:	Cool & Intact
Project Number:	NAPP2308354642	Sample Received By:	Shalyn Rodriguez
Project Location:	MANZANO H-12-T14-R37		

Sample ID: C (H231604-03)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/06/2023	ND	2.19	109	2.00	5.91	
Toluene*	<0.050	0.050	04/06/2023	ND	2.22	111	2.00	5.05	
Ethylbenzene*	<0.050	0.050	04/06/2023	ND	2.17	108	2.00	6.54	
Total Xylenes*	<0.150	0.150	04/06/2023	ND	6.79	113	6.00	7.67	
Total BTEX	<0.300	0.300	04/06/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	04/06/2023	ND	448	112	400	7.41	
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	04/06/2023	ND	190	95.1	200	1.43	
DRO >C10-C28*	<10.0	10.0	04/06/2023	ND	187	93.7	200	0.441	
EXT DRO >C28-C36	<10.0	10.0	04/06/2023	ND					
Surrogate: 1-Chlorooctane	76.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.6	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/06/2023	Sampling Date:	04/05/2023
Reported:	04/06/2023	Sampling Type:	Soil
Project Name:	RUM POINT STATE #002 PRODUCTION	Sampling Condition:	Cool & Intact
Project Number:	NAPP2308354642	Sample Received By:	Shalyn Rodriguez
Project Location:	MANZANO H-12-T14-R37		

Sample ID: D (H231604-04)

BTEX 8021B	mg/	'kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/06/2023	ND	2.19	109	2.00	5.91	
Toluene*	<0.050	0.050	04/06/2023	ND	2.22	111	2.00	5.05	
Ethylbenzene*	<0.050	0.050	04/06/2023	ND	2.17	108	2.00	6.54	
Total Xylenes*	<0.150	0.150	04/06/2023	ND	6.79	113	6.00	7.67	
Total BTEX	<0.300	0.300	04/06/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608 16.0		04/06/2023	ND	448	112	400	7.41	
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	04/06/2023	ND	190	95.1	200	1.43	
DRO >C10-C28*	<10.0	10.0	04/06/2023	ND	187	93.7	200	0.441	
EXT DRO >C28-C36	<10.0	10.0	04/06/2023	ND					
Surrogate: 1-Chlorooctane	112 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	117 9	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.							
ND	Analyte NOT DETECTED at or above the reporting limit							
RPD	Relative Percent Difference							
**	accepted based on LCS and/or LCSD recovery and/or RPD values. Analyte NOT DETECTED at or above the reporting limit 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							
***	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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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Received by OCD: 4/24/2023 11:14:48 AM

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Manzano	Company Name: Manzano Energy, LLC.					BILL TO ANALYSIS REQUEST																		
Project Manager: Republic	Backhoe Service, LL	.C				P.0.	#:																	
Address: 47 E Dickens	Rd.					Company: Republic Backhoe				1														
City: Lovington	State: NM	Zip: 88260			p: 88260			88260			c Ga	arcia		1										
Phone #: (575) 631-0131	Fax #:				Add	ress	47	E. Dickens	s Rd.	1									-					
Project #: nAPP2308354642	Project Owne	r: Man	zano, L	LC.		City	Lo	vingt	ton		1													
Project Name: Rum Point State						Stat	e: N	М	Zip: 882	260	1													
Project Location: H-12-T14-R3	37								75) 631-01		1													
Sampler Name: Eric Garcia						Fax	- 0.1				1													
FOR LAB USE ONLY		TT		MAT	RIX	F	RES	RV.	SAM	PLING	1													
Lab I.D. Sam	ple I.D.	(G)RAB OR (C)OMP # CONTAINERS	GROUNDWATER	Soll	OIL	OTHER :		OTHER :	DATE	TIME	Chlorides	e BTEX	НН											
I F	7	<		X			X		4/5/23	2:50	X	X	X							2				
3	3	¢.					1			3:15	1		1		_					12				
3 (¢ L			-					3:20				_	-				1					
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		++		+	-		-	\square		1										-				
					+		+	\square	1						-					-				
					-		+	\square	<u> </u>						-									
PLEASE NOTE: Liability and Damages. Cardinal's liabi analyses. All claims including those for negligence and service. In no event shall Cardinal be liable for incidents affiliates or successors arising out of or related to the pe	any other cause whatsoever shall be al or consequental damages, including	deerned wai g without limi	ived unless r itation, busin	made in w ess interr	riting and uptions, I	l received	l by Can e, or los	dinal wi s of pro	thin 30 days after fits incurred by c	r completion of th lient, its subsidiar	ie applicat ies,	ble			-									
Relinquished By:	Date:		ived By							Verbal Re All Results	sult:	□ Ye			d'I Phone									
Ever En	Time:	14	R	A	Di	0	~	0	e A				gmail.co	-	mail add	ress:								
Relinguished By:	Date:	Rece	ived By	<u>л</u>	M	4	- M		~	REMARKS	S:								_		_			
	Time:								0															
Delivered By: (Circle One)	Observed Temp. °C	142		nple C ol In		on		ECK	ED BY:	Turnaroun	d Time	:	Stand Rush	ard 🛛	Bacte	ria (only		ple Cor served		°C				
Sampler - UPS - Bus - Other:	Corrected Temp. C	.8i		Yes			7	X		Thermometer Correction F			81		Yes			rected						

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3470 Fax: (505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

CONDITIONS

Operator:	OGRID:
MANZANO LLC	231429
P.O. Box 1737	Action Number:
Roswell, NM 88202	159999
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	7/17/2023

CONDITIONS

Action 159999