

January 25, 2021 Vertex Project #: 20E-00239-006

Spill Closure Report: Tony La Russa State Com 201H/202H

Unit C, Section 3, Township 24 South, Range 27 East

County: Eddy

NM OCD Incident Tracking Number: NRM2008758101

Prepared For: Matador Production Company

5400 LBJ Freeway

Suite 1500

Dallas, Texas 75240

New Mexico Oil Conservation Division - District 2 - Artesia

811 South First Street Artesia, New Mexico 88210

Matador Production Company (Matador) retained Vertex Resource Services Inc. (Vertex) to conduct a spill assessment and remediation for a produced water release that occurred at Tony La Russa State Com 201H/202H (hereafter referred to as "Tony La Russa"). Matador provided notification of the spill to New Mexico Oil Conservation Division (NM OCD) District 2 and the New Mexico State Land Office (SLO), who owns the land, via submission of an initial C-141 Release Notification on March 27, 2020 (Attachment 1). The NM OCD tracking number assigned to this incident is NRM2008758101.

This letter provides a description of the spill assessment and remediation activities, and demonstrates that closure criteria established in 19.15.29.12 *New Mexico Administrative Code* (NMAC; New Mexico Oil Conservation Division, 2018) have been met and all applicable regulations are being followed. This document is intended to serve as a final report to obtain approval from the NM OCD for closure of this release.

Incident Description

On March 18, 2020, a release occurred at Matador's Tony La Russa site when a seal on the produced water pump flowline failed. This incident resulted in the release of approximately 16.60 barrels (bbls) of produced water onto the engineered pad and into adjacent pasture. Upon discovery of the release, a hydrovac truck was dispatched to site to recover free fluids; approximately 12 bbls of produced water were recovered. The spill impacted an area off-lease that had experienced previous disturbance. No produced water was released into undisturbed or sensitive areas, or waterways.

Site Characterization

The release at Tony La Russa occurred on state-owned land, N 32.253397, W 104.181271, approximately 5 miles southwest of Loving, New Mexico. The legal description for the site is Unit C, Section 3, Township 24 South, Range 27 East, Eddy County, New Mexico. This location is within the Permian Basin in southeast New Mexico and has historically been used for oil and gas exploration and production, and farmland. An aerial photograph and site schematics are included in Attachment 2.

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The Tony La Russa complex consists of production and storage equipment, a tank battery, and nearby oil and gas exploration and production wellpads, and is typical of oil and gas-related sites in the western portion of the Permian Basin. The following sections specifically describe the release area in the northern portion of the tank battery containment and the adjacent pasture area east of the engineered pad.

The surrounding landscape is associated with alluvial fans typical of elevations between 1,100 and 4,400 feet above sea level. The climate is semi-arid, with average annual precipitation ranging between 7 and 14 inches. Historically, the plant communities in this area have had a grassland aspect, and the dominant species are black grama, tobosa and blue grama, with a variety of perennial forbs and sparse, evenly distributed shrubs. Grass cover is generally uniformly distributed with few large bare areas (United States Department of Agriculture, Natural Resources Conservation Service, 2020). Limited to no vegetation is allowed to grow on the engineered pad. There is little evidence of vegetation growing in the area of the off-lease portion of the release due to the presence of a lease road along the east side of the site and indications the pasture area is commonly used as a vehicle turnaround.

The Geological Map of New Mexico indicates the surface geology at is comprised of Qp – Piedmont alluvial deposits (New Mexico Bureau of Geology and Mineral Resources, 2020). The Natural Resources Conservation Service Web Soil Survey characterizes the soil at Tony La Russa as Reagan loam, with a soil profile consisting of deep layers of loam. This soil tends to be well drained with low runoff and moderate available water storage in the soil profile (United States Department of Agriculture, Natural Resources Conservation Service, 2020). There is low to medium potential for karst geology to be present near Tony La Russa (United States Department of the Interior, Bureau of Land Management, 2020).

There is no surface water located on-site. The nearest significant watercourse, as defined in Subsection P of 19.15.17.7 NMAC, is Black River, located approximately 0.85 miles south of the site (United States Fish and Wildlife Service, 2020). At Tony La Russa, there are no continuously flowing watercourses, lakebeds, sinkholes, playa lakes, or other critical water or community features as outlined in Paragraph (4) of Subsection C of 19.15.29.12 NMAC.

The nearest recent well to the site is a New Mexico Office of the State Engineer-identified well, located approximately 0.8 miles northeast of Tony La Russa, with a depth to groundwater of 67 feet below ground surface (bgs; New Mexico Office of the State Engineer, New Mexico Water Rights Reporting System, 2020). Documentation pertaining to site characterization and depth to groundwater determination is included in Attachment 3.

Closure Criteria Determination

Using site characterization information, a closure criteria determination worksheet (Attachment 3) was completed to determine if the release was subject to any of the special case scenarios outlined in Paragraph (4) of Subsection C of 19.15.29.12 NMAC.

Based on data included in the closure criteria determination worksheet, the release at Tony La Russa is not subject to the requirements of Paragraph (4) of Subsection C of 19.15.29.12 NMAC. As Tony La Russa is located in an area with medium potential for karst, and the nearest groundwater well is farther than 0.5-miles from the release site, the closure criteria for the site are determined to be associated with the following constituent concentration limits.

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Table 1. Closure Criteria for Soils Impacted by a Release			
Depth to Groundwater	Constituent Limit		
	Chloride	600 mg/kg	
< 50 feet	TPH ¹ (GRO + DRO + MRO)	100 mg/kg	
	BTEX ²	50 mg/kg	
	Benzene	10 mg/kg	

¹Total petroleum hydrocarbons (TPH) = gasoline range organics (GRO) + diesel range organics (DRO) + motor oil range organics (MRO) ²Benzene, toluene, ethylbenzene and xylenes (BTEX)

Remedial Actions

Initial spill inspection and site characterization activities at Tony La Russa were completed by Vertex on March 19, 2020. The Daily Field Report (DFR) associated with the site visit is included in Attachment 4. A selection of characterization soil samples was submitted for laboratory analysis to confirm the field screening data. Using initial field screening and soil sample laboratory data, as presented in Table 2 (Attachment 5), the release was delineated horizontally and vertically as presented on Figure 1 (Attachment 2), and a remediation plan was developed. On April 16, 2020, Vertex provided 48-hour notification of confirmation sampling to the NM OCD (Attachment 6), as required by Subparagraph (a) of Paragraph (1) of Subsection D 19.15.29.12 NMAC.

Excavation of impacted soils was conducted between April 20 and 21, 2020, with a Vertex representative on-site to conduct field screening to guide the excavation and determine final horizontal and vertical extents of the excavation area as presented on Figure 2 (Attachment 2). Waste manifests are included in Attachment 4. As remediation activities were completed, Vertex collected a total of 18 five-point composite confirmatory samples from the base and side walls of the excavation, at depths ranging between ground surface and 0.5 feet bgs on-lease and ground surface to 2 feet bgs in the pasture (off-lease). Each composite sample was representative of no more than 200 square feet per the alternate sampling method outlined in Subparagraph (c) of Paragraph (1) of Subsection D 19.15.29.12 NMAC, which does not require prior NM OCD approval. The composite samples were placed into laboratory-provided containers, preserved on ice, and submitted to a National Environmental Laboratory Accreditation Program-approved laboratory for chemical analysis.

Laboratory analyses included Method 300.0 for chlorides, Method 8021B for volatile organics, including BTEX, and EPA Method 8015 for TPH, including MRO, DRO and GRO. Confirmatory sample analytical data are summarized in Table 3 (Attachment 5). Laboratory data reports and chain of custody forms are included in Attachment 7.

A GeoExplorer 7000 Series Trimble global positioning system (GPS) unit, or equivalent, was used to map the approximate center of each of the five-point composite samples. The confirmatory sample locations are presented on Figure 2 (Attachment 2). Relevant equipment and prominent features/reference points at the site are mapped as well.

Closure Request Denial and Additional Activities

On July 27, 2020, Matador requested closure for the release at Tony La Russa, at Vertex's recommendation. On November 20, 2020, the NM OCD denied closure for this incident based on the following:

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- The release occurred in a High Karst area and will need to be remediated to the strictest closure criteria of <50' depth to groundwater from Table 1 of the spill rule.
- When nearby wells are used to determine depth to groundwater, the wells should be no further than ½-mile away from the site, and data should be no more than 25 years old, and well construction information should be provided. If evidence of depth to groundwater within a ½-mile radius of the site cannot be provided, impacted soils will need to meet Table 1 Closure Criteria for groundwater at a depth of 50 feet or less.

On November 27, 2020, Vertex provided 48-hour notification of additional remediation and confirmation sampling to NM OCD, as required by Subparagraph (a) of Paragraph (1) of Subsection D 19.15.29.12 NMAC (Attachment 5). On December 2, 2020, Vertex was onsite to oversee additional remediation of the failed confirmatory sampling locations, using field screening methods to guide excavation and verify that the release was remediated to the extent required.

Following the completion of additional remediation activities, Vertex re-collected 2 five-point composite confirmatory samples from the base and sidewall of the release area. Each composite sample was representative of no more than 200 square feet per the alternate sampling method outlined in Subparagraph (c) of Paragraph (1) of Subsection D 19.15.29.12 NMAC, which does not require prior NM OCD approval. The composite samples were placed into laboratory-provided containers, preserved on ice, and submitted to a NELAP-approved laboratory for chemical analysis.

Laboratory analysis included Method 300.0 for chlorides, Method 8021B for volatile organics, including BTEX, and EPA Method 8015 for TPH, including MRO, DRO and GRO. The new confirmatory sampling analytical data are summarized alongside the original confirmatory sampling data in Table 3 (Attachment 6). Laboratory data reports and chain of custody forms are included in Attachment 7.

The re-collected confirmatory sample locations remained as presented on the original Figure 2 (Attachment 2).

Closure Request

Vertex recommends no additional action to address the release at Tony La Russa. Laboratory analyses of confirmatory samples, including the two re-collected confirmatory samples, show constituent of concern concentration levels below the most-strict NM OCD closure criteria as presented in Table 1. There are no anticipated risks to human, ecological or hydrological receptors associated with the release site.

Initial remediation efforts for the portion of the release that occurred off-lease included excavation of contaminated materials to levels meeting NM OCD restoration and reclamation requirements as outlined in 19.15.29.13 NMAC. The excavation was backfilled with non-waste-containing, uncontaminated, earther material, sourced locally, and placed to meet the site's existing grade to prevent ponding of water and erosion, and aid in the establishment of vegetation.

Vertex requests that this incident (NRM2008758101) be closed as the original closure request denial (Attachment 8) reasons have been addressed and all closure requirements set forth in Subsection E of 19.15.29.12 NMAC have been met. Matador certifies that all information in this report and the attachments is correct, and that they have complied with all applicable closure requirements and conditions specified in Division rules and directives to meet NM OCD requirements to obtain closure on the March 18, 2020, release at Tony La Russa.

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Matador Production Company

Tony La Russa State Com 201H/202H

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Should you have any questions or concerns, please do not hesitate to contact the undersigned at 505.506.0040 or ngordon@vertex.ca.

Sincerely,

Natalie Gordon PROJECT MANAGER

Attachments

Attachment 1. NM OCD C-141 Report

Attachment 2. Figures

Attachment 3. Closure Criteria for Soils Impacted by a Release Research Determination Documentation

Attachment 4. Daily Field Report(s) with Photographs and Waste Manifests

Attachment 5. Tables

Attachment 6. Required 48-hr Notification of Confirmation Sampling to Regulatory Agencies

Attachment 7. Laboratory Data Reports/Chain of Custody Forms

Attachment 8. NM OCD Original Closure Denial

2020 Spill Assessment and Closure January 2021

References

- New Mexico Bureau of Geology and Mineral Resources. (2020). *Interactive Geologic Map.* Retrieved from http://geoinfo.nmt.edu
- New Mexico Oil Conservation Division. (2018). New Mexico Administrative Code Natural Resources and Wildlife Oil and Gas Releases. Santa Fe, New Mexico.
- New Mexico Office of the State Engineer, New Mexico Water Rights Reporting System. (2020). Water Column/Average Depth to Water Report. Retrieved from http://nmwrrs.ose.state.nm.us/nmwrrs/waterColumn.html.
- United States Department of Agriculture, Natural Resources Conservation Service. (2020). *Web Soil Survey*. Retrieved from https://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx
- United States Department of the Interior, Bureau of Land Management. (2020). *New Mexico Cave/Karsts*. Retrieved from https://www.blm.gov/programs/recreation/recreation-programs/caves/new-mexico
- United States Fish and Wildlife. (2020). *National Wetlands Inventory*. Retrieved from https://www.fws.gov/wetlands/Data/Mapper.html

2020 Spill Assessment and Closure January 2021

Limitations

This report has been prepared for the sole benefit of Matador Production Company (Matador). This document may not be used by any other person or entity, with the exception of the New Mexico Oil Conservation Division, without the express written consent of Vertex Resource Services Inc. (Vertex) and Matador. Any use of this report by a third party, or any reliance on decisions made based on it, or damages suffered as a result of the use of this report are the sole responsibility of the user.

The information and conclusions contained in this report are based upon work undertaken by trained professional and technical staff in accordance with generally accepted scientific practices current at the time the work was performed. The conclusions and recommendations presented represent the best judgement of Vertex based on the data collected during the assessment. Due to the nature of the assessment and the data available, Vertex cannot warrant against undiscovered environmental liabilities. Conclusions and recommendations presented in this report should not be considered legal advice.

ATTACHMENT 1

ATTACHMENT 2

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

Received by OCD: 3/27/2020 1:37:33 PM

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	NRM2008758101
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Matador Production Company OGRID			mpany	OGRID: 2	228937	
			elephone: 972-371-5200			
		(assigned by OCD)				
					(assigned by OCD)	
Contact mailing address: 5400 LBJ Freeway, Suite 1500 Dallas, TX 75240						
			Location	of Release S	ource	
Latitude	32.25339	97			-104.181271	
			(NAD 83 in dec	cimal degrees to 5 decir	nal places)	
Site Name: T	ony La Russ	sa State Com 201F	I/202H	Site Type:	Oil Well-Tank Battery	
Date Release	Discovered	01/24/2020		API# (if app	olicable) 30-015-45964	
Unit Letter	Section	Township	Range	Cour		
С	3	24S	27E	Edd	У	
Surface Owne		Federal Tr	Nature and	d Volume of	Release	
Crude Oil	l	Volume Release	d (bbls)		Volume Recovered (bbls)	
Noduced Produced	Water	Volume Release	d (bbls) 16.60	bbls	Volume Recovered (bbls) 12 bbls	
		Is the concentration of dissolved chloride in the produced water >10,000 mg/l?		hloride in the	⊠ Yes □ No	
Condensa Condensa	ite	Volume Release	d (bbls)		Volume Recovered (bbls)	
☐ Natural Gas Volume Released (Mcf)		Volume Recovered (Mcf)				
☐ Volume/Weight Released (provide units)		e units)	Volume/Weight Recovered (provide units)			
Cause of Rele	ase:	4			1	
Pump seal fai	lure on flow	line.				

Received by OCD: 3/27/2020 1:37:33 PM

Form C-141

Page 2

141 State of New Mexico
Oil Conservation Division

Incident ID	NRM2008758101
District RP	
Facility ID	
Application ID	

Was this a major release as defined by	If YES, for what reason(s) does the	ne responsible party consider this a major release?
19.15.29.7(A) NMAC?		
☐ Yes ⊠ No		
If YES, was immediate no	otice given to the OCD? By whom	? To whom? When and by what means (phone, email, etc)?
	Init	tial Response
The responsible p	party must undertake the following actions in	mmediately unless they could create a safety hazard that would result in injury
☐ The source of the rele	ase has been stopped.	
The impacted area has	s been secured to protect human he	alth and the environment.
Released materials ha	ve been contained via the use of be	erms or dikes, absorbent pads, or other containment devices.
All free liquids and re	coverable materials have been rem	oved and managed appropriately.
If all the actions described	l above have <u>not</u> been undertaken, e	explain why:
Per 19,15,29,8 B. (4) NM.	AC the responsible party may comi	mence remediation immediately after discovery of a release. If remediation
has begun, please attach a	narrative of actions to date. If re	medial efforts have been successfully completed or if the release occurred MAC), please attach all information needed for closure evaluation.
I hereby certify that the infor	mation given above is true and complet	te to the best of my knowledge and understand that pursuant to OCD rules and
regulations all operators are r	equired to report and/or file certain rela	ease notifications and perform corrective actions for releases which may endanger by the OCD does not relieve the operator of liability should their operations have
failed to adequately investiga	te and remediate contamination that po	se a threat to groundwater, surface water, human health or the environment. In
addition, OCD acceptance of and/or regulations.	a C-141 report does not relieve the ope	erator of responsibility for compliance with any other federal, state, or local laws
	ohn Hurt .	Title: RES Specialist
6/10	- H	3/2/20
Signature:		Date:
email: JHurt@matadorr	esources.com	Telephone: 972- 371-5200
OCD Only		
Received by:Ramona	Marcus	Date: 3/27/2020

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State of New Mexico Oil Conservation Division

Incident ID	NRM2008758101
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?	<50(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 X 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 X 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 X No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	Yes X No
Are the lateral extents of the release within 300 feet of a wetland?	Yes X No
Are the lateral extents of the release overlying a subsurface mine?	Yes X 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?	X 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. X Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. X Field data X Data table of soil contaminant concentration data X Depth to water determination X Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release X Boring or excavation logs X Photographs including date and GIS information X Topographic/Aerial maps X 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.

Form C-141

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State of New Mexico Oil Conservation Division

Incident ID	NRM2008758101
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release not public health or the environment. The acceptance of a C-141 report by the failed to adequately investigate and remediate contamination that pose a thr addition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	ifications and per OCD does not relicated to groundwate	form corrective actions for relea eve the operator of liability short, surface water, human health or	ses which may endanger uld their operations have or the environment. In
Printed Name:John Hurt		RES Specialist	
Signature: fle th	Date:	1/26/21	
email: JHurt@matadorresources.com .	Telephone: _	972-371-5200	
OCD Only			
Received by:	Date:		

Form C-141 Page 6

State of New Mexico Oil Conservation Division

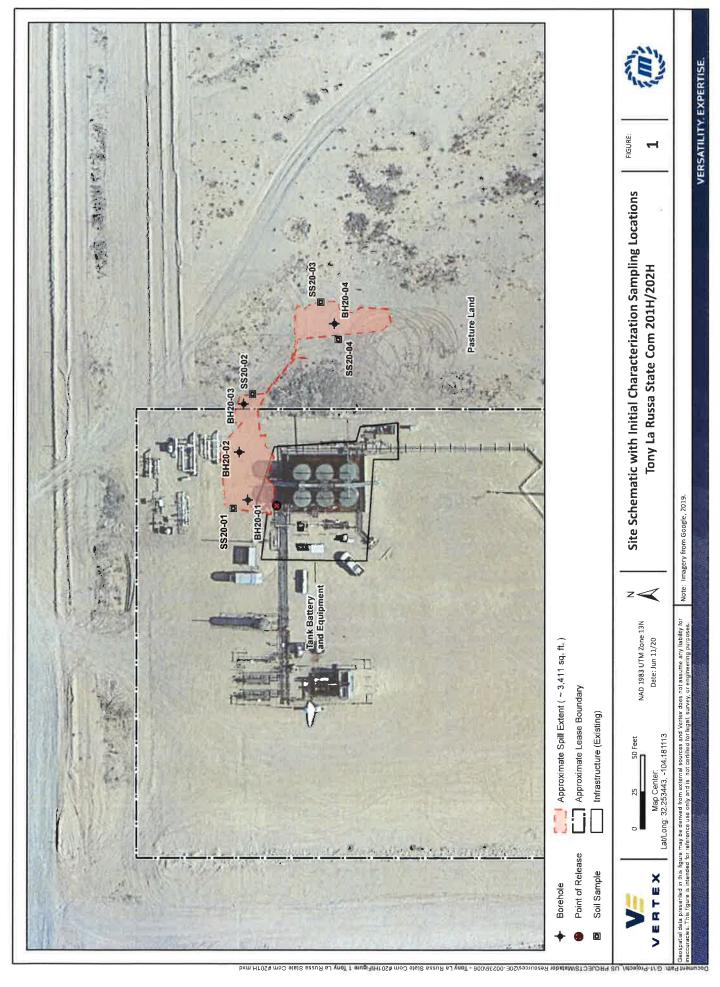
Closure Report Attachment Checklist: Each of the following items must be included in the closure report.

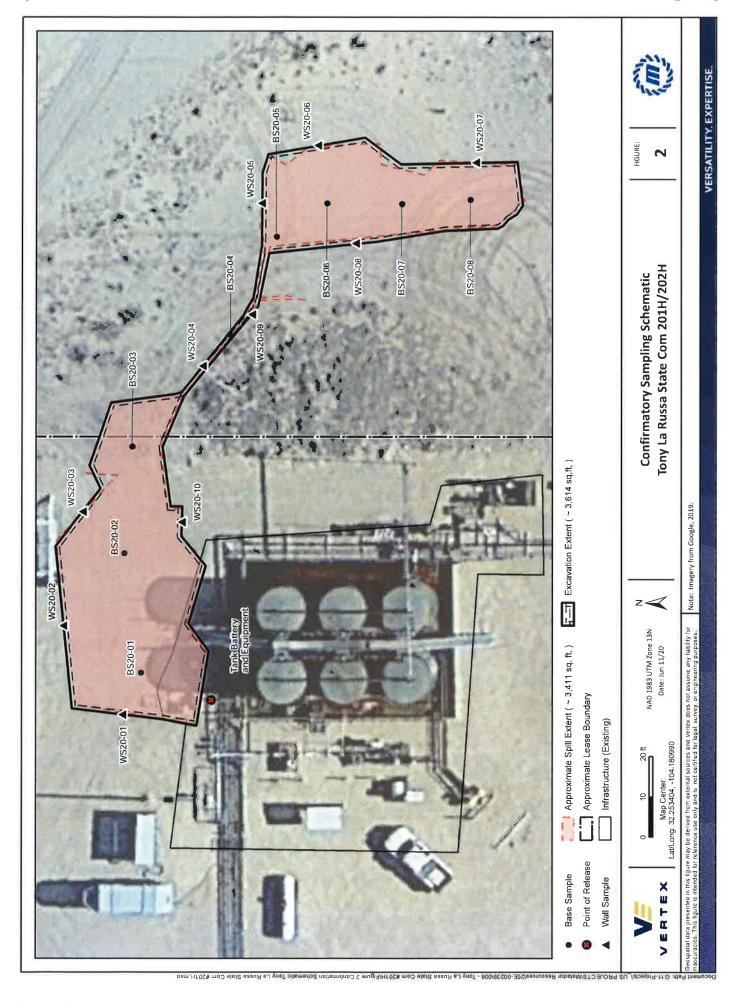
Incident ID	NRM2008758101
District RP	
Facility ID	
Application ID	

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.

X A scaled site and sampling diagram as described in 19.15.29.11 NMAC	
Nhotographs 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)	
X Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)	
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 Hurt Title: RES Specialist Date: J26/2 JHurt@matadorresources.com Telephone: 972-371-5200	
OCD Only	
Received by: Date:	
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: Date:	
Printed Name: Title:	
	_

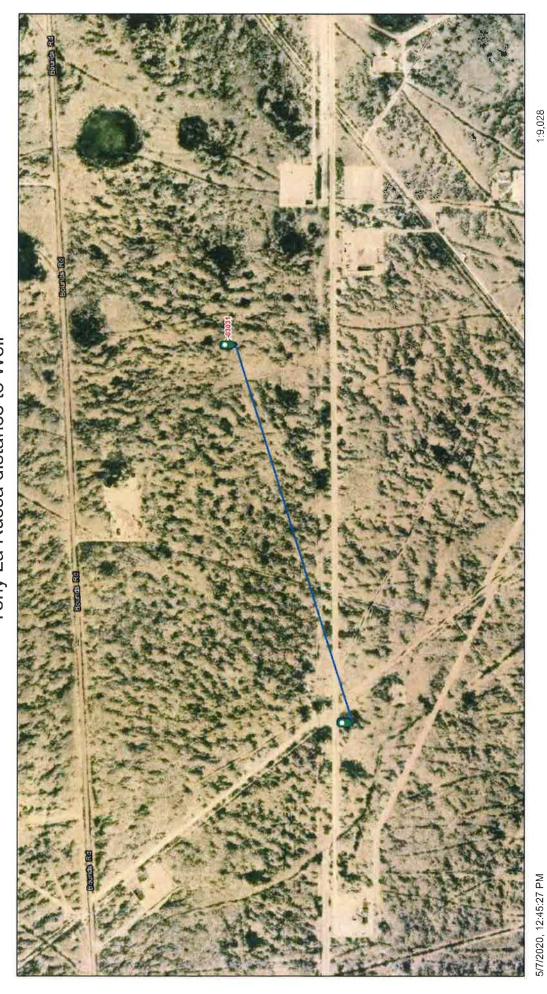




ATTACHMENT 3

Closure (Criteria Worksheet		
	e: Tony La Russa State Com #201H	4	
Spill Coo		X: 32.253397	Y: -104.181271
Site Spec	ific Conditions	Value	Unit
1	Depth to Groundwater	67	feet
2	Within 300 feet of any continuously flowing watercourse or any other significant watercourse	4,484	feet
3	Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark)	19,921	feet
4	Within 300 feet from an occupied residence, school, hospital, institution or church	10,803	feet
5	i) Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or	10,803	feet
	ii) Within 1000 feet of any fresh water well or spring	10,803	feet
6	Within incorporated municipal boundaries or within a defined municipal fresh water field covered under a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978 as amended, unless the municipality specifically approves	No	(Y/N)
7	Within 300 feet of a wetland	20,074	feet
8	Within the area overlying a subsurface mine	No	(Y/N)
9	Within an unstable area (Karst Map)	Low	Critical High Medium Low
10	Within a 100-year Floodplain	>100	year
11	Soil Type		
12	Ecological Classification		
13	Geology		
	NMAC 19.15.29.12 E (Table 1) Closure Criteria	>100'	<50' 51-100' >100'

Tony La Russa distance to Well



0.3 mi

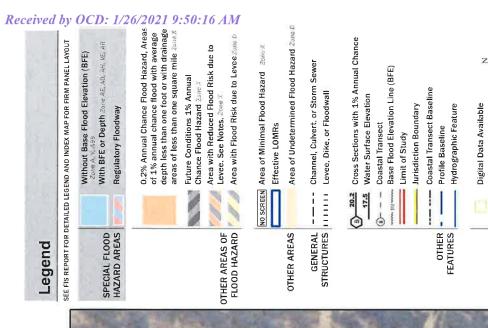
0.07

OSE District Boundary

GIS WATERS PODs Active

The New Mexico Office of the State Engineer (OSE) provides this geographic data and any associated metadata as is without warranty of any kind, including but not limited to its completeness, fitness for a particular use, or accuracy of its content, positional or otherwise. It's the sole responsibility of the user to

National Flood Hazard Layer FIRMette



point selected by the user and does not represent The pin displayed on the map is an approximate an authoritative property location.

No Digital Data Available

Unmapped

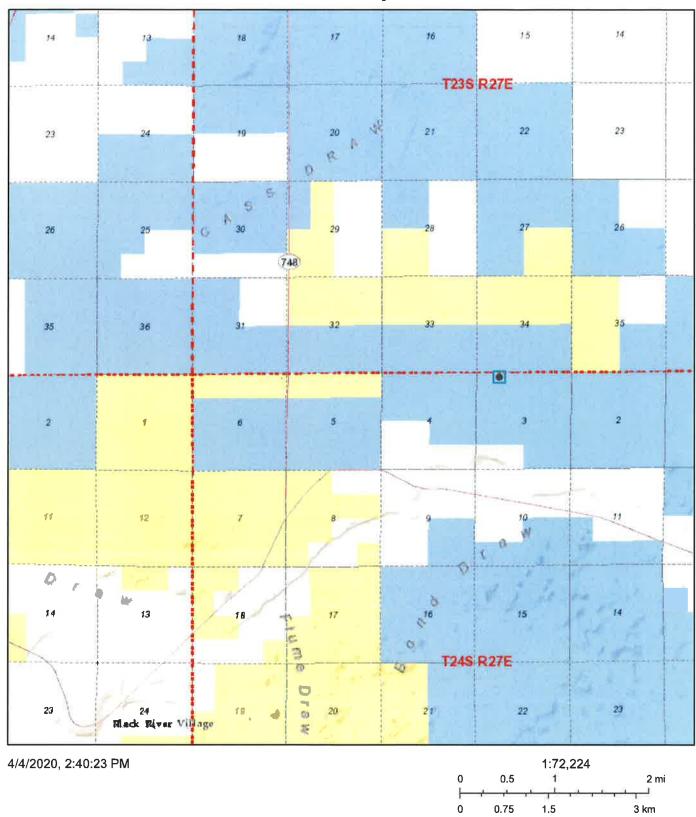
This map complies with FEMA's standards for the use of The basemap shown complies with FEMA's basemap digital flood maps if it is not void as described below.

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time. was exported on 4/4/2620 at 4:35.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, FIRM panel number, and FIRM effective date. Map images for legend, scale bar, map creation date, community identifiers, unmapped and unmodernized areas cannot be used for regulatory purposes.

1,500

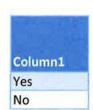
Active Mines near Tony La Russa 201H



U.S. Bureau of Land Management - New Mexico State Office, Sources: Esri, USGS, NOAA, Sources: Esri, Garmin, USGS, NPS











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 UTM in meters)

Well Tag **POD Number** Q64 Q16 Q4 Sec Tws Rng

 \mathbf{X}

C 03031

3 35 23S 27E 578315 3569206*

Driller License: 685 **Driller Company:**

BRAZEAL, JOHN

Driller Name:

WAYNE BRAZEAL

06/10/2004

Drill Finish Date:

06/16/2004

Plug Date:

Drill Start Date: Log File Date:

06/24/2004

PCW Rcv Date:

Source: Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield: 50 GPM

Casing Size:

6.00 Depth Well: 150 feet

Depth Water:

67 feet

Water Bearing Stratifications:

Top **Bottom**

150

Description Other/Unknown

Casing Perforations:

Top Bottom

90 150

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

139

5/7/20 10:49 AM

POINT OF DIVERSION SUMMARY

^{*}UTM location was derived from PLSS - see Help

Active & Inactive Points of Diversion New Mexico Office of the State Engineer

(with Ownership Information)
(R=POD has been replaced

					and no longer serves this file,	naceu his file, (quarters are 1=NW 2=NE 3=SW 4=SE)	4=SE)		
	(acre f	(acre ft per annum)			C=the file is closed)	(quarters are smallest to largest)	(NAD83 UTM in meters)	meters)	
	Sub			Well		6 6 6			
WR File Nbr	basin Use Div	basin Use Diversion Owner	County POD Number	nber Tag	Code Grant	Source 6416 4 Sec Tws Rng	×	۸	Distance
C 03031	C DOI	3 ROBBY WALTERSCHEID	ED C 03031			Shallow 1 3 3 35 23S 27E	578315 3569206*	\$902	1381
RA 00873	RA IRR	0 JEFFREY P SCHULTZ	CH RA 00873	el.		1 2 1 10 24S 27E	577104 3567159*	159*	1658
C 00364	CUB CLS	0 A.J. CRAWFORD	ED C 00364		U	1 2 09 24S 27E	575997 3567043*	043*	2030
SD 00431	CUB IRR	840 POLLED ANGUS CATTLE COMPANY OF CARLSBAD	ED SD 00431	÷1		2 10 24S 27E	577807 3566860*	\$09.	2117
C 00821	C PRO	0 UNION OIL CO. OF CALIFORNIA	ED C 00821			Shallow 3 2 09 24S 27E	575996 3566635*	535*	2394
C 00850	C PRO	0 UNION OIL CO. OF CALIFORNIA	ED C 00850			Shallow 2 3 09 24S 27E	575595 3566223*	223*	2942
C 02453	C DOI	3 DAVID M. SQUIRES	ED C 02453			Shallow 4 4 2 29 23S 27E	574876 3571372*	372*	3319
C 01767	C DOM	0 WAYNE BRAZEAL	ED C 01767			1 4 29 23S 27E	574375 3571062*	362*	3448
C 04405	C DOM	1 GABINO GAMINO JR	ED C 04405 POD1	POD1 2236E		4 3 2 29 23S 27E	574384 3571316	316	3613
C 01366	CUB EXP	0 HARLEY DAVIS	ED C 01366			Shallow 4 08 24S 27E	574590 3566003*	\$200	3695
C 02377	С ООМ	3 LOUIS G FANNING	ED C 02377			Shallow 2 29 23S 27E	574575 3571666*	*999	3737
C 03416	CUB EXP	0 JAMES S DAVIS	ED C 03416 POD1	POD1		3 1 4 08 24S 27E	574271 3566180	3180	3784
C 00518	CUB IRR	199.5 OTIS MUTUAL DOMESTIC WTR CONSUMERS & SEWER WORKS ASSOC	ED C 00518 POD2	POD2		Shallow 2 4 4 22 23S 27E	578105 3572431*	431*	3785
C 00518 A	CUB MDW	123.9 OTIS WATER USERS CO OP	ED C 00518 POD2	POD2		Shallow 2 4 4 22 23S 27E	578105 3572431*	431*	3785
C 03219	CUB EXP	0 OTIS WATER CO-OP	ED C 00518 POD2	POD2		Shallow 2 4 4 22 23S 27E	578105 3572431*	431*	3785
C 01473	CUB IRR	354 WILLIAM D. COLWELL	ED C 01473			Shallow 1 1 3 25 23S 27E	579919 3571254*	254*	3812
C 00516	CUB EXP	72.4 BARBARA DAVIS	ED C 00516 POD5	POD5		1 3 4 08 24S 27E	574286 3565921	921	3959

*UTM location was derived from PLSS - see Help

4/4/20 2:36 PM

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				(R=POD has been replaced and no longer serves this file,	eplaced s this file, (quarters are 1=NW 2=NE 3=SW 4=SE)	4=SE)		
	(acre	(acre ft per annum)		C=the file is closed)	(quarters are smallest to largest) (NAD83 UTM in meters)	(NAD83 UTM ir	in meters)	
	Sub							
WR File Nbr	basin Use C	basin Use Diversion Owner C	County POD Number	Tag Code Grant	Source 6416 4 Sec Tws Rng	×	∀	Distance
			ED C 00516		Shallow 1 3 4 08 24S 27E	574288 3565	3565901*	3972
			ED C 00516 POD3		1 3 4 08 24S 27E	574288 3565	3565901*	3972
			ED C 00516 S		Shallow 1 3 4 08 24S 27E	574288 356	3565901 🌑	3972
C 03708	C PRO	0 BARBARA DAVIS	ED C 00516 S		Shallow 1 3 4 08 24S 27E	574288 356	3565901 🌑	3972
C 02567	C DOM	3 JEROME SMITH	ED C 02567		Shallow 2 1 2 26 23S 27E	579314 3572	3572049*	3983
C 01606	C DOL	0 JOHN BRAZEAL	ED C 01606		1.2 29 23S 27E	574372 3571	3571869* 🌑	4023
C 01719	C DOL	0 JOHN BRAZEAL	ED C 01719		1 2 29 23S 27E	574372 3571	3571869*	4023
C 01775	C DOL	0 JOHN BRAZEAL	ED C 01719		1 2 29 23S 27E	574372 3571	3571869* 🌑	4023
			ED C 01775		1 2 29 23S 27E	574372 3571	3571869*	4023
C 03489	CUB EXP	0 JAMES S. DAVIS	ED C 03489 POD1		Shallow 2 4 3 08 24S 27E	574153 356	3565939	4038
C 03092	C DOM	3 JAMES S DAVIS	ED C 03092		Shallow 4 3 1 08 24S 27E	573678 3566	3566501*	4039
C 02112	C STK	3 GEORGE MICHAELIS	ED C 02112		Shallow 1 3 4 13 21S 24E	573830 357	3571337 🌑	4043
C 00631	C SAN	3 GIRL SCOUTS OF AMERICA	ED C 00631		Shallow 3 3 4 08 24S 27E	574288 3565	3565701*	4121
C 01837	C PRO	0 HEYCO	ED C 01837		22 23S 27E	577395 3572	3572916* 🌑	4122
C 03260	C STK	3 CLARAMAI R HAYHURST	ED C 03260 POD1		Shallow 3 3 3 12 24S 27E	579994 356	3565935 🌑	4160
C 03837	C PRO	0 DEVON ENERGY CO	ED C 03260 POD1		Shallow 3 3 3 12 24S 27E	579994 356	3565935 🌑	4160
C 03838	C PRO	0 DEVON ENERGY CO	ED C 03260 POD1		Shallow 3 3 3 12 24S 27E	579994 356	3565935	4160
C 03839	C PRO	0 DEVON ENERGY CO	ED C 03260 POD1		Shallow 3 3 3 12 24S 27E	579994 356	3565935	4160
C 00518	CUB IRR	199.5 OTIS MUTUAL DOMESTIC WTR CONSUMERS & SEWER WORKS ASSOC	ED C 00518		Shallow 1 1 3 23 23S 27E	578310 3572	3572840*	4237
C 00518 A	CUB MDW	123.9 OTIS WATER USERS CO OP	ED C 00518		Shallow 1 1 3 23 23S 27E	578310 3572	3572840* 🌑	4237
C 03147	C WNL	3 GEORGE BRANTLEY	ED C 03147		3 3 3 12 24S 27E	579884 356	3565715	4239

*UTM location was derived from PLSS - see Help 4/4/20 2:36 PM

Page 2 of 5

			(R=POD has been replaced and no longer serves this file, C=the file is closed)	a, (quarters are 1=NW 2=N (quarters are smallest to qqq	V 4=SE) (NAD83 UTM in meters)	/ in meters)
	County POD Number	Tag	Code Grant	16	×	Y Distance
	ED C 03147			3 3 3 12 24S 27E	579884 3	3565715 🌑
	ED C 03147			3 3 3 12 24S 27E	579884 3	3565715 🌑
	ED C 01261			Shallow 21 23S 27E	575780 35	3572889*
	ED C 00683			Shallow 4 3 08 24S 27E	573986 35	3565796*
	ED C 01187			Shallow 4 3 08 24S 27E	573986 35	3565796*
	ED C 00516 POD6			Shallow 1 4 3 08 24S 27E	573885 35	3565895*
ш	ED C 00516 POD10	Ą		Shallow 3 4 3 08 24S 27E	573874 3	3565722 🌑
ш	ED C 02976			Shallow 4 2 3 12 24S 27E	580519 35	3566195*
Ш	ED C 00228 AS2			Shallow 1 1 3 21 23S 27E	575074 35	3572788*
G	C 03067			3 3 1 23 23S 27E	578311 35	3573044*
ED	C 03490 POD1			Shallow 3 4 3 08 24S 27E	573811 3	3565709
ED	C 00516 POD9			Shallow 3 4 3 08 24S 27E	573809 3	3565705
	C 03488 POD1			Shallow 4 3 1 23 23S 27E	578430 3	3573023
	C 00054			1 1 4 25 23S 27E	580727 35	3571263*
Ω	C 02937			3 4 3 12 24S 27E	580315 35	3565789*
ED	C 02941			3 4 3 12 24S 27E	580315 35	3565789*
	C 02941 POD1			3 4 3 12 24S 27E	580315 35	3565789*
E	C 00347			Shallow 1 1 13 24S 27E	580010 35	3565479* 🌑
	C 01836			1 1 13 24S 27E	580010 35	3565479*
ED	C 00228 A			Shallow 2 2 4 20 23S 27E	574871 35	3572782*
	C 00228 AS			Shallow 2 2 4 20 23S 27E	574871 35	3572782*
_	ED C 00005			1 1 4 23 23S 27E	579113 35	3572856* 🌑
	Page 3 of 5			ACTIVE & INA	ACTIVE POIN	ACTIVE & INACTIVE POINTS OF DIVERSION

			Distance	4590	4614	4728	4728	4791	4791	4814	4842	4844	4869	4869	4869	4869	4869	4869	4869	4869	4869	4869	4869	4869	4869		RSION
	(NAD83 UTM in meters)		→	3566301*	3566039	3566200*	3566200*	3565275* 🌑	3565275*	3573346*	3572672*	3565995*	3566097*	3566097*	3566097*	3566097*	3566097*	3566097*	3566097*	3566097*	3566097*	3566097*	3566097*	3566097*	3566097*		ACTIVE & INACTIVE POINTS OF DIVERSION
4=SE)	(NAD83 I		×	580832	580677	580931	580931	580221	580221	578613	579916	580930	581032	581032	581032	581032	581032	581032	581032	581032	581032	581032	581032	581032	581032		CTIVE PO
aced iis file,(quarters are 1=NW 2=NE 3=SW 4=SE)		999	Source 6416 4 Sec Tws Rng	1 4 12 24S 27E	134 12 24S 27E	4 1 4 12 24S 27E	4 1 4 12 24S 27E	1 13 24S 27E	1 13 24S 27E	1 23 23 S 27E	3 1 3 24 23S 27E	2 3 4 12 24S 27E	4 12 24S 27E	4 12 24S 27E	4 12 24S 27E	4 12 24S 27E	4 12 24S 27E	4 12 24S 27E	4 12 24S 27E	4 12 24S 27E	4 12 24S 27E	4 12 24S 27E	4 12 24S 27E	4 12 24S 27E	4 12 24S 27E		ACTIVE & INA
(R=POD has been replaced and no longer serves this file.	C=the file is closed)	Well	Tag Code Grant		NON																	U					
		5																									
			POD Number	SP 01349	C 03869 POD1	C 03032	C 03032	C 01646 X	C 01943	C 01263	C 03196	C 03055	SP 01927	SP 01927	SP 01927	SP 01927	SP 01927	SP 01927	SP 01927	SP 01927	SP 01927	SP 01927	SP 01927	SP 01927	SP 01927		Page 4 of 5
			County		E	ED	ED	ED	ED	ED	ED	ED	ED	ED	ED	ED	ED		ED	ED	ED	ED	ED				
	(acre ft per annum)		Use Diversion Owner	2967.41 NM INTERSTATE STREAM COMM	3 DRAPER BRANTLEY JR	3 GEORGE BRANTLEY	0 MEWBOURNE OIL	0 GEORGE BRANTLEY	3 GARY THOMPSON	0 OT'S WATER USERS COOP.	3 DIANE WALTERS	0 GEORGE BRANTLEY	185.7 CARLETON JOE O	314.245 HENRY E MCDONALD	1422 PARDUE LIMITED COMPANY	55.05 TOMMY JR. OR CARLA DUARTE	343.5 W.J. BURKHAM	74.7 BETH ANN BOTROS	117.9 MIKE M. VASQUEZ	240 DAMON U. BOND	100 DICK CALDERON	0 UNITED STATES OF AMERICA	2171.91 EDWARD F. JUDKINS	796.367 REYNOLDS JOHNSON	144.794 JULIAN SMITH	*UTM location was derived from PLSS - see Help	
		q	in Use I	IB IRR	STK	DOL	PRO	IB IRR	STK	IB EXP	DOL	DOL:	IB IRR	IB IRR	B IRR	B IRR	B IRR	IB IRR	B IRR	IB IRR	IB IRR	B CLS	B IRR	B IRR	CUB IRR	ived from	
		Sub	basin	CUB	O	O	O	CUB	O	CUB	O	O	CUB	CUB	CUB	CUB	CUB	CUB	CUB	CUB	CUB	CUB	CUB	CUB	2	was deri	Σ
			WR File Nbr	SP 01349	C 03869	C 03032	C 03253	C 01646	C 01943	C 01263	C 03196	C 03055	C 00365	C 00464	C 00513	C 00574	C 00738	C 00750	C 00764	C 01082	SD 01886	SP 01927	SP 01927 1	SP 01927 2	SP 01927 3	*UTM location	4/4/20 2:36 PM

	Distance	4869	4869	4869	4869	4877	4877	4877	4886	4943	4943	4963	4970	4970	4970
4=SE) (NAD83 UTM in meters)	>	3566097*	3566097*	3566097*	3566097*	3573447*	3573447*	3573447* 🌑	3571851* 🌑	3572274* 🌑	3573548*	3565795*	3569250* 🌑	3569250*	3569250*
/ 4=SE) (NAD83 (×	581032	581032	581032	581032	578512	578512	578512	573163	580520	578413	580930	581941	581941	581941
(R=POD has been replaced and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE) (C=the file is closed) (NAI	q q q Source 6416 4 Sec Tws Rng	4 12 24S 27E	4 12 24S 27E	4 12 24S 27E	4 12 24S 27E	Shallow 4 1 1 23 23S 27E	Shallow 4 1 1 23 23S 27E	Shallow 4 1 1 23 23S 27E	2 2 30 23S 27E	4 4 3 24 23S 27E	1 1 23 23S 27E	Shallow 4 3 4 12 24S 27E	Shallow 1 4 3 31 23S 28E	1 4 3 31 23S 28E	Shallow 1 4 3 31 23S 28E
(R=POD has been replaced and no longer serves this file C=the file is closed)	Well Tag Code Grant														
	nty POD Number	SP 01927	SP 01927	SP 01927	SP 01927	C 00231 AS	C 00498	C 00498	C 01353	C 03197	C 01283	C 03037	C 02022	C 02955	C 02022
	County	SA ED	ED		ED	OP ED	ED	ED	ED	ED	ED	Ξ	ED	G	a
(acre ft per annum)	Sub basin Use Diversion Owner	2800 UNITED STATES OF AMERICA	2413.209 D.R. HARKEY	108.596 DANIEL BEACH	5067.79 EDWARD F. JUDKIN	201.6 MALAGA WATER USERS CO-OP	9 YGNACIO LOPEZ	0 MALAGA WATER USERS ASSOCIATION	0 MALAGA W.U.A.	3 TANA MUNOZ	3 YGNACIO LOPEZ	3 GEORGE BRANTLEY	0 AMOCO PRODUCTION COMPANY	0 MARBOB ENERGY	0 NADEL & GUSSMAN
(acn	Sub pasin Use [CUB MDW	CUB IRR	CUB IRR	CUB IRR	CUB MDW	CUB IRR	CUB IRR	CUB EXP	C DOL	C DOM	C DOL	C PRO	C PRO	C PRO
	WR File Nbr b	SP 01927 4	SP 01927 5	SP 01927 6	SP 01927 7	C 00231 A	C 00498	C 00498 ENL	C 01353	C 03197	C 01283	C 03037	C 02022	C 02955	C 03218

Record Count: 96

UTMNAD83 Radius Search (in meters):

Easting (X): 576990.2 Northing (Y): 3568813.47

Radius: 5000

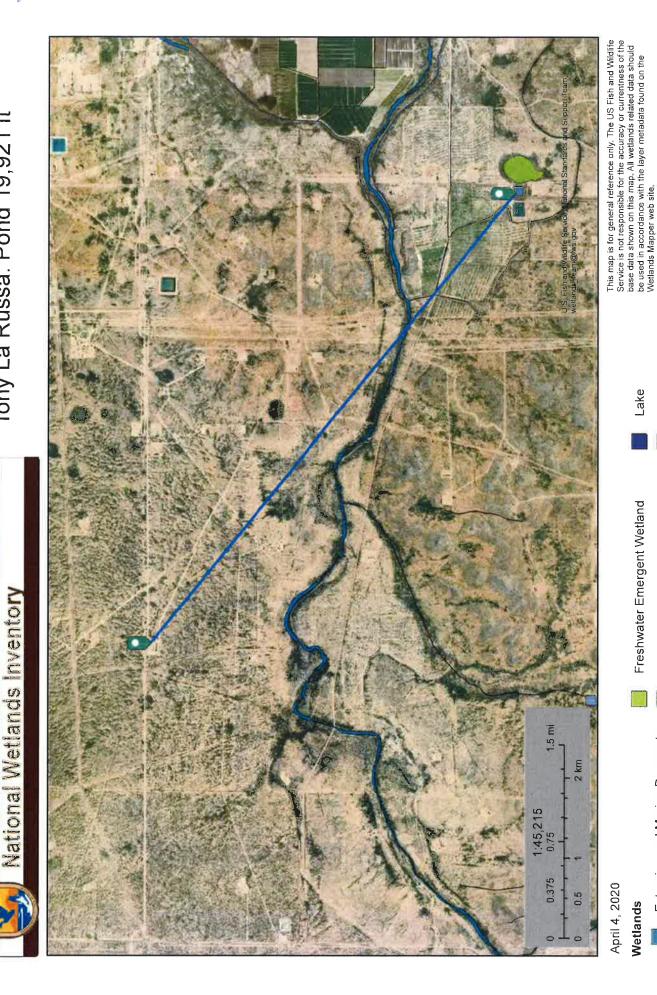
Sorted by: Distance

*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.

Tony La Russa: Pond 19,921 ft

U.S. Fish and Wildlife Service



National Wetlands Inventory (NWI) This page was produced by the NWI mapper

Other Riverine

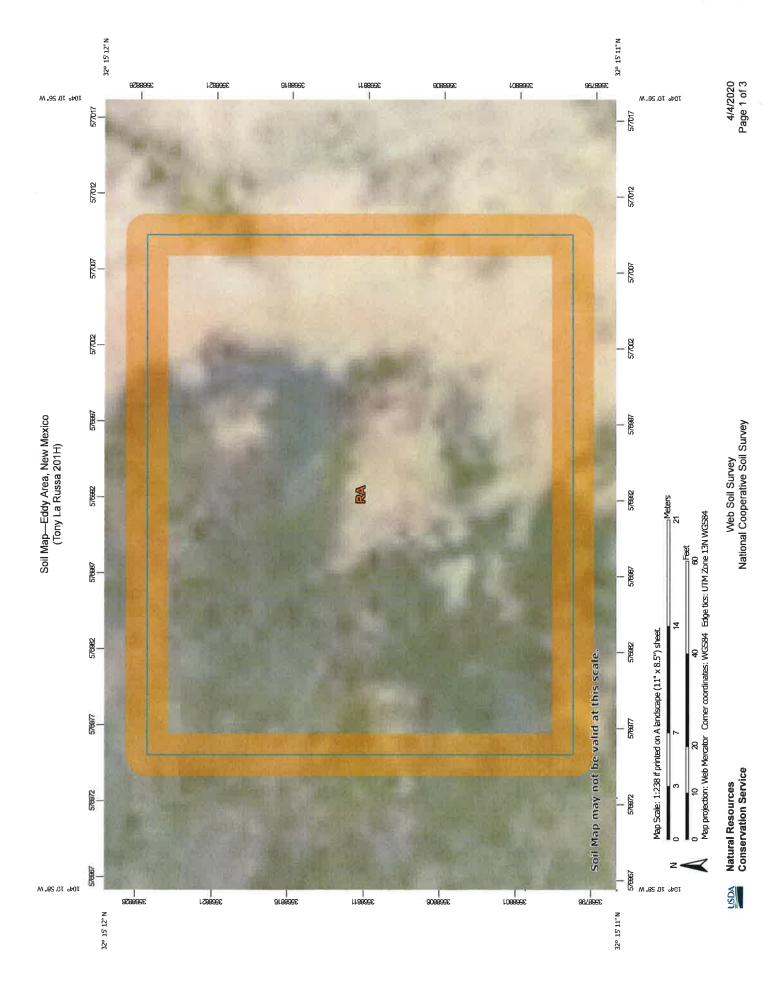
Freshwater Forested/Shrub Wetland

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Pond





Soil Map—Eddy Area, New Mexico (Tony La Russa 201H)

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at

contrasting soils that could have been shown at a more detailed misunderstanding of the detail of mapping and accuracy of soil Enlargement of maps beyond the scale of mapping can cause line placement. The maps do not show the small areas of Warning: Soil Map may not be valid at this scale scale.

Please rely on the bar scale on each map sheet for map measurements. Source of Map: Natural Resources Conservation Service Coordinate System: Web Mercator (EPSG:3857) Web Soil Survey URL:

distance and area. A projection that preserves area, such as the Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Eddy Area, New Mexico Version 15, Sep 15, 2019 Survey Area Data: Soil Survey Area:

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger. Date(s) aerial images were photographed: Dec 31, 2009—Jun 10, 2017

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

MAP LEGEND

Special Line Features Very Stony Spot Stony Spot Spoil Area Wet Spot Other W 8 £30 <) Soil Map Unit Polygons Area of Interest (AOI) Soil Map Unit Points Soil Map Unit Lines Special Point Features Area of Interest (AOI)

Streams and Canals Water Features

Interstate Highways Rails Transportation ŧ

Closed Depression

 \Diamond X

Borrow Pit

Blowout

9

Clay Spot

Major Roads US Routes

Gravelly Spot

Gravel Pit

Local Roads

Aerial Photography

Background

Marsh or swamp

Lava Flow

Landfill

Wine or Quarry

* 0

Miscellaneous Water

Perennial Water

Rock Outcrop 0

Saline Spot Sandy Spot

Sinkhole

Severely Eroded Spot

d

Slide or Slip

Sodic Spot

Conservation Service Natural Resources

NSDA

National Cooperative Soil Survey

Web Soil Survey

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
RA	Reagan loam, 0 to 3 percent slopes	0.2	100.0%
Totals for Area of Interest		0.2	100.0%

Eddy Area, New Mexico

RA—Reagan loam, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 1w5c Elevation: 1,100 to 4,400 feet

Mean annual precipitation: 7 to 14 inches Mean annual air temperature: 60 to 70 degrees F

Frost-free period: 200 to 240 days

Farmland classification: Farmland of statewide importance

Map Unit Composition

Reagan and similar soils: 98 percent Minor components: 2 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

Description of Reagan

Setting

Landform: Alluvial fans, fan remnants Landform position (three-dimensional): Rise

Down-slope shape: Linear, convex Across-slope shape: Linear

Parent material: Alluvium and/or eolian deposits

Typical profile

H1 - 0 to 8 inches: loam H2 - 8 to 60 inches: loam

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water (Ksat):

Moderately high to high (0.60 to 2.00 in/hr) Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum in profile: 40 percent

Salinity, maximum in profile: Very slightly saline to moderately

saline (2.0 to 8.0 mmhos/cm)

Sodium adsorption ratio, maximum in profile: 1.0

Available water storage in profile: Moderate (about 8.2 inches)

Interpretive groups

Land capability classification (irrigated): 2e Land capability classification (nonirrigated): 6e

Hydrologic Soil Group: B

Ecological site: Loamy (R042XC007NM)



Hydric soil rating: No

Minor Components

Upton

Percent of map unit: 1 percent Ecological site: Shallow (R042XC025NM) Hydric soil rating: No

Atoka

Percent of map unit: 1 percent Ecological site: Loamy (R042XC007NM) Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 15, Sep 15, 2019



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

(A CLW###### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is

closed)

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

(quarters are smallest to largest)

(NAD83 UTM in meters) (In feet)

water right ine.)	010301	۵)	(444				IIGIIOC	ic to luli,	goot	(14)	IDOO O INI III I	notors,	, , , , , , , , , , , , , , , , , , ,	11 1001/	
		POD Sub-		0	0	^									Z N	
POD Number	Code		County	-	Q 16		Sec	Tws	Rng		X	Υ	Distance			Water Column
C 03031		С	ED	1	3	3	35	23S	27E	5783	15	3569206* 🥌	1381	150	67	83
C 00364	С	CUB	ED		1	2	09	24S	27E	5759	97	3567043*	2030	2270		
C 00821		С	ED		3	2	09	24S	27E	5759	96	3566635* 🥌	2394	97	50	47
C 00850		С	ED		2	3	09	24S	27E	5755	95	3566223*	2942	108	35	73
C 02453		С	ED	4	4	2	29	23S	27E	5748	76	3571372*	3319	210	175	35
C 01366		CUB	ED			4	80	24S	27E	5745	90	3566003* 🍧	3695	60	35	25
C 02377		С	ED			2	29	23S	27E	5745	75	3571666* 🥌	3737	232	170	62
C 00518 POD2		CUB	ED	2	4	4	22	23S	27E	5781	05	3572431* 🥌	3785	220	98	122
C 00516		CUB	ED	1	3	4	80	24S	27E	5742	88	3565901* 🌑	3972	105	36	69
C 00516 CLW201016	0	CUB	ED	1	3	4	80	24\$	27E	5742	88	3565901* 🎒	3972	62		
C 00516 CLW308590	0	CUB	ED	1	3	4	80	24\$	27E	5742	88	3565901* 🎳	3972	105	36	69
C 00516 S		CUB	ED	1	3	4	80	248	27E	5742	88	3565901 🍓	3972	50	17	33
C 02567		С	ED	2	1	2	26	23\$	27E	5793	14	3572049* 🌉	3983	187	89	98
C 03489 POD1		CUB	ED	2	4	3	80	24\$	27E	5741	53	3565939 🌑	4038	200		
C 03092		С	ED	4	3	1	80	24S	27E	5736	78	3566501* 貕	4039	54	37	17
C 02112		С	ED	1	3	4	13	21S	24E	5738	31	3571337 🍓	4043	182	119	63
C 00631		С	ED	3	3	4	80	248	27E	5742	88	3565701* 🎳	4121	50	24	26
C 03260 POD1		С	ED	3	3	3	12	248	27E	5799	95	3565935 🍯	4160	80	56	24
C 03260 POD2	0	С	ED	1	3	3	12	24S	27E	5801	00	3565984 🍯	4204	80	56	24
C 00518		CUB	ED	1	1	3	23	23\$	27E	5783	10	3572840* 🎒	4237	178		
C 03147		С	ED	3	3	3	12	24\$	27E	5798	85	3565715 🍓	4239	140		
C 01261		CUB	ED				21	23\$	27E	5757	80	3572889* 🏭	4251	250		
C 00683		С	ED		4	3	80	248	27E	5739	86	3565796*	4257	50	17	33
C 01187		С	ED		4	3	80	24\$	27E	5739	86	3565796*	4257	108	17	91
C 00516 POD6		CUB	ED	1	4	3	08	248	27E	5738	85	3565895*	4261	78	17	61
C 00518 CLW197989	0	CUB	ED	2	1	3	23	238	27E	5785	10	3572840* 🥡	4303	210		

*UTM location was derived from PLSS - see Help

4/3/20 3:56 PM

Page 1 of 2

WATER COLUMN/ AVERAGE DEPTH TO WATER

(A CLW###### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is

closed)

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	PO Su Code bas	b-	2	Q 116	-	Sec	Tws	Rng	X	Y	Distance	The second second	The second second	Water Column
C 00516 POD10	CU	B ED	3	4	3	08	248	27E	573875	3565722 🌑	4388	160	45	115
C 02976	С	ED	4	2	3	12	248	27E	580519	3566195* 🌑	4394	57	27	30
C 03490 POD1	CU	B ED	3	4	3	80	248	27E	573812	3565709	4442	140	23	117
C 03488 POD1	С	ED	4	3	1	23	23S	27E	578430	3573023	4449	217	122	95
C 00347	CU	B ED		1	1	13	24S	27E	580010	3565479*	4498	60	30	30
C 01943	С	ED			1	13	24\$	27E	580221	3565275*	4791	30	25	5
C 00010 CLW191724	o cu	B ED	2	3	2	25	23S	27E	580926	3571666*	4860	259		
C 00231 AS	cu	B ED	4	1	1	23	23S	27E	578512	3573447* 🌑	4877	230	100	130
C 00498	CU	B ED	4	1	1	23	23S	27E	578512	3573447*	4877	210	120	90
C 00498 CLW194833	o cu	B ED	4	1	1	23	23S	27E	578512	3573447*	4877	165	80	85
C 03037	С	ED	4	3	4	12	24S	27E	580930	3565795*	4963	116	25	91

Average Depth to Water: 60 feet

Radius: 5000

Minimum Depth: 17 feet

Maximum Depth: 175 feet

Record Count: 37

UTMNAD83 Radius Search (in meters):

Easting (X): 576990.2 Northing (Y): 3568813.47

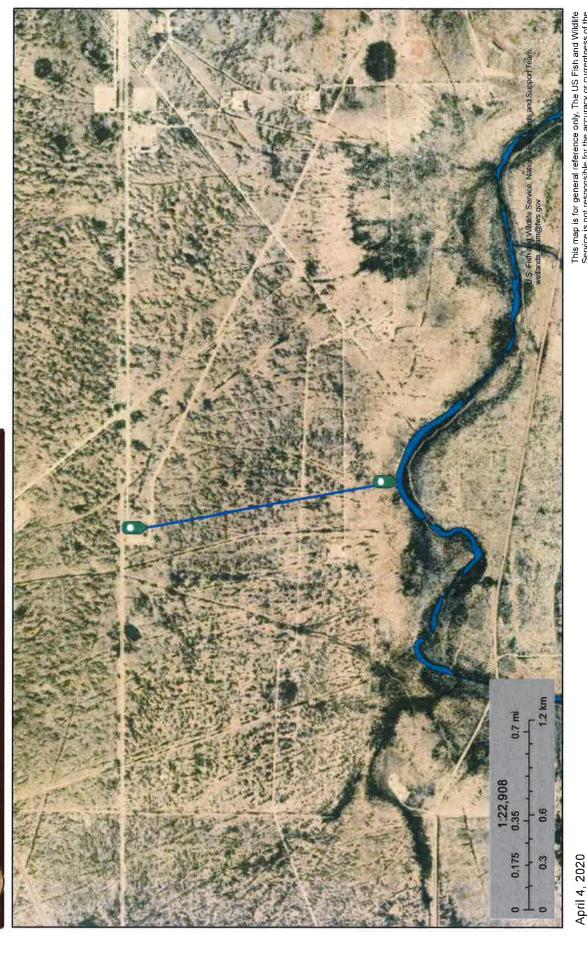
*UTM location was derived from PLSS - see Help

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.

Tony La Russa: Watercourse 4,484 ft

National Wetlands Inventory

U.S. Fish and Wildlife Service



This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

Lake

Other

Riverine

National Wetlands Inventory (NWI) This page was produced by the NWI mapper

WELLS WITH WELL LOG INFORMATION

New Mexico Office of the State Engineer

Wells with Well Log Information

	License	Number	685		46	270	763	30	1348	24		30	30	30	1348	1690	1348	1041
	Depth	Water Driller	67 WAYNE BRAZEAL	TEXAS CO. W-W DRLG. CO.	50 M. ABBOTT	35 C.H. DONOWHO	175 FELKINS, MICHAEL	35 EMMETT BARRON	170	98 BRININSTOOL, M.D.		36 BARRON, EMMETT	36 BARRON, EMMETT	17 NM LICENSED DRILLER	68	JASON MALEY (LD)	37	119 JAMES A. AMOS
(in feet)	Depth D	Well	150	2270	26	108	210	9	232	220		105	105	20	187	200	54	182
	Log File	Finish Date Date	06/16/2004 06/24/2004	07/01/1958	03/01/1958 03/12/1958	09/09/1958 09/22/1958	02/24/1996 04/02/1996	11/26/1966 07/06/1967	05/30/1998 08/24/1998	06/14/2006 08/31/2008	06/27/1972	01/27/1955 03/02/1955	01/27/1955 03/02/1955	03/15/1956 04/18/1956	04/07/1998 05/05/1998	06/28/2011 06/18/2012	05/18/2004 07/16/2004	07/15/1985 11/15/1985
ers)		Distance Start Date	1381 06/10/2004	2030	2394 02/28/1958	2942 09/06/1958	3319 02/24/1996	3695 11/24/1966	3737 05/24/1998	3785 03/15/2006	3812	3972 01/22/1955	3972 01/22/1955	3972 03/10/1956	3983 04/01/1998	4038 06/27/2011	4039 05/17/2004	4043 07/06/1985
(NAD83 UTM in meters)		\	3569206*	3567043*	3566635*	3566223*	3571372*	3566003*	3571666*	3572431*	3571254*	3565901*	3565901*	3565901	3572049*	3565939	3566501*	3571337 🌑
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		×	578315	575997	575996	575595	574876	574590	574575	578105	579919	574288	574288	574288	579314	574153	573678	573831
/4=SE) argest)	b b b	Sec Tws Rng	3 35 23S 27E	1 2 09 24S 27E 575997	3 2 09 24S 27E 57599	2 3 09 24S 27E 5755	4 2 29 23S 27E	4 08 24S 27E 5745	2 29 23S 27E 5745	2 4 4 22 23S 27E 5781	1 3 25 23S 27E	134 08 24S 27E 574;	134 08 24S 27E 5742	1 3 4 08 24S 27E 5742	1 2 26 23S 27E	4 3 08 24S 27E	3 1 08 24S 27E	3 4 13 21S 24E
/4=SE) argest)	b b b	6416 4 Sec Tws Rng	1 3 3 35 23S 27E	2 09 24S 27E	3 2 09 24S 27E	2 3 09 24S 27E	4 4 2 29 23S 27E	4 08 24S 27E	29 23S 27E	4 4 22 23S 27E	1 1 3 25 23S 27E	1 3 4 08 24S 27E	134 08 24S 27E	3 4 08 24S 27E	2 1 2 26 23S 27E	2 4 3 08 24S 27E	4 3 1 08 24S 27E	3 4 13 21S 24E
d, (quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)	b b b	6416 4 Sec Tws Rng	3 35 23S 27E	2 09 24S 27E	2 09 24S 27E	3 09 24S 27E	4 2 29 23S 27E	08 24S 27E	2 29 23S 27E	2 4 4 22 23S 27E	1 3 25 23S 27E	3 4 08 24S 27E	3 4 08 24S 27E	134 08 24S 27E	1 2 26 23S 27E	4 3 08 24S 27E	3 1 08 24S 27E	4 13 21S 24E
/4=SE) argest)	POD Sub- q q q	Sec Tws Rng	Shallow 1 3 3 35 23S 27E	1 2 09 24S 27E	Shallow 3 2 09 24S 27E	Shallow 2 3 09 24S 27E	Shallow 4 4 2 29 23S 27E	Shallow 4 08 24S 27E	Shallow 2 29 23S 27E	Shallow 2 4 4 22 23S 27E	Shallow 1 1 3 25 23S 27E	Shallow 1 3 4 08 24S 27E	Shallow 1 3 4 08 24S 27E	Shallow 1 3 4 08 24S 27E	Shallow 2 1 2 26 23S 27E	Shallow 2 4 3 08 24S 27E	Shallow 4 3 1 08 24S 27E	Shallow 1 3 4 13 21S 24E

*UTM location was derived from PLSS - see Help 4/3/20 3:57 PM

Page 1 of 3

the POD suffix indicates the POD suffix indicates the PoD has been replaced & no longer serves a water right file.)	(R=POD has been replaced O=orphaned, C=the file is closed)		(quarters are 1=NW 2=NE 3=SW 4	s are 1=NW 2=NE 3=SW 4 (quarters are smallest to lar	=NW 2	≥=NE 3: smalles	=SW 4=SE) st to largest)	(NAI	(NAD83 UTM in meters)	iters)					(in feet)	(16)		
	POD Sub-			9	0									Log File	Depth	Depth		License
	Code basin County	ounty	Source	e 64164	34 Sec		Tws Rng	×	>	Distance	e Start Date		Finish Date Date	Date		Water Driller		Number
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	O		Shallow	8 8	3 12	2 24S	27E	579995	3565935	4160	0 11/02/2008		11/02/2008	11/07/2008	80	56		1348
	0	ED	Shallow	w 1 3	3 12	2 24S	27E	580100	3565984	4204	4 11/02/2008		11/02/2008	11/07/2008	80	56		1348
	CUB	ED	Shallow		3 23	3 23S	27E	578310	3572840*	4237	2	70	07/31/1957	09/30/1958	178	NM LIC	NM LICENSED DRILLER	24
	ပ			ю 8	3 12	2 24S	27E	579885	3565715 🌑	4239	9 03/10/2005		03/11/2005	03/21/2005	140			1348
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	O	ED	Shallow	8	3 08	8 24S	27E	573986	3565796*	4257	7 03/08/1956		03/10/1956	03/27/1956	50	17		30
	O	ED	Shallow	.≱ 4	3 08	8 24S	27E	573986	3565796* 🌑	4257	7 05/24/1964		05/28/1964	06/01/1964	108	17 SPENC	17 SPENCER, DAVID A.	138
	CUB	ED	Shallow	4	3 08	8 24S	27E	573885	3565895*	4261	1 05/08/2006		05/09/2006	07/31/2006	78	17 CLINT TAYLOR	TAYLOR	1348
	CUB	ED	Shallow	⊗ 4	3 08	8 24S	27E	573875	3565722 🌑	4388	8 08/21/2018		08/22/2018	09/24/2018	160	45 JASON MALEY	I MALEY	1690
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	O	ED	Shallow	۸ 4	1 23	3 23S	27E	578430	3573023 🌑	4449	9 05/08/2011		05/10/2011	05/31/2011	217	122 TAYLO	122 TAYLOR, CLINTON E.	1348
	CUB	ED	Shallow	× -	1 13	3 24S	27E	580010	3565479*	4498	3 07/02/1974		06/25/1976	07/01/1976	9	30 BRININ	30 BRININSTOOL, M.D.	24
	O				1 13	3 24S	27E	580221	3565275* 🌑	4791	1 09/15/1981		09/25/1981	06/11/1982	30	25 DON TH	25 DON THOMPSON	961
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	CUB	ED	Shallow	4 1	1 23	3 23S	27E	578512	3573447*	4877	7 01/27/1954		01/31/1954	03/30/1955	210	120 SAM S. SMITH	. SMITH	108
C 00498 CLW194833	O CUB	ED	Shallow	.× 4 ←	1 23	3 235	27E	578512	3573447*	4877	7 01/27/1954		12/31/1908	03/30/1955	165	BO UNKNOWN	NWC	108
	O	ED	Shallow	× 4 8	4 12	2 245	27E	580930	3565795*	496	4963 07/30/2004		07/31/2004	09/13/2004	116	25		1348

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(in feet)	Depth Depth Well Water Driller
	Log File Finish Date Date
meters)	Log F Distance Start Date Finish Date Date
(NAD83 UTM in meters)	> ×
(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)	POD Sub- Code basin County Source 6416 4 Sec Tws Rng
(R=POD has been replaced, O=orphaned, C=the file is closed)	POD Sub- Code basin Count
(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	POD Number

Record Count: 35

UTMNAD83 Radius Search (in meters):

Easting (X): 576990.2

Northing (Y): 3568813.47

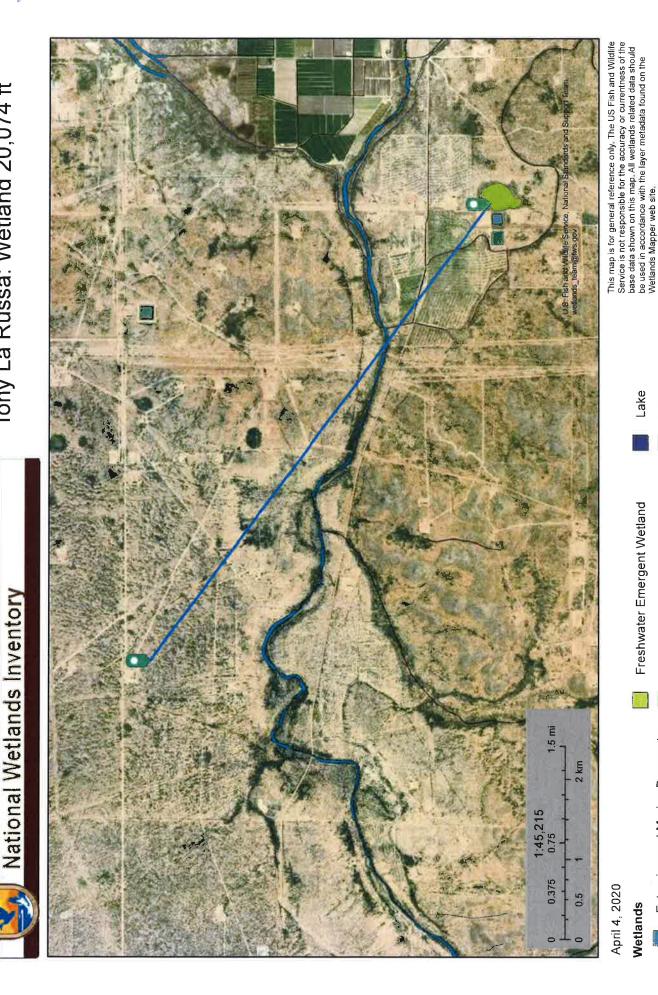
Radius: 5000

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.

WELLS WITH WELL LOG INFORMATION

Tony La Russa: Wetland 20,074 ft

U.S. Fish and Wildlife Service



National Wetlands Inventory (NWI) This page was produced by the NWI mapper

Riverine Other

Freshwater Forested/Shrub Wetland

Estuarine and Marine Deepwater Estuarine and Marine Wetland

Freshwater Pond

ATTACHMENT 4

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-7.7	UMF	
	307	

Spill Resp	onse and	Sampling					V	ERTEX
Client:		Mata	dor 20 La P		Initial Spill Information - Re	cord on First	Visit	
Date:		12/21	20		Spill Date:			
Site Name:	2	Tony	Lap	nussa	Spill Volume:			
Site Location:					Spill Cause:			
Project Owner:					Spill Product:			
Project Manager:		Recoll.	ection		Recovered Spill Volume:			
Project #:					Recovery Method:			
			Field Screening	Sampling	Data Collection	Check for V	95)	
Sample ID	Depth (ft)	VOC (PID)	PetroFlag TPH (ppm)	Quantab (High/Low) + or -	tab Analysis	Picture	Trimble Coordinates	Marked on Site Sketch
SS/TP/BH - Year - Number Ex. BH1,8-01	Ex. '2ft	Ex. 400 ppm	200 ppm	Ex. 'High+	Ex. Hydrocarbon Chloride			
B52	0.5			0.07/17.6	8:10			
WS10	0.5			0.10/16.8	8:20			
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		1	-			-		
		-				-		
								-
			-					

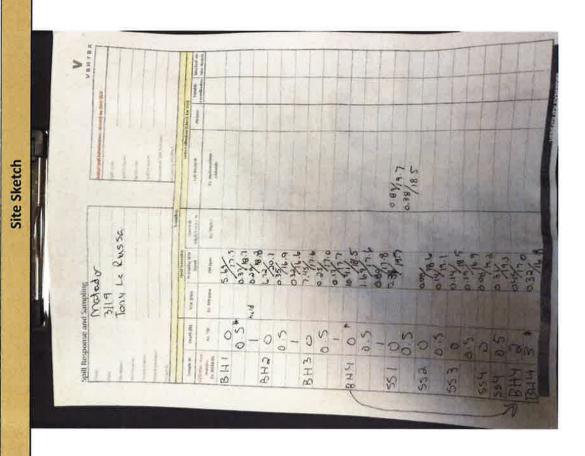


			\u
Client:	Matador Resources	Inspection Date:	3/19/2020
Site Location Name:	Tony La Russa State Com 201H/202H	Report Run Date:	3/19/2020 11:36 PM
Project Owner:	John Hurt	File (Project) #:	20E-00239
Project Manager:	Natalie Gordon	API#:	30-015-45964
Client Contact Name:	John Hurt	Reference	3/18/2020 - 12 bbls PW Spill
Client Contact Phone #:			

	Summary of Times
Left Office	3/19/2020 11:41 AM
Arrived at Site	3/19/2020 12:27 PM
Departed Site	3/19/2020 4:00 PM
Returned to Office	3/19/2020 5:26 PM

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Page 3 of 7







Summary of Daily Operations

- 12:41 Characterize spill area on pad and off pad. Delineation vertically and horizontally. Part of spill is behind equipment underneath piping
- 14:08 Area on pad has been driven through and could use possible surface scrape where roadway goes through
- was very loamy in pasture and under pad about 0.5 inches got loamy under what they used to build the pad. Top 0.5 inches was very 16:27 Area off pad on the east side seems to have been deepest spot to clean up, fluid seemed to have puddled up and sat in this area. Soil rocky and hard packed

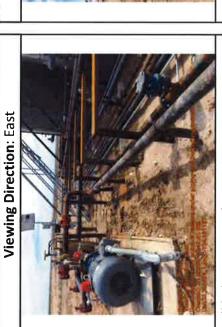
Next Steps & Recommendations

- 1 Wait on lab analysis
- 2 Get six inch scrape completed to keep chlorides from going any deeper
- 3 Develop work plan for remediation on off pad area in pasture
- 4 Possibly scrape roadway on pad for possible tracking of pw via vehicles



Site Photos

Viewing Direction: East



Spill behind point of release under piping and behind equipment



Spill area on pad north of point of release



Spill area on pad leading to spill going to offpad area



Spill area on north side of point of release towards risers

Run on 3/19/2020 11:36 PM UTC

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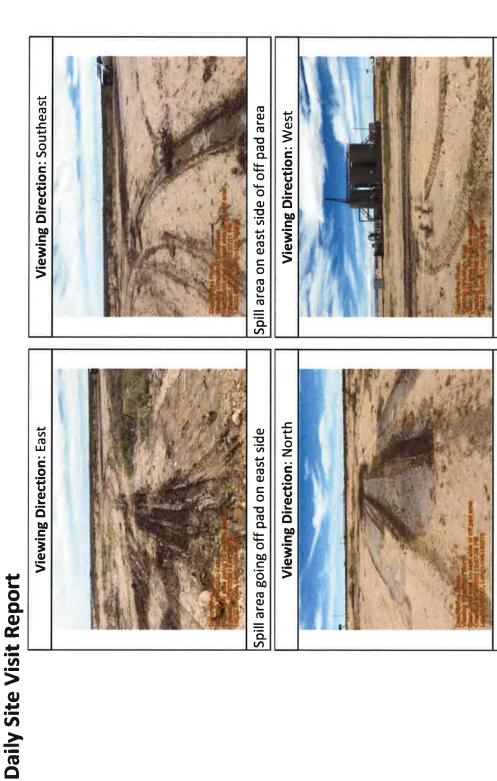
Page 6 of 7

Spill area off pad on east side

Spill area on east side of off pad area









Daily Site Visit Signature

Inspector: Monica Peppin

Signature:

מוול אוכ אואר ויכלסור			VERTEX
Client:	Matador Resources	Inspection Date:	4/20/2020
Site Location Name:	Tony La Russa State Com 201H/202H	Report Run Date:	4/20/2020 11:17 PM
Project Owner:	John Hurt	File (Project) #:	20E-00239
Project Manager:	Natalie Gordon	API#:	30-015-45964
Client Contact Name:	John Hurt	Reference	3/18/2020 - 12 bbls PW Spill
Client Contact Phone #:			

Summary of Times

4/20/2020 6:15 AM 4/20/2020 6:50 AM

Returned to Office

Arrived at Site Departed Site

Left Office

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15:33 Excavation to continue into tomorrow. Pasture area is complete with fencing around deeper excavated spot

7:58 Begin excavation of pasture area on east side of tank battery and pad area on north side of tank battery.

Next Steps & Recommendations

- 1 Collect confirmation samples
- 2 Continue guiding excavation with field screens



Site Photos

Viewing Direction: South



Pasture excavation depth of 2 ft



Hand dig area around equipment on north side of containment



Excavated area where spill had went into pasture



Start of excavation on pad







Excavation area coming from off pad to pasture



Fenced in area around spot excavated to 2 ft



Daily Site Visit Signature

Inspector: Monica Peppin

Signature:

Released to Imaging: 6/4/2021 2:04:08 PM



Client:	Matador Resources	Inspection Date:	4/21/2020
Site Location Name:	Tony La Russa State Com 201H/202H	Report Run Date:	4/21/2020 8:33 PM
Project Owner:	John Hurt	File (Project) #:	20E-00239
Project Manager:	Natalie Gordon	API#:	30-015-45964
Client Contact Name:	John Hurt	Reference	3/18/2020 - 12 bbls PW Spill
Client Contact Phone #:			

	Summary of Times
Left Office	4/21/2020 6:30 AM
Arrived at Site	4/21/2020 7:00 AM
Departed Site	4/21/2020 1:10 PM
Returned to Office	

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Site Sketch

Interpretation (Interpretation	Species to Acceptable	Cole Application	To, teptimentality specialis																			
ssa	A STATE OF THE STA	District of	Secretary .	07/23.1	0.45/306	0.40/93.8	0.31/31.5	0.00	0.34/260	0.34/33.4	09,27.5	8.25%	3.90%	0.50	0.20/01	0.34	0.31/21.3	0.30/29	6.03/60.0	0.35/52.1.	3/3.9	
Tony La Aussa		Presides TVI figured	Marian	i					k		i											
18		WAC (PIB)	EL 478 1944	11.15	11:25	11:35	11:45	55:11	15:05	13:15	Se: 61	11.06	4:30	04:40	9:50	101.00	10.10	10:20	10:30	-	10: So	
	1	See and Section 1	ar.30	Ó. ×	0.5	0.5	8-5	6.0	0	6	a	5.0.0	5.0-0	5.0-0	50-0	0.0.0	6 0	6-0	o o	0.0.0	0.0.5	
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				1	3	29	and BS	7	Town .	too	tot	pad	and	pro ms	post US	part WS	trid	pest.	SM trad	twd	pool	

Page 3 of 8







Summary of Daily Operations

9:26 Continue guidance of excavation. Collect confirmation samples throughout excavation of base and side walls, map out excavation area and sample points

Next Steps & Recommendations

- 1 Await lab analysis
- 2 Complete backfill
- 3 Start closure report



Site Photos

Viewing Direction: South



Pad area excavated on north side of containment

Hand dig area underneath equipment



Excavated area following road way from pad to pasture excavation





Excavated area on pad going towards pasture

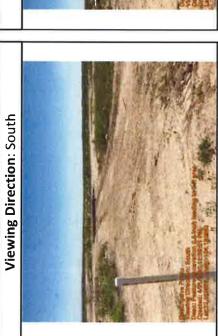
Run on 4/21/2020 8:33 PM UTC

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VERTEX

Powered by www.krinkleldar.com

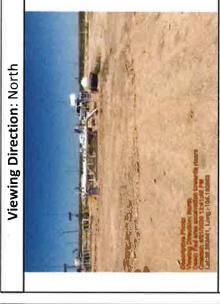
Daily Site Visit Report



Pasture excavation 0.5 inch leading to 2 ft area



2 ft excavation area on east side of pad in pasture



Pad area excavation towards risers





2 ft excavation area going back towards pad area where 0.5 inch excavation occurred

Run on 4/21/2020 8:33 PM UTC

Page 7 of 8





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Run on 4/21/2020 8:33 PM UTC



Daily Site Visit Signature

Inspector: Monica Peppin

Signature:

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everby certify that the above listed material(s), is (are) not a hi		art 261 or any applicable	state law. That each waste has been	en property described, classified and
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The second second second second second	GENERATOR	NO. If COOKED
person No.	Permit/ARC No.	- Walle Co. May 135
perators Number Meritaglic Resurres	Lease/Well Name & No.	Trees la River St la Tes
Mress	County	301 015-11501-11
Sy. State 21p	API No. Rig Name & No.	
one No. 940 391 /36 /977	371. 11 #27 AFE/PO No.	the first than the same
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WANTITY	B BARRELS	7-Y-YARDS E EACH
The state of the s		le state luw. That each waste has been properly described, classified and
loud basis only)		e not mixed with non-exempt waste (R360 Accepts certifications on a per waste hazardous by characteristics established in ACRA regulations, 40 G
361-21-261.24, or listed huzare		nended. The following documentation demonstrating the waste as non-
M505 information	RCRA Harandous Waste Analysis	Other (Provide Description Relow)
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Josh Kidaya	4.20.70	
Joshan Kidaya	DATE OF THE PARTY	District.
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ransporter's Indiana and a Elastic disease a	TRANSPORTER Oriver's Name Print Name	DESCRIPTION OF THE PROPERTY OF
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ransporter's lamie debrens Phone No. TRUCK TIME STAMP OUT: Site Name/ Permit No. Address Socia US Highway 205, Orla, TX 79778 NORMA READINGS TAKEN? (Circle One) Chloride Chloride Chloride Chloride Chloride Chloride	TRANSPORTER Oriver's Name Print Name Phone No. Truck No. Truck No. DISPOSAL FACILITY Phone No. (If YES, was read Candictivity (mmhos/cm) TANK BOTTOMS	Trock Para Trock Para
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ATTACHMENT 5

Client Name: Matador Production Company Site Name: Tony La Russa State Com 201H/202H NM OCD Tracking Number: NRM2008758101

Project #: 20E-00239-006 Lab Report: 2003982

		Table 2. Characteri	zation Sam	ple Field S	creening a	nd Laborate	ory Data - I	Depth to G	roundwate	r 50 < 100 i	ft		
	Sample Descripti	on	F	ield Screenii	1g			Petroi	eum Hydroc	arbons			Inorganic
				27		Vol	atile			Extractable			inorganic
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds (PID)	Extractable Organic Compounds (Petro Flag)	Inorganics (Quantab • High/Low)	Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	Chloride
			(ppm)	(ppm)	(+/-)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BH 20-01	0	March 19, 2020		*	8,265	- 10	*	100		*			- 19
BH 20-01	0.5	March 19, 2020	3		535	25	- 2:		_ 88	197			250
BH 20-01	1	March 19, 2020	_ S		419	20		F (a)	760	2/	- 74	- 2	- 9
BH 20-02	0	March 19, 2020	- 5	- 8	9,639	- 52	*:		180	20			
BH 20-02	0.5	March 19, 2020	*:		584			160	1.00	(4)		24	- 14
BH 20-02	1	March 19, 2020	2	2	554	- €	÷	(#)	200	- Sa		- 82	- 1
BH 20-03	0	March 19, 2020	- 8-		10,801	- 5		1.00	17.5	-			
BH 20-03	0.5	March 19, 2020			435		•	(*)	100			54	
BH 20-03	1	March 19, 2020	*	*	290		•:	1.00		91	:+	₹ ÷	
BH 20-04	0	March 19, 2020		-	15,034	1	. 2		- G		- 5	- 3	16,000
BH 20-04	0.5	March 19, 2020			2,488	*:	*:	183	:::::	3.		- 1	
BH 20-04	1	March 19, 2020			1,195	*:	•	18	1.00	-	- 14	- 1	
BH 20-04	2	March 19, 2020			724	- 1		769	- 155	- 4	7.	- 14	- 4
BH 20-04	3	March 19, 2020	- 3	25	545		167	72		727	12	- 12	100
SS 20-01	0	March 19, 2020	8		1,242	•		15.	785	12		1.0	
SS 20-01	0,5	March 19, 2020			558		162	i e:		191			
SS 20-02	0	March 19, 2020	23		125	1.0	1.5	V.S.	727	2.7	Q.	- 32	- 1
SS 20-02	0.5	March 19, 2020	T.		186	18		7.5			-		-
SS 20-03	0	March 19, 2020	*	**	212) *		9	7.5	- 2	- 3
SS 20-03	0.5	March 19, 2020	*	**	353		160	(e)	- 38		34		*
SS 20-04	0	March 19, 2020	-	- 2	95	- 4			-	- 5	- %	- ii-	- 3
SS 20-04	0,5	March 19, 2020			414		- •		1.5	7.		-	

[&]quot;-" Not assessed/analyzed

Bold and shaded indicates exceedance outside of applied action level



Client Name: Matador Production Company Site Name: Tony La Russa State Com #201H/202H NM OCD Incident Tracking #: NRM2008758101

Project #: 20E-00239-006

Lab Report: 2004997/2004999/2012234

		Table 3. Confirm	the second second second			d Laborato	ry Data: De						
	Sample Descripti	on	F	ield Screenii	ng.			Petrol	eum Hydroc				Inorganio
				(9)	_	Vol	atile			Extractable			morganic
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds (PID)	Extractable Organic Compounds (Petro Flag)	inorganics (Electroconductivity)	Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	Chloride
			(ppm)	(ppm)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BS 20-01	0.5	April 21, 2020	· ·		921	<0,024	<0,219	<4,9	<9,4	<47	<14.3	<61,3	200
BS 20-02	0.5	April 21, 2020		- 2	856	<0,025	<0.221	<4.9	<9.7	<48	<14.6	<62,6	790
BS 20-02	0,5	December 2, 2020				<0,025	<0.224	<5.0	<9.9	<49	<14.9	<63.9	<60
BS 20-03	0.5	April 21, 2020	*		357	<0,025	<0.221	<4.9	<9.7	<48	<14.6	<62.6	230
BS 20-04	0.5	April 21, 2020	25		<0	<0.025	<0.221	<4.9	<9.5	<48	<14.4	<62.4	170
BS 20-05	0.5	43942	99)		<0	<0.024	<0.213	<4.7	<9.6	<48	<14.3	<62.3	<60
BS 20-06	2	43942			175	<0.024	<0.217	<4.8	<9.5	<47	<14,3	<61.3	140
BS 20-07	2	43942			<0	<0.024	<0,213	<4.7	<9.8	<49	<14.5	<63.5	63
BS 20-08	2	43942	-		52	<0,023	<0.207	<4.6	<9.7	<48	<14.3	<62.3	100
WS 20-01	0-0,5	April 21, 2020		-	905	<0.025	<0.222	<4.9	<9.5	<47	<14.4	<61.4	380
WS 20-02	0-0.5	April 21, 2020			683	<0,024	<0.215	<4.8	<9.3	<47	<14.1	<61.1	330
WS 20-03	0-0.5	April 21, 2020	74		969	<0.024	<0.219	<4.9	<9.4	<47	<14.3	<61,3	250
WS 20-04	0-0.5	43942	- 4	2 1	<0	<0.024	<0.216	<4.8	<9.8	<49	<14.6	<63.6	<60
WS 20-05	0-0.5	43942			387	<0.024	<0.217	<4.8	<9.6	<48	<14.4	<62.4	260
WS 20-06	0-2	43942			335	<0.023	<0,207	<4.6	<9.6	<48	<14.2	<62.2	220
WS 20-07	0-2	43942		ē.	22	<0.023	<0.208	<4.6	<10	<50	<14.6	<64.6	82
WS 20-08	0-2	43942	*		8	<0.025	<0.224	<5.0	<9.3	<47	<14,3	<61.3	120
WS 20-09	0-0.5	43942			<0	<0.025	<0.221	<4.9	<9.9	<50	<14.8	<64.8	250
WS 20-10	0-0.5	April 21, 2020	- 8	*	<0	<0.025	<0.224	<5.0	<9.4	<47	<14.4	<61.4	1,800
WS 20-10	0-0.5	December 2, 2020	==			<0,025	<0.221	<4,9	<9.8	<49	<14,7	<63.7	<60

[&]quot;-" - Not assessed/analyzed

Green shading indicates samples from off-lease.

Bold and grey shaded indicates exceedance outside of, or near, NM OCD Closure Criteria
Bold and green-shaded indicates recollection of sample previously exceeding NM OCD Closure Criteria



ATTACHMENT 6

Natalie Gordon

From:

Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Sent:

Thursday, April 16, 2020 4:01 PM

To:

Natalie Gordon

Subject:

Fwd: NRM2008758101: Tony La Russa State Com 201H/202H - 48-hr Notification of

Confirmation Sampling

----- Forwarded message ------

From: Dhugal Hanton < vertexresourcegroupusa@gmail.com >

Date: Thu, Apr 16, 2020 at 4:00 PM

Subject: NRM2008758101: Tony La Russa State Com 201H/202H - 48-hr Notification of Confirmation Sampling

To: Bratcher, Mike, EMNRD < Mike.Bratcher@state.nm.us>, Venegas, Victoria, EMNRD < Victoria.Venegas@state.nm.us>,

Hamlet, Robert, EMNRD < Robert.Hamlet@state.nm.us>, < rmann@slo.state.nm.us>

ΑĪΙ,

Please accept this email as 48-hr notification that Vertex Resource Services has scheduled remediation field activities and confirmatory sampling to be conducted at Tony La Russa for the produced water release that occurred on March 18, 2020, incident tracking # NRM2008758101.

This work will be completed on behalf of Matador Production Company.

On Monday, April 20, 2020 at approximately 8:00 a.m., Monica Peppin of Vertex will be onsite to guide remediation activities. On Tuesday, April 21, 2020 starting at approximately 8:00 a.m. she will begin collecting confirmatory sampling as the remediation activities finish up. Monica can be reached at 575-361-9880. If you need directions to the site, please do not hesitate to contact her. If you have any questions or concerns regarding this notification, please give me a call at 505-506-0040.

Thank you, Natalie

Natalie Gordon

Project Manager

Vertex Resource Group Ltd. 213 S. Mesa Street Carlsbad, NM 88220

P 575.725.5001 ext 709 C 505.506.0040 F

www.vertex.ca

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Natalie Gordon

From: Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Sent: Friday, November 27, 2020 3:07 PM

To: Natalie Gordon

Subject: Fwd: NRM2008758101: Tony La Russa State Com 201H/202H - 48-hr Notification of

Confirmatory Sampling

----- Forwarded message -----

From: Dhugal Hanton < vertexresourcegroupusa@gmail.com >

Date: Fri, Nov 27, 2020 at 3:01 PM

Subject: NRM2008758101: Tony La Russa State Com 201H/202H - 48-hr Notification of Confirmatory Sampling To: Enviro, OCD, EMNRD < OCD. Enviro@state.nm.us >, < spills@slo.state.nm.us >, < rmann@slo.state.nm.us >

All,

Please accept this email as 48-hr notification that Vertex Resource Services has scheduled additional remediation field activities and confirmatory sampling to be conducted at Tony La Russa for the produced water release that occurred on March 18, 2020, incident tracking # NRM2008758101.

This work will be completed on behalf of Matador Production Company.

On Wednesday, December 2, 2020 at approximately 8:00 a.m., Monica Peppin of Vertex will be onsite to guide additional remediation activities and conduct additional confirmatory sampling. She can be reached at 575-361-9880. If you need directions to the site, please do not hesitate to contact her. If you have any questions or concerns regarding this notification, please give me a call at 505-506-0040.

Thank you, Natalie

Natalie Gordon

Project Manager

Vertex Resource Group Ltd. 213 S. Mesa Street Carlsbad, NM 88220

P 575.725.5001 ext 709 C 505.506.0040

www.vertex.ca

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ATTACHMENT 7



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

OrderNo.: 2003982

March 30, 2020

Natalie Gordon

Vertex Resource Group Ltd.
213 S. Mesa St
Carlsbad, NM 88220
TEL: (505) 506-0040

FAX:

RE: Tony La Russa State Com 201H

Dear Natalie Gordon:

Hall Environmental Analysis Laboratory received 4 sample(s) on 3/21/2020 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

andel

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order: 2003982

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/30/2020

CLIENT: Vertex Resource Group Ltd. Lab Order: 2003982

Project: Tony La Russa State Com 201H

Lab ID: 2003982-001 **Collection Date:** 3/19/2020 12:20:00 PM

Client Sample ID: BH20-01 0.5' Matrix: SOIL

Analyses Result RL Qual Units DF Date Analyzed Batch ID

EPA METHOD 300.0: ANIONS Analyst: JMT

Chloride 250 60 mg/Kg 20 3/26/2020 1:57:21 PM 51338

Lab ID: 2003982-003 **Collection Date:** 3/19/2020 1:00:00 PM

Client Sample ID: BH20-04 0' Matrix: SOIL

Analyses Result RL Qual Units DF Date Analyzed Batch ID

 EPA METHOD 300.0: ANIONS
 Analyst: JMT

 Chloride
 16000
 600
 mg/Kg
 200
 3/27/2020 4:19:33 PM
 51338

Lab ID: 2003982-004 **Collection Date:** 3/19/2020 1:20:00 PM

Client Sample ID: BH20-04 3' Matrix: SOIL

Analyses Result RL Qual Units DF Date Analyzed Batch ID

 EPA METHOD 300.0: ANIONS
 Analyst: JMT

 Chloride
 100
 60
 mg/Kg
 20
 3/26/2020 2:22:03 PM
 51338

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 1 of 2

Hall Environmental Analysis Laboratory, Inc.

WO#:

2003982

30-Mar-20

Client:

Vertex Resource Group Ltd.

Result

Project:

Tony La Russa State Com 201H

Sample ID: MB-51338

SampType: mblk

TestCode: EPA Method 300.0: Anions

Client ID: PBS

Batch ID: 51338

PQL

RunNo: 67593

Prep Date: 3/26/2020

Analysis Date: 3/26/2020

SeqNo: 2334120

Units: mg/Kg

HighLimit

RPDLimit Qual

Analyte Chloride

ND 1.5

Sample ID: LCS-51338

SampType: Ics

TestCode: EPA Method 300.0: Anions

Client ID: LCSS Prep Date: 3/26/2020 Batch ID: 51338

RunNo: 67593

Units: mg/Kg

Analysis Date: 3/26/2020

SeqNo: 2334121

Analyte

0

Qual

Chloride

SPK value SPK Ref Val %REC LowLimit

%RPD

15.00

14

1.5

92.5

SPK value SPK Ref Val %REC LowLimit 90

HighLimit 110 %RPD

RPDLimit

Qualifiers:

н

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- Not Detected at the Reporting Limit Practical Quanitative Limit POL
- % Recovery outside of range due to dilution or matrix

Holding times for preparation or analysis exceeded

- Analyte detected in the associated Method Blank
- Ε Value above quantitation range Analyte detected below quantitation limits
- Sample pH Not In Range RL Reporting Limit

Page 2 of 2



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental com

Sample Log-In Check List

Completed By: Yange Reviewed By: Chain of Custod 1. Is Chain of Custod 2. How was the same Log In 3. Was an attempt m 4. Were all samples m 5. Sample(s) in prope 6. Sufficient sample vo 7. Are samples (excep	ly sufficiently complete? ple delivered? ade to cool the samples ecclived at a temperature r container(s)?	?	Yes V Courier Yes V		Not Present □	
1. Is Chain of Custoo 2. How was the sam Log In 3. Was an attempt m 4. Were all samples re 5. Sample(s) in prope 6. Sufficient sample ve 7. Are samples (excep	ly sufficiently complete? ple delivered? ade to cool the samples ecclived at a temperature r container(s)?	?	Courier Yes ✓	No □	NA 🗆	
2. How was the same Log In 3. Was an attempt m 4. Were all samples m 5. Sample(s) in prope 6. Sufficient sample vo 7. Are samples (excep	ole delivered? ade to cool the samples ecelved at a temperature r container(s)?	?	Courier Yes ✓	No □	NA 🗆	
 Was an attempt m Were all samples re Sample(s) in prope Sufficient sample ve Are samples (exceptions) 	ecelved at a temperature		Yes 🗹			
 Was an attempt m Were all samples re Sample(s) in prope Sufficient sample ve Are samples (exceptions) 	ecelved at a temperature		Yes 🗹			
 Sample(s) in prope Sufficient sample von Are samples (exception) 	r container(s)?	of >0°C to 6.0°C		No 🗌	🕝	
6. Sufficient sample vo 7. Are samples (excep			,, [3		NA 🗌	
Are samples (excep	dume for indicated test(s		Yes 🗹	No 🗌		
7. Are samples (excep	-	s)?	Yes 🗹	No 🗌		
	t VOA and ONG) proper	ly preserved?	Yes 🗹	No □		
Was preservative ac	ided to bottles?		Yes 🗌	No 🗹	NA 🗆	
9. Received at least 1 y	vial with headspace <1/4	III 60 - 0 0 1 0 4 0				
0. Were any sample co	ontainers received broke	n?	Yes U	No □ No ☑	NA 🗹	
Does paperwork mat (Note discrepancies	ch bottle labels?		Yes 🗹	No 🗌	# of preserved bottles checked for pH:	
2. Are matrices correctl	y identified on Chain of	Custody?	Yes 🗸	🗔	(<2 or	12 unless note
Is it clear what analy:	ses were requested?		Yes 🗹	No ☐	Adjusted?	
 Were all holding time (If no, notify custome 	s able to be met?		Yes 🗹	No 🗌	Checked by: De	10 3/23/20
pecial Handling (ii						
5. Was client notified of	all discrepancies with ti	nis order?	Yes 🗌	No 🗀	NA 🗹	
Person Notified		Dat	e /			
By Whom: Regarding:	A STATE OF THE REAL PROPERTY.	Via:	eMail [] Phone [] Fax	☐ In Person	
Client Instruction	ne.	V-10-10-10-10-10-10-10-10-10-10-10-10-10-		5E 700 E0 E		
Additional remarks:		- 4000	Section 1	<u> </u>	te pre	
Cooler Information Cooler No Temp	مستخدا م	7				
Cooler No Temp	Good Sea	I Intact Seal No	Seal Date	Signed By		
2 0.5	Good					

HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 Analysis Request		A H S M S M S M S M S M S M S M S M S M S	Via: Via: Via: Date Time Via: OUN'I U 3/U/U 080V Madador accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.
Turn-Around Time: S Darl Bright Standard Brush Project Name: Tony La Russa State Cantall Project #: 206 - 20339 - 2012	Project Manager: Notolic Glordon Sampler: NOT P On Ice: Vives # of Coolers: 1 0.3-01-0.1 Cooler Tempination Cry. 0.1-0.1-05(C) Container Preservative HEAL No. Type and # Type	102 107 - 001 - 002 - 003 - 003 - 003	Received by Via: Chull San Date Time Received by: Via: Date Time White San Office of this
Client: Vertex Mailing Address: の、 デルと Phone #:	email or Fax#: QA/QC Package: Standard	11 10-06H3 SEGN 100 H20-06 11 100	Date; Time: Relinquished by: Date: Time: Relinquished by: Received by:



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

OrderNo.: 2004997

April 29, 2020

Natalie Gordon Vertex Resource Group Ltd. 213 S. Mesa St Carlsbad, NM 88220 TEL: (505) 506-0040

FAX

RE: Tony La Russa State Com 201H Pasture

Dear Natalie Gordon:

Hall Environmental Analysis Laboratory received 11 sample(s) on 4/23/2020 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 2004997

Date Reported: 4/29/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd.

Tony La Russa State Com 201H Pasture

Lab ID: 2004997-001

Project:

Matrix: SOIL

Client Sample ID: BS20-04 0.5'

Collection Date: 4/21/2020 11:45:00 AM

Received Date: 4/23/2020 9:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS					Analyst: BRM
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	4/24/2020 5:07:33 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/24/2020 5:07:33 PM
Surr: DNOP	37.4	55.1-146	s	%Rec	1	4/24/2020 5:07:33 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	170	60		mg/Kg	20	4/26/2020 10:46:33 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: JMR
Benzene	ND	0.025		mg/Kg	1	4/27/2020 2:19:13 PM
Toluene	ND	0.049		mg/Kg	1	4/27/2020 2:19:13 PM
Ethylbenzene	ND	0.049		mg/Kg	1	4/27/2020 2:19:13 PM
Xylenes, Total	ND	0.098		mg/Kg	1	4/27/2020 2:19:13 PM
Surr: 1,2-Dichloroethane-d4	81.0	70-130		%Rec	1	4/27/2020 2:19:13 PM
Surr: 4-Bromofluorobenzene	99.2	70-130		%Rec	1	4/27/2020 2:19:13 PM
Surr: Dibromofluoromethane	88.4	70-130		%Rec	1	4/27/2020 2:19:13 PM
Surr: Toluene-d8	95.6	70-130		%Rec	1	4/27/2020 2:19:13 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/27/2020 2:19:13 PM
Surr: BFB	98.5	70-130		%Rec	1	4/27/2020 2:19:13 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 17

Lab Order 2004997

Date Reported: 4/29/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd.

Tony La Russa State Com 201H Pasture

Lab ID: 2004997-002

Project:

Client Sample ID: BS20-05 0.5'

Collection Date: 4/21/2020 11:55:00 AM

Received Date: 4/23/2020 9:40:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: BRM
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	4/27/2020 3:42:04 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	4/27/2020 3:42:04 PM
Surr: DNOP	78.5	55.1-146	%Rec	1	4/27/2020 3:42:04 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	4/26/2020 11:23:32 PM
EPA METHOD 8260B: VOLATILES SHORT LI	ST				Analyst: JMR
Benzene	ND	0.024	mg/Kg	1	4/27/2020 3:44:57 PM
Toluene	ND	0.047	mg/Kg	1	4/27/2020 3:44:57 PM
Ethylbenzene	ND	0.047	mg/Kg	1	4/27/2020 3:44:57 PM
Xylenes, Total	ND	0.095	mg/Kg	1	4/27/2020 3:44:57 PM
Surr: 1,2-Dichloroethane-d4	81.4	70-130	%Rec	1	4/27/2020 3:44:57 PM
Surr: 4-Bromofluorobenzene	100	70-130	%Rec	1	4/27/2020 3:44:57 PM
Surr: Dibromofluoromethane	87.5	70-130	%Rec	1	4/27/2020 3:44:57 PM
Surr: Toluene-d8	94.1	70-130	%Rec	1	4/27/2020 3:44:57 PM
EPA METHOD 8015D MOD: GASOLINE RANG	GE				Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	4/27/2020 3:44:57 PM
Surr: BFB	97.6	70-130	%Rec	1	4/27/2020 3:44:57 PM

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 17

Lab Order 2004997

Date Reported: 4/29/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd.

Project: Tony La Russa State Com 201H Pasture

Lab ID:

2004997-003 Matrix: SOIL Client Sample ID: BS20-06 2'

Collection Date: 4/21/2020 12:05:00 PM

Received Date: 4/23/2020 9:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGAN	NICS					Analyst: BRM
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	4/24/2020 5:55:43 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/24/2020 5:55:43 PM
Surr: DNOP	25.4	55.1-146	S	%Rec	1	4/24/2020 5:55:43 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	140	60		mg/Kg	20	4/27/2020 12:14:51 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: JMR
Benzene	ND	0.024		mg/Kg	1	4/27/2020 5:10:26 PM
Toluene	ND	0.048		mg/Kg	1	4/27/2020 5:10:26 PM
Ethylbenzene	ND	0.048		mg/Kg	1	4/27/2020 5:10:26 PM
Xylenes, Total	ND	0.097		mg/Kg	1	4/27/2020 5:10:26 PM
Surr: 1,2-Dichloroethane-d4	78.0	70-130		%Rec	1	4/27/2020 5:10:26 PM
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	4/27/2020 5:10:26 PM
Surr: Dibromofluoromethane	88.9	70-130		%Rec	1	4/27/2020 5:10:26 PM
Surr: Toluene-d8	94.2	70-130		%Rec	1	4/27/2020 5:10:26 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/27/2020 5:10:26 PM
Surr: BFB	98.6	70-130		%Rec	1	4/27/2020 5:10:26 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level
- Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RLReporting Limit

Page 3 of 17

Lab Order 2004997

Date Reported: 4/29/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd.

Tony La Russa State Com 201H Pasture

Lab ID: 2004997-004

Project:

Matrix: SOIL

Client Sample ID: BS20-07 2'

Collection Date: 4/21/2020 12:15:00 PM

Received Date: 4/23/2020 9:40:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGAN	NICS				Analyst: BRM
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	4/28/2020 12:42:45 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	4/28/2020 12:42:45 PM
Surr: DNOP	84.8	55.1-146	%Rec	1	4/28/2020 12:42:45 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	63	60	mg/Kg	20	4/27/2020 12:27:16 AM
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst: JMR
Benzene	ND	0.024	mg/Kg	1	4/27/2020 5:38:56 PM
Toluene	ND	0.047	mg/Kg	1	4/27/2020 5:38:56 PM
Ethylbenzene	ND	0.047	mg/Kg	1	4/27/2020 5:38:56 PM
Xylenes, Total	ND	0.095	mg/Kg	1	4/27/2020 5:38:56 PM
Surr: 1,2-Dichloroethane-d4	79.2	70-130	%Rec	1	4/27/2020 5:38:56 PM
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	4/27/2020 5:38:56 PM
Surr: Dibromofluoromethane	85.7	70-130	%Rec	1	4/27/2020 5:38:56 PM
Surr: Toluene-d8	94.4	70-130	%Rec	1	4/27/2020 5:38:56 PM
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	4/27/2020 5:38:56 PM
Surr: BFB	101	70-130	%Rec	1	4/27/2020 5:38:56 PM
Quii. 5. 5	101	70 100	701180	•	T/21/2020 0.00.0

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level;
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 4 of 17

Lab Order 2004997

Date Reported: 4/29/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd.

Tony La Russa State Com 201H Pasture

Lab ID: 2004997-005

Project:

Client Sample ID: BS20-08 2'

Collection Date: 4/21/2020 12:25:00 PM

Received Date: 4/23/2020 9:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGAN	NICS					Analyst: BRM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	4/24/2020 6:44:00 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/24/2020 6:44:00 PM
Surr: DNOP	20.3	55.1-146	S	%Rec	1	4/24/2020 6:44:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	100	60		mg/Kg	20	4/27/2020 1:04:30 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: JMR
Benzene	ND	0.023		mg/Kg	1	4/27/2020 6:07:27 PM
Toluene	ND	0.046		mg/Kg	1	4/27/2020 6:07:27 PM
Ethylbenzene	ND	0.046		mg/Kg	1	4/27/2020 6:07:27 PM
Xylenes, Total	ND	0.092		mg/Kg	1	4/27/2020 6:07:27 PM
Surr: 1,2-Dichloroethane-d4	80.2	70-130		%Rec	1	4/27/2020 6:07:27 PM
Surr: 4-Bromofluorobenzene	97.6	70-130		%Rec	1	4/27/2020 6:07:27 PM
Surr: Dibromofluoromethane	85.7	70-130		%Rec	1	4/27/2020 6:07:27 PM
Surr: Toluene-d8	93.8	70-130		%Rec	1	4/27/2020 6:07:27 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	4/27/2020 6:07:27 PM
Surr: BFB	94.0	70-130		%Rec	1	4/27/2020 6:07:27 PM

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level,
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Н
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 5 of 17

Lab Order 2004997

Date Reported: 4/29/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd.

Tony La Russa State Com 201H Pasture

Lab ID: 20

Project:

2004997-006

H Pasture

Matrix: SOIL

Client Sample ID: WS20-04 0-0.5'

Collection Date: 4/21/2020 9:50:00 AM

Received Date: 4/23/2020 9:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst: BRM
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	4/27/2020 4:30:04 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	4/27/2020 4:30:04 PM
Surr: DNOP	111	55.1-146	%Rec	1	4/27/2020 4:30:04 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	4/27/2020 1:16:54 AM
EPA METHOD 8260B: VOLATILES SHORT LIST	г				Analyst: JMR
Benzene	ND	0.024	mg/Kg	1	4/27/2020 6:36:09 PM
Toluene	ND	0.048	mg/Kg	1	4/27/2020 6:36:09 PM
Ethylbenzene	ND	0.048	mg/Kg	1	4/27/2020 6:36:09 PM
Xylenes, Total	ND	0.096	mg/Kg	1	4/27/2020 6:36:09 PM
Surr: 1,2-Dichloroethane-d4	77.3	70-130	%Rec	1	4/27/2020 6:36:09 PM
Surr: 4-Bromofluorobenzene	99.9	70-130	%Rec	1	4/27/2020 6:36:09 PM
Surr: Dibromofluoromethane	88.2	70-130	%Rec	1	4/27/2020 6:36:09 PM
Surr: Toluene-d8	97.6	70-130	%Rec	1	4/27/2020 6:36:09 PM
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	4/27/2020 6:36:09 PM
Surr: BFB	103	70-130	%Rec	1	4/27/2020 6:36:09 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
 S Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 6 of 17

Lab Order 2004997

Date Reported: 4/29/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd.

Lab ID:

Project:

Tony La Russa State Com 201H Pasture

2004997-007 Matrix: SOIL Client Sample ID: WS20-05 0-0.5'

Collection Date: 4/21/2020 10:00:00 AM Received Date: 4/23/2020 9:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS			A)		Analyst: BRM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	4/24/2020 7:32:32 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/24/2020 7:32:32 PM
Surr: DNOP	25.7	55.1-146	S	%Rec	1	4/24/2020 7:32:32 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	260	60		mg/Kg	20	4/27/2020 1:29:19 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: JMR
Benzene	ND	0.024		mg/Kg	1	4/27/2020 7:04:37 PM
Toluene	ND	0.048		mg/Kg	1	4/27/2020 7:04:37 PM
Ethylbenzene	ND	0.048		mg/Kg	1	4/27/2020 7:04:37 PM
Xylenes, Total	ND	0.097		mg/Kg	1	4/27/2020 7:04:37 PM
Surr: 1,2-Dichloroethane-d4	79.2	70-130		%Rec	1	4/27/2020 7:04:37 PM
Surr: 4-Bromofluorobenzene	99.1	70-130		%Rec	1	4/27/2020 7:04:37 PM
Surr: Dibromofluoromethane	89.3	70-130		%Rec	1	4/27/2020 7:04:37 PM
Surr: Toluene-d8	93.6	70-130		%Rec	1	4/27/2020 7:04:37 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/27/2020 7:04:37 PM
Surr: BFB	98.4	70-130		%Rec	1	4/27/2020 7:04:37 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Not Detected at the Reporting Limit
- ND Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

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Lab Order 2004997

Date Reported: 4/29/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd.

Tony La Russa State Com 201H Pasture

Lab ID: 2004997-008

Project:

Matrix: SOIL

Client Sample ID: WS20-06 0-2'

Collection Date: 4/21/2020 10:10:00 AM

Received Date: 4/23/2020 9:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	RGANICS					Analyst: BRM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	4/24/2020 7:56:37 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/24/2020 7:56:37 PM
Surr: DNOP	29.2	55,1-146	s	%Rec	1	4/24/2020 7:56:37 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	220	60		mg/Kg	20	4/27/2020 1:41:44 AM
EPA METHOD 8260B: VOLATILES SHORT L	IST					Analyst: JMR
Benzene	ND	0.023		mg/Kg	1	4/27/2020 7:33:05 PM
Toluene	ND	0.046		mg/Kg	1	4/27/2020 7:33:05 PM
Ethylbenzene	ND	0.046		mg/Kg	1	4/27/2020 7:33:05 PM
Xylenes, Total	ND	0.092		mg/Kg	1	4/27/2020 7:33:05 PM
Surr: 1,2-Dichloroethane-d4	79.5	70-130		%Rec	1	4/27/2020 7:33:05 PM
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	4/27/2020 7:33:05 PM
Surr: Dibromofluoromethane	88.3	70-130		%Rec	1	4/27/2020 7:33:05 PM
Surr: Toluene-d8	96.4	70-130		%Rec	1	4/27/2020 7:33:05 PM
EPA METHOD 8015D MOD: GASOLINE RAN	GE					Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	4/27/2020 7:33:05 PM
Surr: BFB	100	70-130		%Rec	1	4/27/2020 7:33:05 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order 2004997

Date Reported: 4/29/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd.

Project: Tony La Russa State Com 201H Pasture

Lab ID: 2004997-009

Matrix: SOIL

Client Sample ID: WS20-07 0-2'

Collection Date: 4/21/2020 10:20:00 AM **Received Date:** 4/23/2020 9:40:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGAN	NICS				Analyst: BRM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	4/27/2020 4:54:04 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	4/27/2020 4:54:04 PM
Surr: DNOP	69.3	55.1-146	%Rec	1	4/27/2020 4:54:04 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	82	61	mg/Kg	20	4/27/2020 1:54:09 AM
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst: JMR
Benzene	ND	0.023	mg/Kg	1	4/27/2020 8:01:37 PM
Toluene	ND	0.046	mg/Kg	1	4/27/2020 8:01:37 PM
Ethylbenzene	ND	0.046	mg/Kg	1	4/27/2020 8:01:37 PM
Xylenes, Total	ND	0.093	mg/Kg	1	4/27/2020 8:01:37 PM
Surr: 1,2-Dichloroethane-d4	79.8	70-130	%Rec	1	4/27/2020 8:01:37 PM
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	4/27/2020 8:01:37 PM
Surr: Dibromofluoromethane	87.7	70-130	%Rec	1	4/27/2020 8:01:37 PM
Surr: Toluene-d8	96.3	70-130	%Rec	1	4/27/2020 8:01:37 PM
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	4/27/2020 8:01:37 PM
Surr: BFB	99.2	70-130	%Rec	1	4/27/2020 8:01:37 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Lab Order 2004997

Date Reported: 4/29/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd.

Tony La Russa State Com 201H Pasture

Lab ID: 2004997-010

Project:

201H Pasture

Matrix: SOIL

Client Sample ID: WS20-08 0-2'

Collection Date: 4/21/2020 10:30:00 AM Received Date: 4/23/2020 9:40:00 AM

Analyses Result **RL Qual Units** DF **Date Analyzed EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: BRM Diesel Range Organics (DRO) ND 9.3 mg/Kg 1 4/24/2020 8:44:52 PM Motor Oil Range Organics (MRO) ND 47 mg/Kg 1 4/24/2020 8:44:52 PM Surr: DNOP 16.0 55.1-146 S %Rec 1 4/24/2020 8:44:52 PM **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride 120 60 4/27/2020 2:06:34 AM 20 mg/Kg **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JMR Benzene 4/27/2020 8:30:03 PM ND 0.025 mg/Kg 1 Toluene ND 0.050 mg/Kg 4/27/2020 8:30:03 PM Ethylbenzene ND 0.050 mg/Kg 4/27/2020 8:30:03 PM 1 Xylenes, Total ND 0.099 mg/Kg 4/27/2020 8:30:03 PM 1 Surr: 1,2-Dichloroethane-d4 79.2 70-130 %Rec 4/27/2020 8:30:03 PM 1 Surr: 4-Bromofluorobenzene 97.0 70-130 %Rec 1 4/27/2020 8:30:03 PM Surr: Dibromofluoromethane 85.2 70-130 %Rec 1 4/27/2020 8:30:03 PM Surr: Toluene-d8 70-130 %Rec 4/27/2020 8:30:03 PM 95.5 1 **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: JMR Gasoline Range Organics (GRO) ND 5.0 mg/Kg 1 4/27/2020 8:30:03 PM Surr: BFB 98.2 70-130 %Rec 1 4/27/2020 8:30:03 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order 2004997

Date Reported: 4/29/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd.

Tony La Russa State Com 201H Pasture

Lab ID: 2004997-011

Project:

Matrix: SOIL

Client Sample ID: WS20-09 0-0.5'

Collection Date: 4/21/2020 10:40:00 AM

Received Date: 4/23/2020 9:40:00 AM

Analyses	Result	RL Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGAN	NICS				Analyst: JME
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	4/24/2020 9:29:16 AM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	4/24/2020 9:29:16 AM
Surr: DNOP	100	55.1-146	%Rec	1	4/24/2020 9:29:16 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	250	60	mg/Kg	20	4/27/2020 2:18:59 AM
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst: JMR
Benzene	ND	0.025	mg/Kg	1 *	4/27/2020 8:58:30 PM
Toluene	ND	0.049	mg/Kg	1	4/27/2020 8:58:30 PM
Ethylbenzene	ND	0.049	mg/Kg	1	4/27/2020 8:58:30 PM
Xylenes, Total	ND	0.098	mg/Kg	1	4/27/2020 8:58:30 PM
Surr: 1,2-Dichloroethane-d4	79.1	70-130	%Rec	1	4/27/2020 8:58:30 PM
Surr: 4-Bromofluorobenzene	97.0	70-130	%Rec	1	4/27/2020 8:58:30 PM
Surr: Dibromofluoromethane	88.4	70-130	%Rec	1	4/27/2020 8:58:30 PM
Surr: Toluene-d8	94.1	70-130	%Rec	1	4/27/2020 8:58:30 PM
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/27/2020 8:58:30 PM
Surr: BFB	97.2	70-130	%Rec	1	4/27/2020 8:58:30 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
 PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: 2004997

Qual

Qual

29-Apr-20

Client:

Vertex Resource Group Ltd.

Project:

Tony La Russa State Com 201H Pasture

Sample ID: MB-52089

SampType: mblk

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 52089

RunNo: 68426

Prep Date: 4/26/2020

Analysis Date: 4/26/2020

SeqNo: 2367641

SPK value SPK Ref Val %REC LowLimit

Units: mg/Kg HighLimit

Analyte Result **PQL** Chloride ND

Sample ID: LCS-52089

SampType: Ics

TestCode: EPA Method 300.0: Anions

Client ID: LCSS

Batch ID: 52089

RunNo: 68426

Analysis Date: 4/26/2020

1.5

Units: mg/Kg

110

Prep Date: 4/26/2020 Analyte

PQL Result

SPK value SPK Ref Val

SeqNo: 2367642 %REC LowLimit

HighLimit

RPDLimit %RPD

RPDLimit

%RPD

Chloride 14 1.5 15.00 93.8 90

Sample ID: MB-52092

Sample ID: LCS-52092

PBS

SampType: mblk Batch ID: 52092 TestCode: EPA Method 300.0: Anions

RunNo: 68439

SeqNo: 2368151

Units: mg/Kg

Analyte

Client ID:

Prep Date: 4/26/2020

Analysis Date: 4/26/2020

ND

Result

SPK value SPK Ref Val %REC LowLimit

HighLimit %RPD

RPDLimit

Qual

Chloride

SampType: Ics

Batch ID: 52092

PQL

1.5

TestCode: EPA Method 300.0: Anions RunNo: 68439

HighLimit

Prep Date: Analyte

Client ID:

LCSS 4/26/2020

Analysis Date: 4/27/2020

SeqNo: 2368152

Units: mg/Kg

RPDLimit Qual

Result

PQL

SPK value SPK Ref Val

%REC 94.0

LowLimit 90

110

%RPD

Chloride

14 1.5 15.00

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Holding times for preparation or analysis exceeded Н Not Detected at the Reporting Limit ND
- POL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits Sample pH Not In Range
- Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: 2004997

29-Apr-20

Client:

Vertex Resource Group Ltd.

Project: Tony La	Russa State Com								
Sample ID: MB-52053	SampType: MI	BLK	Tes	Code: E	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: PBS	Batch ID: 52	053	F	lunNo: 6	8394				
Prep Date: 4/23/2020	Analysis Date: 4	/24/2020	S	eqNo: 2	366387	Units: mg/K	(g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND 10								
Motor Oil Range Organics (MRO)	ND 50								
Surr: DNOP	13 	10.00		130	55.1	146			
Sample ID: MB-52057	SampType: MBLK TestCode: EPA Method 8				8015M/D: Die	esel Range	e Organics		
Client ID: PBS	Batch ID: 52	Batch ID: 52057 RunNo: 68394							
Prep Date: 4/23/2020	Analysis Date: 4	/24/2020	S	eqNo: 2	366388	Units: mg/K	(g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND 10								
Motor Oil Range Organics (MRO)	ND 50								
Surr: DNOP	11 	10,00		113	55.1	146			
Sample ID: LCS-52053	SampType: LC	Tes	Code: E	PA Method	8015M/D: Die	esel Rango	e Organics		
Client ID: LCSS	Batch ID: 52	F	lunNo: 6	8394					
Prep Date: 4/23/2020	Analysis Dates 4	0410000	_	eqNo: 2	000000				
1 Tep Date. 4/23/2020	Analysis Date: 4	24/2020	٤	eqivo. Z	366389	Units: mg/K	(g		
Analyte	Result PQL		SPK Ref Val	%REC	LowLimit	Units: mg/K	(g %RPD	RPDLimit	Qual
	•	SPK value				•	•	RPDLimit	Qual
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	•	RPDLimit	Qual
Analyte Diesel Range Organics (DRO)	Result PQL	SPK value 50.00 5.000	SPK Ref Val	%REC 128 129	LowLimit 70 55.1	HighLimit	%RPD		Qual
Analyte Diesel Range Organics (DRO) Surr: DNOP	Result PQL 64 10 6.4	SPK value 50.00 5.000	SPK Ref Val 0	%REC 128 129	LowLimit 70 55.1 PA Method	HighLimit 130 146	%RPD		Qual
Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID: LCS-52057	Result PQL 64 10 6.4 SampType: LC	SPK value 50.00 5.000 CS	SPK Ref Val 0	%REC 128 129 Code: E	LowLimit 70 55.1 PA Method 88394	HighLimit 130 146	%RPD		Qual
Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID: LCS-52057 Client ID: LCSS	Result PQL 64 10 6.4 SampType: LC Batch ID: 52	SPK value 50.00 5.000 5.000 CS 057 /24/2020	SPK Ref Val 0	%REC 128 129 tCode: E	LowLimit 70 55.1 PA Method 88394	HighLimit 130 146 8015M/D: Did	%RPD		Qual
Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID: LCS-52057 Client ID: LCSS Prep Date: 4/23/2020	Result PQL 64 10 6.4 SampType: LC Batch ID: 52 Analysis Date: 44	SPK value 50.00 5.000 CS 057 (24/2020 SPK value	SPK Ref Val 0 Tes	%REC 128 129 Code: E tunNo: 6	LowLimit 70 55.1 PA Method 88394 8366390	HighLimit 130 146 8015M/D: Did Units: mg/K	%RPD	e Organics	
Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID: LCS-52057 Client ID: LCSS Prep Date: 4/23/2020 Analyte	Result PQL 64 10 6.4 SampType: LC Batch ID: 52 Analysis Date: 44 Result PQL	SPK value 50.00 5.000 CS 057 (24/2020 SPK value	SPK Ref Val 0 Tes: F S SPK Ref Val	%REC 128 129 Code: E RunNo: 6 GeqNo: 2	LowLimit	HighLimit 130 146 8015M/D: Did Units: mg/K	%RPD	e Organics	
Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID: LCS-52057 Client ID: LCSS Prep Date: 4/23/2020 Analyte Diesel Range Organics (DRO)	Result PQL 64 10 6.4 10 SampType: LC Batch ID: 52 Analysis Date: 4// Result PQL 65 10	SPK value 50.00 5.000 2S 057 /24/2020 SPK value 50.00 5.000	SPK Ref Val 0 Tes: F S SPK Ref Val 0	%REC 128 129 Code: E cunNo: 6 eqNo: 2 %REC 129 129	LowLimit	HighLimit 130 146 8015M/D: Did Units: mg/M HighLimit 130	%RPD esel Range g WRPD	e Organics RPDLimit	
Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID: LCS-52057 Client ID: LCSS Prep Date: 4/23/2020 Analyte Diesel Range Organics (DRO) Surr: DNOP	Result PQL 64 10 6.4 SampType: LC Batch ID: 52 Analysis Date: 4 Result PQL 65 10 6.5	SPK value 50.00 5.000 5.000 SS 057 /24/2020 SPK value 50.00 5.000	SPK Ref Val 0 Tesi SPK Ref Val 0	%REC 128 129 Code: E cunNo: 6 eqNo: 2 %REC 129 129	LowLimit	HighLimit 130 146 8015M/D: Did Units: mg/k HighLimit 130 146	%RPD esel Range g WRPD	e Organics RPDLimit	
Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID: LCS-52057 Client ID: LCSS Prep Date: 4/23/2020 Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID: 2004997-011AMS	Result PQL 64 10 6.4 10 6.4 10 SampType: LC Batch ID: 52 52 Analysis Date: 4/I 4/I Result PQL 65 10 6.5 SampType: MS	SPK value 50.00 5.000 CS 0057 /24/2020 SPK value 50.00 5.000	SPK Ref Val 0 Tes: F S SPK Ref Val 0 Tes:	%REC 128 129 Code: E tunNo: 6 deqNo: 2 %REC 129 129	LowLimit	HighLimit 130 146 8015M/D: Did Units: mg/k HighLimit 130 146	%RPD esel Range %RPD esel Range	e Organics RPDLimit	
Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID: LCS-52057 Client ID: LCSS Prep Date: 4/23/2020 Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID: 2004997-011AMS Client ID: WS20-09 0-0.5'	Result PQL 64 10 6.4 10 SampType: LC Batch ID: 52 52 Analysis Date: 4,0 4,0 Result PQL 65 10 6.5 10 SampType: M3 Batch ID: 52	SPK value 50.00 5.000 5.000 SS 057 /24/2020 SPK value 50.00 5.000 SS 0057	SPK Ref Val 0 Tes: F S SPK Ref Val 0 Tes:	%REC 128 129 Code: E CunNo: 6 GeqNo: 2 %REC 129 129 Code: E CunNo: 6	LowLimit	HighLimit 130 146 8015M/D: Did Units: mg/M HighLimit 130 146 8015M/D: Did	%RPD esel Range %RPD esel Range	e Organics RPDLimit	
Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID: LCS-52057 Client ID: LCSS Prep Date: 4/23/2020 Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID: 2004997-011AMS Client ID: WS20-09 0-0.5' Prep Date: 4/23/2020	Result PQL 64 10 6.4 10 6.4 10 SampType: LC Batch ID: 52 Analysis Date: 4µ Result PQL 65 10 6.5 SampType: M3 Batch ID: 52 Analysis Date: 4µ	SPK value	SPK Ref Val 0 Tesi S SPK Ref Val 0 Tesi S SPK Ref Val	%REC 128 129 Code: E tunNo: 6 deqNo: 2 %REC 129 129 Code: E tunNo: 6	LowLimit 70 55.1 PA Method 8394 366390 LowLimit 70 55.1 PA Method 8394 366398	HighLimit 130 146 8015M/D: Did Units: mg/M HighLimit 130 146 8015M/D: Did Units: mg/M	%RPD esel Range %RPD esel Range	e Organics RPDLimit e Organics	Qual

Qualifiers:

- Value exceeds Maximum Contaminant Level,
- Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

9.0

10.00

WO#:

2004997

29-Apr-20

Client:

Vertex Resource Group Ltd.

Project:

Tony La Russa State Com 201H Pasture

	. 114334 31410 20111 2								
Sample ID: 2004997-011AMS	SD SampType: MS	D	Tes	tCode: EF	A Method	8015M/D: Die	sel Range	Organics	
Client ID: WS20-09 0-0.5'	Batch ID: 520	57	F	RunNo: 68	394				
Prep Date: 4/23/2020	Analysis Date: 4/2	4/2020	8	SeqNo: 23	166399	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41 9.6	48.03	0	86.3	47.4	136	5.22	43.4	
Surr: DNOP	3.2	4.803		67.4	55.1	146	0	0	
Sample ID: LCS-52131	SampType: LC\$	 3	Tes	tCode: EF	A Method	8015M/D: Die	sel Range	o Organics	
Client ID: LCSS	Batch ID: 521	31	F	RunNo: 68	3463				
Prep Date: 4/28/2020	Analysis Date: 4/2	8/2020	8	SeqNo: 23	69456	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47 10	50.00	0	94.2	70	130			
Surr: DNOP	4.2	5.000		84.2	55.1	146			
Sample ID: MB-52131	SampType: MB	LK	Tes	tCode: EF	A Method	8015M/D: Die	esel Range	o Organics	
Client ID: PBS	Batch ID: 521	31	F	RunNo: 68	3463				
Prep Date: 4/28/2020	Analysis Date: 4/2	8/2020	8	SeqNo: 23	169457	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND 10								
Votor Oil Range Organics (MRO)	ND 50								

Qualifiers:

Surr: DNOP

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

90.2

55.1

146

Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range

Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: 2004997

29-Apr-20

Client:

Vertex Resource Group Ltd.

Project:

Tony La Russa State Com 201H Pasture

Sample ID: mb-52049	Samp	SampType: MBLK			TestCode: EPA Method 8260B: Volatiles Short List						
Client ID: PBS	Batc	Batch ID: 52049			RunNo: 68429						
Prep Date: 4/23/2020	Analysis [Date: 4/	26/2020	S	SeqNo: 2	367765	Units: mg/K	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	ND	0.025									
Toluene	ND	0.050		20							
Ethylbenzene	ND	0.050									
Xylenes, Total	ND	0.10									
Surr: 1,2-Dichloroethane-d4	0.42		0.5000		84.5	70	130				
Surr: 4-Bromofluorobenzene	0.49		0.5000		98.2	70	130				
Surr: Dibromofluoromethane	0.47		0.5000		94.8	70	130				
Surr: Toluene-d8	0.49		0.5000		98.4	70	130				

Sample ID: Ics-52049	SampT	ype: LC	S	Tes	TestCode: EPA Method 8260B: Volatiles Short List						
Client ID: LCSS	Batcl	n ID: 52 0	049	F	RunNo: 68429						
Prep Date: 4/23/2020	Analysis D	ate: 4/	26/2020	8	SeqNo: 2	367766	Units: mg/K	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.85	0.025	1.000	0	85.3	70	130				
Toluene	0.98	0.050	1.000	0	97.9	70	130				
Ethylbenzene	1.0	0.050	1.000	0	104	70	130				
Xylenes, Total	3.1	0.10	3.000	0	103	70	130				
Surr: 1,2-Dichloroethane-d4	0.44		0.5000		88.3	70	130				
Surr: 4-Bromofluorobenzene	0.49		0.5000		97.8	70	130				
Surr: Dibromofluoromethane	0.47		0.5000		94.6	70	130				
Surr: Toluene-d8	0.49		0.5000		97.6	70	130				

Sample ID: 2004997-001ams	Samp1	ype: MS	i	Tes	PA Method	8260B: Volat	iles Short	List					
Client ID: BS20-04 0.5'	Batch ID: 52049 RunNo: 68461												
Prep Date: 4/23/2020	Analysis E	Date: 4/	27/2020	020 SeqNo: 2368886			Units: mg/K	s: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene	0.80	0.025	0.9872	0	81.1	70	130						
Toluene	0.97	0.049	0.9872	0	98.7	70	130						
Ethylbenzene	1.1	0.049	0.9872	0	107	70	130						
Xylenes, Total	3.1	0.099	2.962	0	105	70	130						
Surr: 1,2-Dichloroethane-d4	0.40		0.4936		80.2	70	130						
Surr: 4-Bromofluorobenzene	0.50		0.4936		101	70	130						
Surr: Dibromofluoromethane	0.44		0.4936		89.4	70	130						
Surr: Toluene-d8	0.48		0.4936		96.3	70	130						

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: 2004997

29-Apr-20

Client:

Vertex Resource Group Ltd.

Project:

Tony La Russa State Com 201H Pasture

Sample ID: 2004997-001ams	d Samp	Гуре: МS	SD	TestCode: EPA Method 8260B: Volatiles Short List							
Client ID: BS20-04 0.5'	Batc	Batch ID: 52049 RunNo: 68461									
Prep Date: 4/23/2020	Analysis [Date: 4/	27/2020	8	SeqNo: 2	368887	Units: mg/K	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.83	0.025	0.9980	0	83.0	70	130	3,42	20		
Toluene	1.0	0.050	0.9980	0	101	70	130	3.68	20		
Ethylbenzene	1.0	0.050	0.9980	0	105	70	130	0.833	0		
Xylenes, Total	3.2	0.10	2.994	0	106	70	130	1.96	0		
Surr: 1,2-Dichloroethane-d4	0.40		0.4990		81,1	70	130	0	0		
Surr: 4-Bromofluorobenzene	0.48		0.4990		97.1	70	130	0	0		
Surr: Dibromofluoromethane	0.44		0.4990		87.4	70	130	0	0		
Surr: Toluene-d8	0.47		0.4990		93.8	70	130	0	0		

Qualifiers:

* Value exceeds Maximum Contaminant Level...

O Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 16 of 17

Hall Environmental Analysis Laboratory, Inc.

WO#:

2004997

29-Apr-20

Client:

Vertex Resource Group Ltd.

Project:

Tony La Russa State Com 201H Pasture

Sample ID: mb-52049

SampType: MBLK

ND

TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: PBS

Batch ID: 52049

5.0

500.0

25.00

500.0

24.46

489.2

SPK value SPK Ref Val

RunNo: 68429

%RPD

Prep Date: 4/23/2020

Analysis Date: 4/26/2020

%REC

Units: mg/Kg

Analyte

Result **PQL**

SeqNo: 2367784 SPK value SPK Ref Val

LowLimit

LowLimit

70

70

70

70

RPDLimit Qual

Gasoline Range Organics (GRO) Surr: BFB

490

98.9

70 130

TestCode: EPA Method 8015D Mod: Gasoline Range

HighLimit

Sample ID: Ics-52049

SampType: LCS

RunNo: 68429

%REC

97.8

100

Client ID: LCSS

Batch ID: 52049

Result

24

500

Prep Date: 4/23/2020

Analysis Date: 4/26/2020

SeqNo: 2367785

Units: mg/Kg HighLimit

%RPD **RPDLimit** Qual

Analyte Gasoline Range Organics (GRO) Surr: BFB

Sample ID: 2004997-002ams

SampType: MS Batch ID: 52049

PQL

5.0

TestCode: EPA Method 8015D Mod: Gasoline Range

130

130

Client ID: Prep Date: 4/23/2020

BS20-05 0.5'

Analysis Date: 4/27/2020

4.9

RunNo: 68461 SeqNo: 2368924

Units: mg/Kg

%RPD

Gasoline Range Organics (GRO)

Result SPK value SPK Ref Val 23

%REC LowLimit

92.5

99.1

HighLimit 130 **RPDLimit** Qual

Surr: BFB

490

SampType: MSD

TestCode: EPA Method 8015D Mod: Gasoline Range

130

Client ID: BS20-05 0.5'

Sample ID: 2004997-002amsd

Batch ID: 52049

RunNo: 68461

Prep Date:

4/23/2020

Analysis Date: 4/27/2020

SeqNo: 2368925

Units: mg/Kg

Analyte Gasoline Range Organics (GRO)

Result **PQL**

%REC SPK value SPK Ref Val

LowLimit HighLimit 70

%RPD 1.85 130

RPDLimit 20

Qual

Surr: BFB

22 4.9 490

24.32 486.4 91.4 101

70

130 0

0

Qualifiers:

Value exceeds Maximum Contaminant Level,

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range Reporting Limit

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website, www.hallenvironmental.com

Sample Log-In Check List

Received By: Juan-Rojas 4/23/2020 9:40:00 AM Completed By: Isalah Ortiz 4/23/2020 8:49:48 AM Reviewed By: 3 2 4 2 3 7 C Chain of Custody 1. Is Chain of Custody sufficiently complete? Yes No Not Present 2. How was the sample delivered? Log In 3. Was an attempt made to cool the samples? Yes No No Not Present 4. Were all samples received at a temperature of >0° C to 6.0°C Yes No No Not Not Not Not Not Not Not Not N
Chain of Custody 1. Is Chain of Custody sufficiently complete? 2. How was the sample delivered? Log In 3. Was an attempt made to cool the samples? 4. Were all samples received at a temperature of >0° C to 6.0°C 5. Sample(s) in proper container(s)? 6. Sufficient sample volume for indicated test(s)? 7. Are samples (except VOA and ONG) properly preserved? 8. Was preservative added to bottles? 9. Received at least 1 vial with headspace <1/4" for AQ VOA? 10. Were any sample containers received broken? Yes No
Chain of Custody 1. Is Chain of Custody sufficiently complete? 2. How was the sample delivered? Log In 3. Was an attempt made to cool the samples? 4. Were all samples received at a temperature of >0° C to 6.0°C 5. Sample(s) in proper container(s)? 6. Sufficient sample volume for indicated test(s)? 7. Are samples (except VOA and ONG) properly preserved? 8. Was preservative added to bottles? 9. Received at least 1 vial with headspace <1/4" for AQ VOA? 10. Were any sample containers received broken? Yes No
Chain of Custody 1. Is Chain of Custody sufficiently complete? 2. How was the sample delivered? Courier Log In 3. Was an attempt made to cool the samples? 4. Were all samples received at a temperature of >0° C to 6.0°C Yes ✓ No No NA 5. Sample(s) in proper container(s)? 6. Sufficient sample volume for indicated test(s)? 7. Are samples (except VOA and ONG) properly preserved? 8. Was preservative added to bottles? 9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes No No No NA ✓ No Present □ No No NA ✓ # of preserved bottles checked bottles checked
1. Is Chain of Custody sufficiently complete? 2. How was the sample delivered? Courier Log In 3. Was an attempt made to cool the samples? 4. Were all samples received at a temperature of >0° C to 6.0°C 7. Sample(s) in proper container(s)? 6. Sufficient sample volume for indicated test(s)? 7. Are samples (except VOA and ONG) properly preserved? 8. Was preservative added to bottles? 9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes No
2. How was the sample delivered? Log In 3. Was an attempt made to cool the samples? Yes ✓ No No NA □ 4. Were all samples received at a temperature of >0° C to 6.0°C Yes ✓ No No NA □ 5. Sample(s) in proper container(s)? 6. Sufficient sample volume for indicated test(s)? 7. Are samples (except VOA and ONG) properly preserved? 8. Was preservative added to bottles? 9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes □ No □ NA □ *# of preserved bottles checked
Log In 3. Was an attempt made to cool the samples? Yes V No No NA 4. Were all samples received at a temperature of >0° C to 6,0°C Yes V No No NA 5. Sample(s) in proper container(s)? Yes No
3. Was an attempt made to cool the samples? Yes V No No NA 4. Were all samples received at a temperature of >0° C to 6.0°C Yes V No No NA 5. Sample(s) in proper container(s)? Yes No No No NA 6. Sufficient sample volume for indicated test(s)? 7. Are samples (except VOA and ONG) properly preserved? 8. Was preservative added to bottles? 9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes No No NA 10. Were any sample containers received broken?
5. Sample(s) in proper container(s)? Yes No 6. Sufficient sample volume for indicated test(s)? 7. Are samples (except VOA and ONG) properly preserved? 8. Was preservative added to bottles? Yes No No NA 9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes No No NA # of preserved bottles checked
6. Sufficient sample volume for indicated test(s)? 7. Are samples (except VOA and ONG) properly preserved? 8. Was preservative added to bottles? 9. Received at least 1 vial with headspace <1/4" for AQ VOA? 10. Were any sample containers received broken? Yes No No NA 1 No No NA 1 # of preserved bottles checked
7. Are samples (except VOA and ONG) properly preserved? 8. Was preservative added to bottles? 9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes No No NA Page 10. Were any sample containers received broken? Yes No Page 10. Were any sample containers received broken?
8. Was preservative added to bottles? Yes No No NA NA 9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes No No NA NO NA NO PROPERTY OF AQ VOA? Yes No PROPERTY OF AQ VOA? Yes No PROPERTY OF AQ VOA?
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes No No NA V 10. Were any sample containers received broken? Yes No W # of preserved bottles checked
10. Were any sample containers received broken? Yes □ No # of preserved bottles checked
of preserved bottles checked
bottles checked
(Note discrepancies on chain of custody) (<2 or >12 unless no
12. Are matrices correctly identified on Chain of Custody? Yes ▼ No □ Adjusted?
13 Is it clear what analyses were requested?
14. Were all holding times-able to be met? Yes ✓ No ☐ Checked by: 9M 4 27
Special Handling (if applicable)
15. Was client notified of all discrepancies with this order?
Person Notified: Date:
By Whom: Via: eMail Phone Fax In Person
Regarding:
Client Instructions:
16. Additional remarks:
17. Cooler Information
Cooler No Temp °C Condition Seal Intact Seal No Seal Date Signed By
1 0.2 Good Not Present
2 3.3 Good Not Present

Page Lof I

HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com kins NE - #Ibuquerque, NM 87109 345-3975 Fax 505-345-4107 Analysis Request	(1)	nəsdA\tn		οΛ-	imə2) (728													c Glondon	Via: Date Time (BUNE 4/23/20 9:40
HALL ENVIRONME ANALYSIS LABORA www.hallenvironmental.com www.hallenvironmental.com 1901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 Analysis Request	٥	08IMS	728 10 i	10 stale	8 (Methors) 8 8 by 8 8 Me 1 ,18 ,= 4 (VOV) 0	1АЧ 1ЭЯ 1ੴ	5	>	>	>	>	>	>	>	>	7	2		CC: Natal	کے
		8021) 80 / MRC 라OB's	a ≀ o.	สอ)	TM (X	_	\ \>	7	>	7	2	>	7	7	7	>	7		Remarks:	
Turr Around Time: Socy M Standard Brush Project Name: Prossa State Com #201 H Project #:		Clordon	oN \square		2.5-0-3.5 HEAL NO	7004997	\$	7-00-	~ 5∞-	10D-	Ş	<i>9</i> 00-	700-	200g	989	910-	110-		Date Time 4(22/22 1300	Date Time 4/33/70 9:4/0
und Time: Start Jand Rush Rame: Pastune) Pastune)	lager:	١ .	My P		Drosocrativo		106	_									}		/ Kai	Via:
Turr Around Time: M Standard Project Name: Project Name: Project #:	Project Manager:	Nate	Sampler: C	# of Coolers:	Cooler Temp(including o. 1)	Type and #	405										≽		Received by:	Received by:
Chain-of-Custody Record I Vortex Stali Gordon Ig Addression File ##		☐ Level 4 (Full Validation)	☐ Az Compliance ☐ Other			Sample Name	B520-04 0.51	BS20-05 0.5'	3520-de 21		BS20-08 2	W530-04 0-0.51	W30-05 0-0.51	W530-06 0-2,		~	WS30-09 0-0.5	(shed by:	Time: Relinquished by:
Client: VONTRY Mailing Address: ON	email or Fax#:	QA/QC Package: □ Standard		□ EDD (Type)	r	Time Matrix	11:45 50:11	10.55	121.05	13:15	13:25	9:50	10:00	0:19	10:00	10:30	(O)-(O)		Time: Relinquished	Time: Relinquished by:
Client: Client: Mailing A	email	QA/Q	Accre		11:	Date	4/2										>		Date	Date:



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

OrderNo.: 2004999

April 29, 2020

Natalie Gordon Vertex Resource Group Ltd. 213 S. Mesa St Carlsbad, NM 88220 TEL: (505) 506-0040

FAX

RE: Tony La Russa State Com 201H Pad

Dear Natalie Gordon:

Hall Environmental Analysis Laboratory received 7 sample(s) on 4/23/2020 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

andel

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 2004999

Date Reported: 4/29/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd.

Tony La Russa State Com 201H Pad

Lab ID: 2004999-001

Project:

Client Sample ID: BS20-01 0.5'

Collection Date: 4/21/2020 11:15:00 AM

Received Date: 4/23/2020 9:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS		_		Analyst: JME
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	4/24/2020 10:41:10 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	4/24/2020 10:41:10 AM
Surr: DNOP	66.5	55.1-146	%Rec	1	4/24/2020 10:41:10 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	200	60	mg/Kg	20	4/27/2020 2:31:23 AM
EPA METHOD 8260B: VOLATILES SHORT	Γ LIST				Analyst: JMR
Benzene	ND	0.024	mg/Kg	1	4/27/2020 9:27:24 PM
Toluene	ND	0.049	mg/Kg	1	4/27/2020 9:27:24 PM
Ethylbenzene	ND	0.049	mg/Kg	1	4/27/2020 9:27:24 PM
Xylenes, Total	ND	0.097	mg/Kg	1	4/27/2020 9:27:24 PM
Surr: 1,2-Dichloroethane-d4	79.1	70-130	%Rec	1	4/27/2020 9:27:24 PM
Surr: 4-Bromofluorobenzene	96.5	70-130	%Rec	1	4/27/2020 9:27:24 PM
Surr: Dibromofluoromethane	88.0	70-130	%Rec	1	4/27/2020 9:27:24 PM
Surr: Toluene-d8	99.0	70-130	%Rec	1	4/27/2020 9:27:24 PM
EPA METHOD 8015D MOD: GASOLINE RA	ANGE				Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/27/2020 9:27:24 PM
Surr: BFB	98.3	70-130	%Rec	1	4/27/2020 9:27:24 PM

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 11

Lab Order 2004999

Date Reported: 4/29/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd.

Project: Tony La Russa State Com 201H Pad

Lab ID: 2004999-002

Matrix: SOIL

Client Sample ID: BS20-02 0.5'

Collection Date: 4/21/2020 11:25:00 AM

Received Date: 4/23/2020 9:40:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: JME
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	4/24/2020 11:05:09 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	4/24/2020 11:05:09 AM
Surr: DNOP	102	55.1-146	%Rec	1	4/24/2020 11:05:09 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	790	60	mg/Kg	20	4/27/2020 3:33:27 AM
EPA METHOD 8260B: VOLATILES SHORT LIS	т				Analyst: JMR
Benzene	ND	0.025	mg/Kg	1	4/27/2020 9:56:01 PM
Toluene	ND	0.049	mg/Kg	1	4/27/2020 9:56:01 PM
Ethylbenzene	ND	0.049	mg/Kg	1	4/27/2020 9:56:01 PM
Xylenes, Total	ND	0.098	mg/Kg	1	4/27/2020 9:56:01 PM
Surr: 1,2-Dichloroethane-d4	80.0	70-130	%Rec	1	4/27/2020 9:56:01 PM
Surr: 4-Bromofluorobenzene	95.7	70-130	%Rec	1	4/27/2020 9:56:01 PM
Surr: Dibromofluoromethane	89.3	70-130	%Rec	1	4/27/2020 9:56:01 PM
Surr: Toluene-d8	98.1	70-130	%Rec	1	4/27/2020 9:56:01 PM
EPA METHOD 8015D MOD: GASOLINE RANG	E				Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/27/2020 9:56:01 PM
Surr: BFB	99.3	70-130	%Rec	1	4/27/2020 9:56:01 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 11

Lab Order 2004999

Date Reported: 4/29/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd.

Tony La Russa State Com 201H Pad

Lab ID: 2004999-003

Project:

Matrix: SOIL

Client Sample ID: BS20-03 0.5'

Collection Date: 4/21/2020 11:35:00 AM

Received Date: 4/23/2020 9:40:00 AM

Analyses	Result	RL Q	Qual Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst: JME
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	4/24/2020 2:17:23 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	4/24/2020 2:17:23 PM
Surr: DNOP	98.7	55.1-146	%Rec	1	4/24/2020 2:17:23 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	230	60	mg/Kg	20	4/27/2020 3:45:51 AM
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst: JMR
Benzene	ND	0.025	mg/Kg	1	4/27/2020 10:24:46 PM
Toluene	ND	0.049	mg/Kg	1	4/27/2020 10:24:46 PM
Ethylbenzene	ND	0.049	mg/Kg	1	4/27/2020 10:24:46 PM
Xylenes, Total	ND	0.098	mg/Kg	1	4/27/2020 10:24:46 PM
Surr: 1,2-Dichloroethane-d4	79.5	70-130	%Rec	1	4/27/2020 10:24:46 PM
Surr: 4-Bromofluorobenzene	98.4	70-130	%Rec	1	4/27/2020 10:24:46 PM
Surr: Dibromofluoromethane	87.5	70-130	%Rec	1	4/27/2020 10:24:46 PM
Surr: Toluene-d8	98.4	70-130	%Rec	1	4/27/2020 10:24:46 PM
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/27/2020 10:24:46 PM
Surr: BFB	99.2	70-130	%Rec	1	4/27/2020 10:24:46 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 3 of 11

Analytical Report Lab Order 2004999

Date Reported: 4/29/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd.

Lab ID: 2004999-004

Project:

Tony La Russa State Com 201H Pad

Client Sample ID: WS20-01 0-0.5'

Collection Date: 4/21/2020 11:00:00 AM Received Date: 4/23/2020 9:40:00 AM

Analyses	Result	RL (Qual Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: JME
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	4/24/2020 2:41:35 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	4/24/2020 2:41:35 PM
Surr: DNOP	108	55.1-146	%Rec	1	4/24/2020 2:41:35 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	380	60	mg/Kg	20	4/27/2020 3:58:16 AM
EPA METHOD 8260B: VOLATILES SHORT L	IST				Analyst: JMR
Benzene	ND	0.025	mg/Kg	1	4/28/2020 2:14:57 AM
Toluene	ND	0.049	mg/Kg	1	4/28/2020 2:14:57 AM
Ethylbenzene	ND	0.049	mg/Kg	1	4/28/2020 2:14:57 AM
Xylenes, Total	ND	0.099	mg/Kg	1	4/28/2020 2:14:57 AM
Surr: 1,2-Dichloroethane-d4	78.2	70-130	%Rec	1	4/28/2020 2:14:57 AM
Surr: 4-Bromofluorobenzene	97.9	70-130	%Rec	1	4/28/2020 2:14:57 AM
Surr: Dibromofluoromethane	87.7	70-130	%Rec	1	4/28/2020 2:14:57 AM
Surr: Toluene-d8	99.1	70-130	%Rec	1	4/28/2020 2:14:57 AM
EPA METHOD 8015D MOD: GASOLINE RAN	GE				Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/28/2020 2:14:57 AM
Surr: BFB	102	70-130	%Rec	1	4/28/2020 2:14:57 AM

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

Page 4 of 11

Lab Order 2004999

Date Reported: 4/29/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd.

Tony La Russa State Com 201H Pad

Lab ID: 2004999-005

Project:

ony La Russa State Com 201H Pad

Matrix: SOIL

Client Sample ID: WS20-02 0-0.5'

Collection Date: 4/21/2020 9:30:00 AM

Received Date: 4/23/2020 9:40:00 AM

Analyses	Result	RL: Q	Qual Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst: JME
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	4/24/2020 3:05:38 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	4/24/2020 3:05:38 PM
Surr: DNOP	114	55.1-146	%Rec	1	4/24/2020 3:05:38 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	330	60	mg/Kg	20	4/27/2020 4:10:40 AM
EPA METHOD 8260B: VOLATILES SHORT LIST	Г				Analyst: JMR
Benzene	ND	0.024	mg/Kg	1	4/28/2020 2:43:53 AM
Toluene	ND	0.048	mg/Kg	1	4/28/2020 2:43:53 AM
Ethylbenzene	ND	0.048	mg/Kg	1	4/28/2020 2:43:53 AM
Xylenes, Total	ND	0.095	mg/Kg	1	4/28/2020 2:43:53 AM
Surr: 1,2-Dichloroethane-d4	77.7	70-130	%Rec	1	4/28/2020 2:43:53 AM
Surr: 4-Bromofluorobenzene	97.0	70-130	%Rec	1	4/28/2020 2:43:53 AM
Surr: Dibromofluoromethane	88.4	70-130	%Rec	1	4/28/2020 2:43:53 AM
Surr: Toluene-d8	99.4	70-130	%Rec	1	4/28/2020 2:43:53 AM
EPA METHOD 8015D MOD: GASOLINE RANGE	Ī				Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	4/28/2020 2:43:53 AM
Surr: BFB	98.4	70-130	%Rec	1	4/28/2020 2:43:53 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 5 of 11

Lab Order 2004999

Date Reported: 4/29/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd.

Tony La Russa State Com 201H Pad

Lab ID: 2004999-006

Project:

Client Sample ID: WS20-03 0-0.5'

Collection Date: 4/21/2020 9:40:00 AM

Received Date: 4/23/2020 9:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: JME
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	4/24/2020 3:29:45 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	4/24/2020 3:29:45 PM
Surr: DNOP	69.2	55.1-146	%Rec	1	4/24/2020 3:29:45 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	250	60	mg/Kg	20	4/27/2020 4:23:04 AM
EPA METHOD 8260B: VOLATILES SHORT L	IST				Analyst: JMR
Benzene	ND	0.024	mg/Kg	1	4/28/2020 3:12:47 AM
Toluene	ND	0.049	mg/Kg	1	4/28/2020 3:12:47 AM
Ethylbenzene	ND	0.049	mg/Kg	1	4/28/2020 3:12:47 AM
Xylenes, Total	ND	0.097	mg/Kg	1	4/28/2020 3:12:47 AM
Surr: 1,2-Dichloroethane-d4	78.3	70-130	%Rec	1	4/28/2020 3:12:47 AM
Surr: 4-Bromofluorobenzene	95.7	70-130	%Rec	1	4/28/2020 3:12:47 AM
Surr: Dibromofluoromethane	88.2	70-130	%Rec	1	4/28/2020 3:12:47 AM
Surr: Toluene-d8	98.3	70-130	%Rec	1	4/28/2020 3:12:47 AM
EPA METHOD 8015D MOD: GASOLINE RAN	GE				Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/28/2020 3:12:47 AM
Surr: BFB	97.8	70-130	%Rec	1	4/28/2020 3:12:47 AM

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
 PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order 2004999

Date Reported: 4/29/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd.

Project: Tony La Russa State Com 201H Pad

Lab ID: 2

2004999-007

Matrix: SOIL

Client Sample ID: WS20-10 0-0.5'
Collection Date: 4/21/2020 10:50:00 AM

Received Date: 4/23/2020 9:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst: JM E
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	4/24/2020 3:53:55 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	4/24/2020 3:53:55 PM
Surr: DNOP	99.6	55.1-146	%Rec	1	4/24/2020 3:53:55 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	1800	60	mg/Kg	20	4/27/2020 4:35:29 AM
EPA METHOD 8260B: VOLATILES SHORT LIST	Ī				Analyst: JMR
Benzene	ND	0.025	mg/Kg	1	4/28/2020 3:41:38 AM
Toluene	ND	0.050	mg/Kg	1	4/28/2020 3:41:38 AM
Ethylbenzene	ND	0.050	mg/Kg	1	4/28/2020 3:41:38 AM
Xylenes, Total	ND	0.099	mg/Kg	1	4/28/2020 3:41:38 AM
Surr: 1,2-Dichloroethane-d4	77.5	70-130	%Rec	1	4/28/2020 3:41:38 AM
Surr: 4-Bromofluorobenzene	99.7	70-130	%Rec	1	4/28/2020 3:41:38 AM
Surr: Dibromofluoromethane	87.3	70-130	%Rec	1	4/28/2020 3:41:38 AM
Surr: Toluene-d8	97.3	70-130	%Rec	1	4/28/2020 3:41:38 AM
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst: JMR
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	4/28/2020 3:41:38 AM
Surr: BFB	99.7	70-130	%Rec	1	4/28/2020 3:41:38 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: 2004999

29-Apr-20

Client:

Vertex Resource Group Ltd.

Project:

Tony La Russa State Com 201H Pad

Sample ID: MB-52092

SampType: mblk

TestCode: EPA Method 300.0: Anions

Client ID: PBS

Batch ID: 52092

RunNo: 68439

ND

Prep Date: 4/26/2020

Analysis Date: 4/26/2020

1.5

SeqNo: 2368151

Units: mg/Kg

%RPD

Analyte

Result PQL SPK value SPK Ref Val %REC LowLimit

HighLimit

RPDLimit

Qual

Chloride

SampType: Ics

Batch ID: 52092

PQL

1.5

TestCode: EPA Method 300.0: Anions

RunNo: 68439

Client ID: LCSS Prep Date: 4/26/2020

Sample ID: LCS-52092

SeqNo: 2368152

Units: mg/Kg

Analyte

Analysis Date: 4/27/2020

SPK value SPK Ref Val %REC

HighLimit

%RPD **RPDLimit**

Qual

Chloride

94.0

110

14

15.00

LowLimit 90

0

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Е Value above quantitation range Analyte detected below quantitation limits
- Sample pH Not In Range Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#:

2004999 29-Apr-20

Client:

Vertex Resource Group Ltd.

Project:

Tony La Russa State Com 201H Pad

Sample ID: MB-52057	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: PBS	Batch	1D: 52	057	F	RunNo: 6	8394				
Prep Date: 4/23/2020	Analysis D	ate: 4/	24/2020	8	SeqNo: 2	366388	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		113	55.1	146			
Sample ID: LCS-52057	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	

Sample ID: LCS-52057	Samp⊺	ype: LC	S	Test	Code: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: LCSS	Batch	ID: 52 0	057	R	lunNo: 6	8394				
Prep Date: 4/23/2020	Analysis D	ate: 4/	24/2020	S	eqNo: 2	366390	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	65	10	50.00	0	129	70	130			
Surr: DNOP	6.5		5.000		129	55.1	146			

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2004999**

29-Apr-20

Client:

Vertex Resource Group Ltd.

Project: Tony La Russa State Com 201H Pad

Sample ID: mb-52049	SampT	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8260B: Volat	iles Short	List	
Client ID: PBS	Batcl	h ID: 52 0	049	F	RunNo: 6	8429				
Prep Date: 4/23/2020	Analysis D	Date: 4/	26/2020	5	SeqNo: 2	367765	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.42		0.5000		84.5	70	130			
Surr: 4-Bromofluorobenzene	0.49		0.5000		98.2	70	130			
Surr: Dibromofluoromethane	0.47		0.5000		94.8	70	130			
Surr: Toluene-d8	0.49		0.5000		98.4	70	130			

Sample ID: Ics-52049	Samp	Гуре: LC	s	Tes	tCode: El	PA Method	8260B: Vola	tiles Short	List	
Client ID: LCSS	Batc	h ID: 52 0	049	F	RunNo: 6	8429				
Prep Date: 4/23/2020	Analysis [Date: 4/	26/2020	\$	SeqNo: 2	367766	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.025	1,000	0	85.3	70	130		_	
Toluene	0.98	0.050	1.000	0	97.9	70	130			
Ethylbenzene	1.0	0.050	1.000	0	104	70	130			
Xylenes, Total	3.1	0.10	3.000	0	103	70	130			
Surr: 1,2-Dichloroethane-d4	0.44		0.5000		88.3	70	130			
Surr: 4-Bromofluorobenzene	0.49		0.5000		97.8	70	130			
Surr: Dibromofluoromethane	0.47		0.5000		94.6	70	130			
Surr: Toluene-d8	0.49		0.5000		97.6	70	130			

Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 10 of 11

Hall Environmental Analysis Laboratory, Inc.

WO#: 2004999

29-Apr-20

Client:

Vertex Resource Group Ltd.

Project:

Tony La Russa State Com 201H Pad

Sample ID: mb-52049 SampType: MBLK TestCode: EPA Method 8015D Mod: Gasoline Range Client ID: PBS Batch ID: 52049 RunNo: 68429 Prep Date: 4/23/2020 Analysis Date: 4/26/2020 SeqNo: 2367784 Units: mg/Kg Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) ND 5.0 490 500.0 Surr: BFB 98.9 70 130

Sample ID: Ics-52049 SampType: LCS TestCode: EPA Method 8015D Mod: Gasoline Range Client ID: LCSS Batch ID: 52049 RunNo: 68429 Prep Date: 4/23/2020 Analysis Date: 4/26/2020 SeqNo: 2367785 Units: mg/Kg SPK value SPK Ref Val %REC LowLimit Analyte Result **PQL** HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 24 5.0 25.00 0 97.8 70 130 Surr: BFB 500 500.0 100 70 130

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name:	VERTEX CARLSBAD	Work Order N	umber: 2004	1999		RcptN	o: 1
Received By:	Juan Rojas	4/23/2020 9:40:0	DO AM		Juandy		
Completed By:	Isaiah Ortiz	4/23/2020 10:04			Junich	12	
Reviewed By:	JR 4/23/20						
Chain of Custo					_		
1. Is Chain of Cu	stody sufficiently complete	?	Yes	V	No 🗌	Not Present	
2. How was the s	ample delivered?		Cour	<u>ier</u>			
Log In 3. Was an attemp	ot made to cool the sample:	3?	Yes	V	No 🗆	na 🗆	
4. Were all sample	es received at a temperatu	re of >0° C to 6.0°C	Yes	V	No 🗌	NA 🗆	
5. Sample(s) in pr	roper container(s)?		Yes	V	No 🗌		
6. Sufficient samp	le volume for indicated test	i(s)?	Yes	V	No 🗆		
	xcept VOA and ONG) prop			V	No 🗌		
	ve added to bottles?		Yes		No 🗹	NA 🗆	
Q Pagaiyad at loa	at 1 vial with bandons - at	(All 5 AO) (OAO			N- 🗀		/
	st 1 vial with headspace <1		Yes		No ∐	NA 🗹	
10. Were any samp	ple containers received bro	ken?	Yes	_	No 🗹	# of preserved	
	k match bottle labels? icies ол chain of custody)		Yes	V	No 🗆	bottles checked for pH: (<2	p>12 unless noted)
	rrectly identified on Chain	of Custody?	Yes	V	No 🗌	Adjusted?	
	analyses were requested?		Yes	V	No 🗌		a . II.ala.
	times able to be met? stomer for authorization.)		Yes	✓	No 🗌	Checked by:	Em 4/23/20
Special Handlir	ng (if applicable)						
15. Was client notif	fied of all discrepancies wit	h this order?	Yes		No 🗌	NA 🗹	
Person N	otified:	Da	ite:				
By Whom	1:	Via		il 🗇 l	Phone 🗍 Fax	☐ In Person	
Regarding	g:						
Client Ins	tructions:				-		
16. Additional rema	arks:						
17. Cooler Inform	ation						
Cooler No		Seal Intact Seal No	Seal Da	ite	Signed By		
		ot Present					
2	3.3 Good N	lot Present					

Page 1 of 1

	5						D AM																		age 114
HALL ENVIRONMENTAL	ANALYSTS LABORATORY	www.hallenvironmental.com	Albuquerque, NM 87109	Fax 505-345-4107	sis Request	(14	i∋sdA∖t	uəs		οΛ-	ime	0V) 0328 82) 0728 00 lstoT	_											dir Gordon	Motador
<u>u</u>		⁄.hallen∖	- 1		Anal	рO	S ,₄O9	O ^{S'}				8 АЯЗЯ (С) F, B	>	7	7	7	>	>	7					CC: Natalio	
N I	Z	W	4901 Hawkins NE	505-345-3975			SMIS					(d εHA9												- '	
_			Haw	505-3		L	8 00					8081 Pe EDB (Ma									_			کا	
			4901	He.		0				_		108:H9T		_	1				\forall		-	\mathbb{H}	\dashv	rks:	
N.							. Z08) s						5	5	7	2	7	7	2	+	1	H		Remarks:	
Day	,	StateCon					Ç		ON D		(0°) 2.0:0-	3.3-0=3.3 HEAL No. 2004999	100-	-001	-003	100-	>005	-000	100J					Date Time	Date Time 4/73/7c 9.いし
10	□ Rus	Physso	H (Pal		-00239	ager:	Natolic Gordon	446		2	O(including CF): 62	Preservative Type	ice						>					Via:	Via:
Turn-Around Time:	☑ Standard	Project Name:	4001	1	JODE -	Project Manager:	Nætal	Sampler: TX		# of Coolers:	Cooler Temp(including cF):	Container Type and #	704						>					Received by:	Received by:
cord							(validation)					(C)	1 0.5	0.5		50-0	0-0.5	5-0-5	0-0.5					/	
Chain-of-Custody Record		UC					☐ Level 4 (Full Validation)	mpliance				Sample Name	B520-01	BS20-02	8520-03	W520-01	W520-02	W530-03	W520-10				(A Sept.	d by:
-of-Cu	tex	Gordon	::					☐ Az Compliance	□ Other_			Matrix	- PS	_				_	>					Relinquisped by:	Relinquished by:
Chain	/estex	Nodalic	Mailing Address:	File	:# :	email or Fax#:	QA/QC Package:	Accreditation:	LAC	□ EDD (Type)		Time	11:15	11:35	11:35	11:00	9:30	9:40	10:50					Time:	Time:
	Client:	No.1	Mailin	8	Phone #:	email	QAVQ(Accre	□ NELAC			Date	1/2/H						\Rightarrow					Uste:	Date.



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: clients,hallenvironmental.com

OrderNo.: 2012234

December 10, 2020

Natalie Gordon Vertex Resource Group Ltd. 3101 Boyd Drive Carlsbad, NM 88220 TEL: (505) 506-0040

FAX:

RE: Tony La Russa St Com 201H

Dear Natalie Gordon:

Hall Environmental Analysis Laboratory received 2 sample(s) on 12/4/2020 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2012234

Date Reported: 12/10/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd.

Tony La Russa St Com 201H Project:

2012234-001 Lab ID:

Matrix: SOIL

Client Sample ID: BS20-02 0.5'

Collection Date: 12/2/2020 8:10:00 AM

Received Date: 12/4/2020 8:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE C	RGANICS				Analyst: CLP
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	12/5/2020 12:06:16 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	12/5/2020 12:06:16 PM
Surr: DNOP	113	30.4-154	%Rec	1	12/5/2020 12:06:16 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	12/5/2020 1:22:15 PM
Surr: BFB	102	75.3-105	%Rec	1	12/5/2020 1:22:15 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	12/5/2020 1:22:15 PM
Toluene	ND	0.050	mg/Kg	1	12/5/2020 1:22:15 PM
Ethylbenzene	ND	0.050	mg/Kg	1	12/5/2020 1:22:15 PM
Xylenes, Total	ND	0.099	mg/Kg	1	12/5/2020 1:22:15 PM
Surr: 4-Bromofluorobenzene	101	80-120	%Rec	1	12/5/2020 1:22:15 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	ND	60	mg/Kg	20	12/7/2020 4:40:30 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

Page 1 of 7

Analytical Report

Lab Order 2012234

Date Reported: 12/10/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd.

Tony La Russa St Com 201H

Lab ID: 2012234-002

2234-002 Matrix: SOIL

Client Sample ID: WS20-10 0-0.5'

Collection Date: 12/2/2020 8:20:00 AM

Received Date: 12/4/2020 8:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: CLP
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	12/5/2020 12:35:16 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	12/5/2020 12:35:16 PM
Surr: DNOP	110	30.4-154	%Rec	1	12/5/2020 12:35:16 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/5/2020 2:33:52 PM
Surr: BFB	103	75.3-105	%Rec	1	12/5/2020 2:33:52 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	12/5/2020 2:33:52 PM
Toluene	ND	0.049	mg/Kg	1	12/5/2020 2:33:52 PM
Ethylbenzene	ND	0.049	mg/Kg	1	12/5/2020 2:33:52 PM
Xylenes, Total	ND	0.098	mg/Kg	1	12/5/2020 2:33:52 PM
Surr: 4-Bromofluorobenzene	103	80-120	%Rec	1	12/5/2020 2:33:52 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	ND	60	mg/Kg	20	12/7/2020 4:52:54 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
 PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 7

Hall Environmental Analysis Laboratory, Inc.

WO#: 2012234

Qual

10-Dec-20

Client: Project: Vertex Resource Group Ltd. Tony La Russa St Com 201H

Sample ID: MB-56826

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID: PBS

Batch ID: 56826

RunNo: 73830

RunNo: 73830

Prep Date: 12/7/2020

Analysis Date: 12/7/2020

SeqNo: 2604047 Units: mg/Kg

Analyte

PQL SPK value SPK Ref Val %REC LowLimit

1.5

HighLimit

Result Chloride ND

Sample ID: LCS-56826

Prep Date: 12/7/2020

Client ID: LCSS

SampType: LCS

TestCode: EPA Method 300.0: Anions

Batch ID: 56826

SeqNo: 2604048

Units: mg/Kg

Analyte

Analysis Date: 12/7/2020

%RPD **RPDLimit** Qual

RPDLimit

PQL SPK value SPK Ref Val %REC LowLimit 1.5

90.6

Chloride

15.00

90

HighLimit 110

%RPD

14

0

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Limit

Page 3 of 7

Hall Environmental Analysis Laboratory, Inc.

WO#: 2012234

10-Dec-20

Client:

Vertex Resource Group Ltd.

Project:

Tony La Russa St Com 201H

Sample ID: MB-56804	Sampl	уре: МЕ	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: PBS	Batcl	h ID: 56 8	804	F	RunNo: 7	3808				
Prep Date: 12/4/2020	Analysis D	Date: 12	2/5/2020	9	SeqNo: 2	601641	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	13		10.00		133	30.4	154			

Sample ID: LCS-56804	SampT	ype: LC	S	Tes	Code: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: LCSS	Batch	ID: 568	804	R	RunNo: 7 :	3808				
Prep Date: 12/4/2020	Analysis D	ate: 12	2/5/2020	S	SeqNo: 2	601643	Units: mg/K	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	92.9	70	130			
Surr: DNOP	5.1		5.000		103	30.4	154			

Sample ID: 2012234-001AMS	SampT	ype: MS	3	Test	Code: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: BS20-02 0.5'	Batch	ID: 56 8	804	R	lunNo: 7	3808				
Prep Date: 12/4/2020	Analysis D	ate: 12	2/5/2020	S	eqNo: 20	601672	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	9.6	47.76	0	100	15	184			
Surr: DNOP	5.0		4.776		105	30.4	154			

Sample ID: 2012234-001AM	SD SampT	ype: MS	SD	Tes	lCode: El	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: BS20-02 0.5'	Batch	ID: 56 8	804	F	RunNo: 7	3808				
Prep Date: 12/4/2020	Analysis D	ate: 12	2/5/2020	S	SeqNo: 20	601673	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	9.9	49.41	0	93.7	15	184	3.15	23.9	
Surr: DNOP	4.6		4.941		93.6	30.4	154	0	0	

Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 4 of 7

Hall Environmental Analysis Laboratory, Inc.

WO#:

RPDLimit

2012234

10-Dec-20

Qual

Qual

S

Client:

Vertex Resource Group Ltd.

Project:

Tony La Russa St Com 201H

Sample ID: mb-56802

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS

Batch ID: 56802

RunNo: 73815

Prep Date: 12/4/2020

Analysis Date: 12/5/2020

SeqNo: 2602132

LowLimit

SPK value SPK Ref Val %REC Result **PQL**

Units: mg/Kg

Analyte Gasoline Range Organics (GRO) ND 5.0

Surr: BFB

1000

1000

105 75.3 105

HighLimit

%RPD

Sample ID: Ics-56802

Client ID:

LCSS

SampType: LCS Batch ID: 56802 TestCode: EPA Method 8015D: Gasoline Range

Prep Date: 12/4/2020 Analysis Date: 12/5/2020 RunNo: 73815

Units: mg/Kg

105

SeqNo: 2602133 **PQL** SPK value SPK Ref Val %REC Analyte Result LowLimit Gasoline Range Organics (GRO) 5.0 25.00 25

HighLimit %RPD **RPDLimit** 99.3 72.5 106

Surr: BFB Sample ID: 2012234-002AMS

Client ID: WS20-10 0-0.5'

SampType: MS Batch ID: 56802

1100

TestCode: EPA Method 8015D: Gasoline Range

112

Prep Date: 12/4/2020 RunNo: 73815

Analysis Date: 12/5/2020 SeqNo: 2602136 Units: mg/Kg

1000

%REC Analyte Result PQL SPK value SPK Ref Val LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 4.9 26 24,46 105 61.3 114 Surr: BFB 1100 978.5 75.3 105 115 S

Sample ID: 2012234-002AMSD

SampType: MSD

TestCode: EPA Method 8015D: Gasoline Range

75.3

Client ID: WS20-10 0-0.5'

Batch ID: 56802

RunNo: 73815

Units: mg/Kg

Prep Date: 12/4/2020 SeqNo: 2602137 Analysis Date: 12/5/2020 Analyte Result PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** LowLimit Qual Gasoline Range Organics (GRO) 24 4.9 24.63 99.0 0 61.3 114 5.01 20 Surr: BFB 1100 985.2 111 75.3 105 0 0 S

Sample ID: mb-56805 PBS

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

Prep Date: 12/4/2020

Batch ID: 56805

RunNo: 73815

Analyte

Client ID:

Analysis Date: 12/6/2020 SPK value SPK Ref Val PQL

SeqNo: 2602155

Units: %Rec

RPDLimit

Surr: BFB

1000

1000

%REC LowLimit HighLimit

Qual

Result

1100

Result

100 75.3

%RPD 105

Sample ID: Ics-56805

Client ID: LCSS

SampType: LCS Batch ID: 56805

RunNo: 73815

TestCode: EPA Method 8015D: Gasoline Range

75.3

Prep Date: 12/4/2020

Analysis Date: 12/5/2020

SeqNo: 2602156

Units: %Rec

Analyte

Surr: BFB

SPK value SPK Ref Val 1000

%REC

112

LowLimit

HighLimit %RPD **RPDLimit** Qual 105 s

Qualifiers:

ND

POL

Value exceeds Maximum Contaminant Level.

Not Detected at the Reporting Limit

Sample Diluted Due to Matrix

Practical Quanitative Limit

Holding times for preparation or analysis exceeded

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank Value above quantitation range

Analyte detected below quantitation limits Sample pH Not In Range

RL Reporting Limit

Released to Imaging: 6/4/2021 2:04:08 PM

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Hall Environmental Analysis Laboratory, Inc.

WO#: 2012234

10-Dec-20

Qual

Qual

Client: Project:

Vertex Resource Group Ltd. Tony La Russa St Com 201H

Sample ID: mb-56802

SampType: MBLK

TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: 56802

RunNo: 73815

SPK value SPK Ref Val %REC LowLimit

Units: mg/Kg

HighLimit

Prep Date: 12/4/2020

Analysis Date: 12/5/2020

SeqNo: 2602184

%RPD

%RPD

RPDLimit

RPDLimit

Analyte Result **PQL** Benzene ND 0.025 Toluene ND 0.050 Ethylbenzene ND 0.050 Xylenes, Total

ND 0.10 Surr: 4-Bromofluorobenzene 1.0

TestCode: EPA Method 8021B: Volatiles

80

Sample ID: LCS-56802 Client ID: LCSS

SampType: LCS Batch ID: 56802

RunNo: 73815

104

Prep Date: 12/4/2020

Analysis Date: 12/5/2020

SeqNo: 2602185

Units: mg/Kg

120

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit
Benzene	0.95	0.025	1.000	0	95.2	80	120
Toluene	0.99	0.050	1.000	0	98.5	80	120
Ethylbenzene	0.97	0.050	1.000	0	96.9	80	120
Xylenes, Total	2.9	0.10	3.000	0	97.8	80	120
Surr: 4-Bromofluorobenzene	1.0		1.000		104	80	120

1,000

Sample ID: 2012234-001AMS

SampType: MS

TestCode: EPA Method 8021B: Volatiles

Client ID: BS20-02 0.5'

Batch ID: 56802

RunNo: 73815

Prep Date: 12/4/20	20 Analysis	Date: 1	2/5/2020	\$	SeqNo: 2	602187	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.91	0.024	0.9728	0	93.7	76.3	120				
Toluene	0.94	0.049	0.9728	0.01509	95.3	78.5	120				
Ethylbenzene	0.96	0.049	0.9728	0	98.4	78.1	124				
Xylenes, Total	2.9	0.097	2.918	0	98.2	79.3	125				
Surr: 4-Bromofluoroben:	zene 0.99		0.9728		102	80	120				

Sample ID: 2012234-001AMSD

SampType: MSD

TestCode: EPA Method 8021B: Volatiles

Client ID: BS20-02 0.5°

Batch ID: 56802

RunNo: 73815

Prep Date: 12/4/2020	Analysis [Date: 12	2/5/2020	S	SeqNo: 2	602188	g					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	0.93	0.025	0.9833	0	94.6	76.3	120	2.05	20			
Toluene	0.96	0.049	0.9833	0.01509	96.3	78.5	120	2.02	20			
Ethylbenzene	0.96	0.049	0.9833	0	97.4	78.1	124	0.0173	20			
Xylenes, Total	2.9	0.098	2.950	0	98.6	79.3	125	1.55	20			
Surr: 4-Bromofluorobenzene	1.0		0.9833		104	80	120	0	0			

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit Practical Quanitative Limit

POL % Recovery outside of range due to dilution or matrix Analyte detected in the associated Method Blank

Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range Reporting Limit

Page 6 of 7

Hall Environmental Analysis Laboratory, Inc.

WO#: 2012234

10-Dec-20

Client: Project: Vertex Resource Group Ltd. Tony La Russa St Com 201H

Sample ID: mb-56805

SampType: MBLK

TestCode: EPA Method 8021B: Volatiles

Client ID: PBS

Batch ID: 56805

RunNo: 73815

Prep Date: 12/4/2020

Analysis Date: 12/6/2020

SeqNo: 2602207

LowLimit

PQL

Units: %Rec

Analyte

Result 1.0 SPK value SPK Ref Val 1.000

120

HighLimit

RPDLimit Qual

%RPD

Surr: 4-Bromofluorobenzene

TestCode: EPA Method 8021B: Volatiles

101

Sample ID: LCS-56805 Client ID: LCSS

SampType: LCS

RunNo: 73815

%REC

80

LowLimit

Units: %Rec

Analyte

Prep Date: 12/4/2020

80

Surr: 4-Bromofluorobenzene

1.0

1.000

103

120

HighLimit

SPK value SPK Ref Val %REC

SeqNo: 2602208

%RPD

RPDLimit Qual

PQL

Batch ID: 56805

Analysis Date: 12/6/2020

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix н

Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit

POL Practical Quanitative Limit % Recovery outside of range due to dilution or matrix Analyte detected in the associated Method Blank

Е Value above quantitation range

Analyte detected below quantitation limits Sample pH Not In Range

Reporting Limit

Page 7 of 7



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

Sample Log-In Check List

Client Name:	Vertex Resource Group	Work Order Number:	2012	 234		RoptNo: 1	
	Ltd.			·		ropuro. I	
Received By:	Sean Livingston	12/4/2020 8:00:00 AM		S	-6	zal-	
Completed By:	Desiree Dominguez	12/4/2020 8:30:19 AM		T	2		
Reviewed By:	· ll-	12/462					
Chain of Cust					_		
1. Is Chain of Cu			Yes	✓ No		Not Present	
2. How was the	sample delivered?		Couri	<u> 30</u>			
Log In							
3. Was an attem	pt made to cool the samples	?	Yes	√ No		NA 🖂	
4 .44						_	
4. Were all samp	les received at a temperatur	e of >0° C to 6.0°C	Yes	✓ No		NA 🗆	
5. Sample(s) in p	proper container(s)?		Yes	✓ No			
				_	_		
	ple volume for indicated test			✓ No			
_	except VOA and ONG) prope	rly preserved?		No.			
o. was preservat	ive added to bottles?		Yes [No	V	NA 🗌	
9. Received at lea	ast 1 vial with headspace <1	/4" for AQ VOA?	Yes [No		NA 🗹	
10. Were any sam	ple containers received brok	ten?	Yes	No	V		
4.4 =				_	_	# of preserved bottles checked	
	rk match bottle labels? ncies on chain of custody)		Yes	⊻ No		for pH: (<2 or >12	unless noted)
	orrectly identified on Chain of	f Custody?	Yes [✓ No		Adjusted?	411000 110100)
3. Is it clear what	analyses were requested?		Yes [✓ No			
	g times able to be met?		Yes	✓ No		Checked by: S(x)	12/4/20
	stomer for authorization.)					1-	
	ng (if applicable)						
15. Was client not	tified of all discrepancies with	this order?	Yes	☐ No		NA 🗹	
Person t	Notified:	Date:					
By Who		Via:] eMai	l Phone] Fax	In Person	
Regardir							
	structions:						
16. Additional ren	narks:						
17. Cooler Inform	The second second						
Cooler No	Temp °C Condition 8	Seal Intact Seal No S	eal Da	te Signed	Ву		
2	1.5 Good						
3	0.2 Good						

Page 1 of 1

HALL ENVIRONMENTAL	ANALYSIS LABORATORY		37109	Fax 505-345-4107		(tu	S ,₄Oq aedA\tr	10 ^{5°}	ог е (А(310 310 310 310	y 83 3 Me 3t, 1 OA emi	EDB (M PAHs by RCRA 8 8260 (V 8270 (S Total Co)	>						Zatali Gronder	0.3-6	Iracled data will be clearly notated on the analytical report.
			901 H	Tel. 5(-(0						9081 Pe							₹ š:	(CC.)	or the	/. Any si
			4									(X∃T8 08:H9T	7	7		\dashv	 +	\vdash	Remarks:		کے	ossibility
Turn-Around Time: 6 Day	☑ Standard □ Rush	Project Name:	Tony Le Musson SI cel l'al	Project #:	00E-00001		Gordon		On Ice: TYes DNo	olers: 3	Cooler Temp(including CF): スペース・ハース (*C)	Container Preservative 2013234	405 1CC -001	402 100 -002					Date Time	Ullumin 0/3/20 (135	Received by: Via: Date Time $S_{(7L)} = C_{(1)} (R_{(1)} + R_{(2)}) = R_{(2)} = R_{(2$	contracted to other accredited laboratories. This serves as notice of this p
of-Custody Record	X2+207		Mailing Address:		Phone #:	email or Fax#:	QA/QC Package: □ Standard □ Level 4 (Full Validation)	Accreditation: Az Compliance	□ Other	□ EDD (Type)		Matrix Sample Name	2 0.5'						Date: Time: Relinquished by:		Date: Time: Relinquished by:	- S. S.

ATTACHMENT 8

Natalie Gordon

From: John Hurt <JHurt@matadorresources.com>
Sent: Friday, November 20, 2020 10:16 AM

To: Natalie Gordon

Subject: FW: Closure Denied - Matador - Tony La Russa St Com 201H-202H - (Incident

#NRM2008758101)

Attachments: Closure Denied - Matador - Tony La Russa St Com 201H-202H - (Incident

#NRM2008758101).pdf

WTF

From: Hamlet, Robert, EMNRD [mailto:Robert.Hamlet@state.nm.us]

Sent: Friday, November 20, 2020 10:09 AM **To:** John Hurt <JHurt@matadorresources.com>

Cc: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Eads, Cristina, EMNRD <Cristina.Eads@state.nm.us>;

spills@slo.state.nm.us

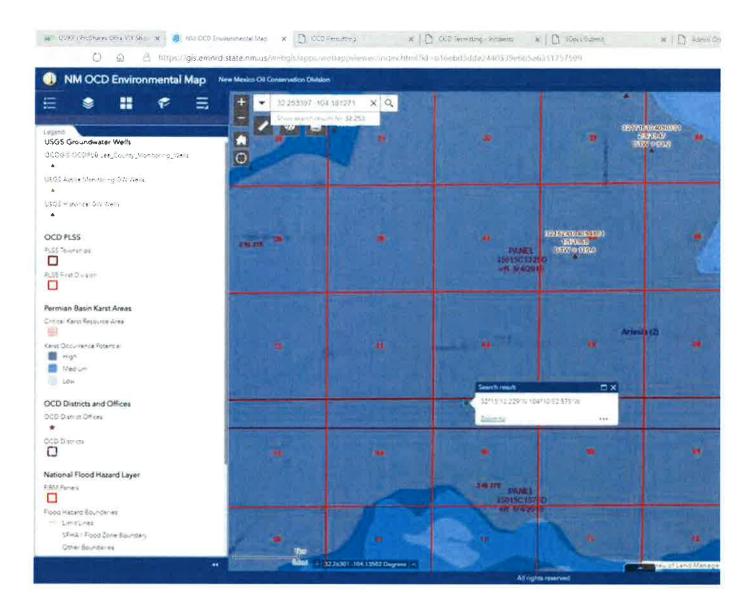
Subject: Closure Denied - Matador - Tony La Russa St Com 201H-202H - (Incident #NRM2008758101)

EXTERNAL EMAIL

John,

We have received your closure report and final C-141 for <u>Incident #NRM2008758101</u> Tony La Russa St Com 201H-202H, thank you. This closure is denied.

- This release has occurred in a High Karst area and will need to be remediated to the strictest closure criteria of <50' depth to groundwater from Table 1 of the spill rule. The current spill rule may be viewed here: http://164.64.110.134/parts/title19/19.015.0029.html
- When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, and data should be no more than 25 years old, and well construction information should be provided. If evidence of depth to ground water within a ½ mile radius of the site cannot be provided, impacted soils will need to meet Table 1 Closure Criteria for ground water at a depth of 50 feet or less.
- Please continue to horizontally delineate sample points BS 20-02 and WS20-10 to 600 mg/kg for chlorides.



Please let me know if you have any further questions.

Regards,

Robert Hamlet ● Environmental Eng. Tech. III Environmental Bureau EMNRD - Oil Conservation Division 811 S. First Street | Artesia, NM 88210 505.748.1283 | robert.hamlet@state.nm.us http://www.emnrd.state.nm.us/OCD/



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

This message is strictly confidential and is for the sole use of the intended recipient. If you are not the intended recipient of this message, you may not disclose, print, copy, disseminate or otherwise use this message or the information included herein. If you are not the intended recipient, please reply and notify the sender (only) and promptly delete the message.

Natalie Gordon

From: John Hurt <JHurt@matadorresources.com>

Sent: Friday, November 20, 2020 10:17 AM

To: Natalie Gordon

Subject: FW: New Mexico OCD Application Submission was Rejected by the OCD

From: OCDOnline@state.nm.us [mailto:OCDOnline@state.nm.us]

Sent: Friday, November 20, 2020 10:35 AM **To:** John Hurt <JHurt@matadorresources.com>

Subject: New Mexico OCD Application Submission was Rejected by the OCD

EXTERNAL EMAIL

The Oil Conservation Division (OCD) has rejected the application PO: YOFWH-200727-C-1410. The original application was submitted by John Hurt for MATADOR PRODUCTION COMPANY.

The user added the additional comment:

"We have received your closure report and final C-141 for Incident #NRM2008758101 Tony La Russa St Com 201H-202H, thank you. This closure is denied.".

If you are concerned about receiving this email or have any other questions, please feel free to contact our Santa Fe OCD office.

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

This message is strictly confidential and is for the sole use of the intended recipient. If you are not the intended recipient of this message, you may not disclose, print, copy, disseminate or otherwise use this message or the information included herein. If you are not the intended recipient, please reply and notify the sender (only) and promptly delete the message.

Form C-141

Page 6

State of New Mexico
Oil Conservation Division

Incident ID	NRM2008758101
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.

Closure Report Attachment Checklist: 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)
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 Hurt Title: RES Specialist Signature: Date: JHurt@matadorresources.com Telephone: 972-371-5200
OCD Only Received by: Robert Hamlet Date: 11/20/2020
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: Denied Date: 11/20/2020
Printed Name: Robert Hamlet Title: Environmental Eng. Tech. III

Form C-141 Page 6 State of New Mexico
Oil Conservation Division

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

Incident ID	NRM2008758101
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.

X A scaled site and sampling diagram as described in 19.15.29.11 NMAC	
New Photographs of the remediated site prior to backfill or photos of the line must be notified 2 days prior to liner inspection)	r integrity if applicable (Note: appropriate OCD District office
■ Laboratory analyses of final sampling (Note: appropriate ODC District o	ffice must be notified 2 days prior to final sampling)
Description of remediation activities	
I hereby certify that the information given above is true and complete to the be and regulations all operators are required to report and/or file certain release no may endanger public health or the environment. The acceptance of a C-141 reshould their operations have failed to adequately investigate and remediate conhuman health or the environment. In addition, OCD acceptance of a C-141 reproduced with any other federal, state, or local laws and/or regulations. The restore, reclaim, and re-vegetate the impacted surface area to the conditions the accordance with 19.15.29.13 NMAC including notification to the OCD when the Printed Name: John Hurt	otifications and perform corrective actions for releases which port by the OCD does not relieve the operator of liability stamination that pose a threat to groundwater, surface water, port does not relieve the operator of responsibility for responsible party acknowledges they must substantially at existed prior to the release or their final land use in eclamation and re-vegetation are complete. RES Specialist
OCD Only	
Received by: Robert Hamlet Dat	e: <u>6/4/2021</u>
Closure approval by the OCD does not relieve the responsible party of liability remediate contamination that poses a threat to groundwater, surface water, humparty of compliance with any other federal, state, or local laws and/or regulation	an health, or the environment nor does not relieve the responsible
Closure Approved by: Robert Hamlet	Date: 6/4/2021
Printed Name: Robert Hamlet	Title: Environmental Specialist - Advanced

District I
1625 N. French Dr., Hobbs, NM 88240
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District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

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

Action 15647

CONDITIONS

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	15647
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your closure report and final C-141 for Incident #NRM2008758101 TONY LA RUSSA STATE COM 201H/202H, thank you. This closure is approved.	6/4/2021