

Incident ID	nAPP2230454572
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: Arsenio Jones Title: RES Specialist
Signature: Clint Talley Date: 01/25/2023
email: arsenio.jones@matadorresources.com Telephone: 575-361-4333

OCD Only

Received by: Jocelyn Harimon Date: 01/31/2023

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Robert Hamlet Date: 5/24/2023
Printed Name: Robert Hamlet Title: Environmental Specialist - Advanced



December 19, 2022

Vertex Project #: 22E-03804

Spill Closure Report: Tony La Russa Tank Battery
Section 03, Township 24 South, Range 27 East
API: 30-015-45964
County: Eddy
Incident Report: nAPP2230454572

Prepared For: **Matador Production Company**
5400 LBJ Freeway, Suite 1500
Dallas, Texas 75240

New Mexico Oil Conservation Division – Artesia

811 South 1st Street
Artesia, New Mexico 88210

Matador Resources Company retained Vertex Resource Services Inc. (Vertex) to conduct a Spill Assessment and Remediation for a release of produced water caused by backfeed from the lines resulting in tank overflow into the temporary lined containment on the pad at Tony La Russa Tank Battery, API 30-015-45964, Incident nAPP2230454572 (hereafter referred to as “Tony”). This letter provides a description of the Spill Assessment and Remediation, and includes a request for Spill Closure. The spill area is located at N 32.25296, W - 104.18171.

Background

The site is located approximately 5.5 miles west of Loving, New Mexico (Google Inc., 2022). The legal location for the site is Section 03, Township 24 South, Range 27 East in Eddy County, New Mexico. The spill area is located on State property. An aerial photograph and site schematic are included on Figure 1 (Attachment 1).

The Geological Map of New Mexico (New Mexico Bureau of Geology and Mineral Resources, 2022) indicates the site’s surface geology is comprised primarily of Qp - Piedmont alluvial deposits (Holocene to lower Pleistocene) that include deposits of higher gradient tributaries bordering major stream valleys, alluvial veneers of the piedmont slope and alluvial fans. May locally include uppermost Pliocene deposits. Predominant soil texture on the site is loamy. The Natural Resources Conservation Service *Web Soil Survey* characterizes the predominant soil texture on the site is Reagan loam. It tends to be well drained with low runoff and moderate available moisture levels in the soil profile (United States Department of Agriculture, Natural Resources Conservation Service, 2022).

The surrounding landscape is associated with ridges, hills, plains and alluvial fans at elevations of 2,842 to 5,000 feet above sea level. The climate is semi-arid, with an annual precipitation ranging between 8 to 13 inches. Historically, the plant community has grassland aspect, dominated by grasses with shrubs and half-shrubs. Black grama is dominant with a mixture of blue grama, burrograss and tobosa. Overgrazing and extended drought can reduce grass cover (United States Department of Agriculture, Natural Resources Conservation Service, 2022).

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There is no surface water located at Tony. The nearest significant watercourse, as defined in Subsection P of 19.15.17.7 Mexico Administrative Code (NMAC; New Mexico Oil Conservation Division, 2018), is the Black River located approximately 0.85 miles south of the site (Google Inc., 2022). There are no continuous flowing watercourses or significant 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.

Incident Description

The spill occurred on October 31, 2022, when backfeed from closing valves at the manifold and intake caused the tanks to overflow. The spill was reported on October 31, 2022, and involved the release of approximately 92 barrels (bbl.) of produced water into lined containment. Approximately 80 bbl. of free fluid was removed during initial spill clean-up. Field screening and laboratory analysis data are included in Table 2 (Attachment 2). The New Mexico Oil Conservation Division (NMOCD) C-141 Report: nAPP2230454572 is included in Attachment 3. The daily field report (DFR) and site photographs are included in Attachment 4.

Closure Criteria Determination

The depth to groundwater was determined using information from the United States Department of the Interior, United States Geological Survey (2022) National Water Information Mapping System and New Mexico Office of the State Engineer (2022) Water Rights Reporting System. A 0.5-mile search radius was used to determine groundwater depth. The closest recorded depth to groundwater was determined to be 67 feet below ground surface (bgs) and 0.81 miles from the site (New Mexico Office of the State Engineer, New Mexico Water Rights Reporting System, 2022). Documentation used in Closure Criteria Determination research is included in Attachment 5.

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Closure Criteria Worksheet			
Site Name: Tony La Russa Tank Battery			
Spill Coordinates:		X: 32.25296	Y: -104.18171
Site Specific Conditions		Value	Unit
1	Depth to Groundwater	67	feet
2	Within 300 feet of any continuously flowing watercourse or any other significant watercourse	4,512	feet
3	Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark)	38,846	feet
4	Within 300 feet from an occupied residence, school, hospital, institution or church	13,847	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	4,276	feet
	ii) Within 1000 feet of any fresh water well or spring	4,276	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	4,512	feet
8	Within the area overlying a subsurface mine	No	(Y/N)
9	Within an unstable area (Karst Map)	Medium	Critical High Medium Low
10	Within a 100-year Floodplain	500	year
11	Soil Type	Reagan Loam	
12	Ecological Classification	Loamy	
13	Geology	Qp	
NMAC 19.15.29.12 E (Table 1) Closure Criteria		<50'	<50' 51-100' >100'

The closure criteria determined for the site are associated with the following constituent concentration limits as presented in Table 1.

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Table 1. Closure Criteria for Soils Impacted by a Release		
Minimum depth below any point within the horizontal boundary of the release to groundwater less than 10,000 mg/l TDS	Constituent	Limit
< 50 feet	Chloride - Horizontal	600 mg/kg
	Chloride - Vertical	250 mg/kg
	TPH (GRO+DRO+MRO)	100 mg/kg
	BTEX	50 mg/kg
	Benzene	10 mg/kg

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

Remedial Actions Taken

An initial site inspection of the spill area was completed on October 31, 2022, which identified the area of the spill specified in the initial C-141 Report, estimated the approximate volume of the spill and white lined the area required for the 811 One Call request. The impacted area was determined to be approximately 223 feet long and 116 feet wide; the total affected area was determined to be 10,526 square feet after excavation had been completed. The DFR associated with the site inspection is included in Attachment 4.

Remediation efforts began on November 21, 2022, and were completed on November 30, 2022. Vertex personnel supervised the excavation of impacted soils. Field screening was completed on multiple sample points and consisted of analysis using Dextsil Petroflag using EPA SW-846 Method 9074 (extractable hydrocarbons) and electroconductivity meter (chlorides). Field screening results were used to identify areas requiring further remediation from those areas showing concentrations below determined closure criteria levels. Soils were removed to a depth of 1.5 feet bgs. An aerial view and site schematic of excavation and sample locations is included on Figure 2 (Attachment 1). Impacted soil was transported by a licensed waste hauler and disposed of at an approved waste management facility. Field screening results are included in Table 2 (Attachment 2).

Notification that confirmatory samples were being collected was provided to the NMOCD on November 29, 2022, and is included in Attachment 6. Confirmatory composite samples were collected from the base and walls of the excavation in 200 square foot increments. A total of 71 samples were collected for laboratory analysis following NMOCD soil sampling procedures. Samples were submitted to Hall Environmental Analysis Laboratory under chain-of-custody protocols and analyzed for BTEX (EPA Method 8021B), total petroleum hydrocarbons (GRO, DRO, MRO – EPA Method 8015D) and total chlorides (EPA Method 300.0). Laboratory results are presented in Table 3 (Attachment 2) and the laboratory data report is included in Attachment 7. All confirmatory samples collected and analyzed were below closure criteria for the site.

Closure Request

The spill area was fully delineated, remediated and will be backfilled with local soils. The Confirmatory Sample Notification email is included in Attachment 6. Confirmatory samples were analyzed by the laboratory and found to be below allowable concentrations as per the NMAC Closure Criteria for Soils Impacted by a Release locations “under 50 feet to groundwater”. Based on these findings, Matador Resources Company respectfully requests that this spill be

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closed.

Should you have any questions or concerns, please do not hesitate to contact the undersigned at 575.361.9880 or mpeppin@vertex.ca.



Monica Peppin, A.Sc.
PROJECT MANAGER, REPORTING

December 20, 2022
Date

Attachments

- Attachment 1. Figures
- Attachment 2. Tables
- Attachment 3. NMOCD C-141 Report
- Attachment 4. Daily Field Reports with Photographs
- Attachment 5. Closure Criteria for Soils Impacted by a Release Research Determination Documentation
- Attachment 6. Confirmatory Sample Notification
- Attachment 7. Laboratory Data Reports and Chain of Custody Forms

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Tony La Russa Tank Battery, nAPP2230454572

2022 Spill Assessment and Remediation
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References

- Google Inc. (2022). *Google Earth Pro* (Version 7.3.4) [Software]. Retrieved from <http://www.google.com/earth> on November 2, 2022.
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- United States Fish and Wildlife Service. (2022). *National Wetlands Inventory Surface Waters and Wetland*. Retrieved from <https://www.fws.gov/wetlands/data/Mapper.html>.

Matador Resources Company
Tony La Russa Tank Battery, nAPP2230454572

2022 Spill Assessment and Remediation
December 2022

Limitations

This report has been prepared for the sole benefit of Matador Resources Company. This document may not be used by any other person or entity, with the exception of the New Mexico Oil Conservation Division and State Land Office, without the express written consent of Vertex Resource Services Inc. (Vertex) and Matador Resources Company. 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

Document Path: \\vix-sf01.corp.internal\shared\p04 - Geomatics\1-Projects\ US PROJECTS\Matador Resources\22E-03804\Figure 1 Characterization Schematic Tony La Russa Tank Battery.mxd



- ◆ Borehole
- - Pipeline (Aboveground)
- Release area (7,806 sq. ft.)



0 7.5 15 30 ft.
 NAD 1983 UTM Zone 13N
 Date: Dec 16/22

Map Center:
 Lat: 32.253098,
 Long: -104.181706



Characterization Schematic Tony La Russa Tank Battery

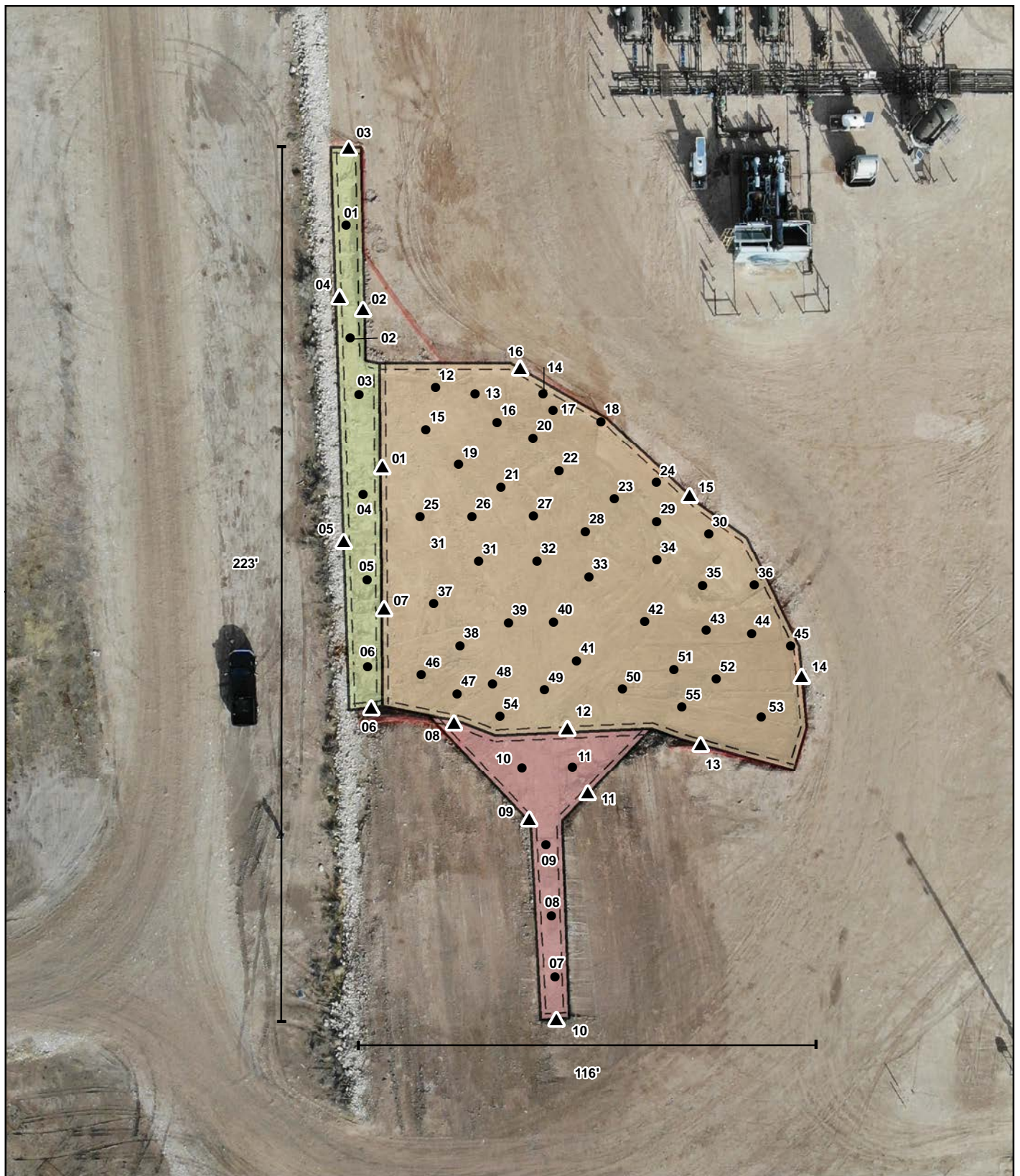
FIGURE:
 1



Geospatial data presented in this figure may be derived from external sources and Vertex does not assume any liability for inaccuracies. This figure is intended for reference use only and is not certified for legal, survey, or engineering purposes.

Note: Background image from UAV Survey. Map features from GPS survey, Vertex Professional Services, 2022.

VERSATILITY. EXPERTISE.



- Base Sample (Prefixed by "BS22-")
- ▲ Wall Sample (Prefixed by "WS22-")
- Excavation to 0.5' (~1,119 sq. ft.)
- Excavation to 1.5' (~1,259 sq. ft.)
- Excavation to 1' (~8,148 sq. ft.)



0 7.5 15 30 ft. Map Center:
 Lat: 32.253095,
 NAD 1983 UTM Zone 13N Long:-104.181778
 Date: Dec 13/22



Excavation Area Tony La Russa Tank Battery

FIGURE:

2



Geospatial data presented in this figure may be derived from external sources and Vertex does not assume any liability for inaccuracies. This figure is intended for reference use only and is not certified for legal, survey, or engineering purposes.

Note: Background image from UAV survey. Features from GPS. Vertex Professional Services Ltd., 2022.

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ATTACHMENT 2

Client Name: Matador Production Company
 Site Name: Tony La Russa Tank Battery
 NMOCD Tracking #: nAPP2230454572
 Project #: 22E-03804
 Lab Reports: 2211B76

Table 2. Initial Characterization Sample Field Screen and Laboratory Results - Depth to Groundwater <50 feet bgs													
Sample Description			Field Screening			Petroleum Hydrocarbons							Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds	Extractable Organic Compounds (PetroFlag)	Chloride Concentration	Volatile		Extractable					
						Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	
			(ppm)	(ppm)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
BH22-01	0'	2022-11-16	-	-	490	ND	ND	ND	ND	ND	ND	ND	ND
	1'	2022-11-16	-	-	585	ND	ND	ND	ND	ND	ND	ND	72
	2'	2022-11-16	-	-	422	ND	ND	ND	ND	ND	ND	ND	110
BH22-02	0'	2022-11-16	-	-	2,092	ND	ND	ND	80	46	80	126	1700
	1'	2022-11-16	-	-	711	ND	ND	ND	ND	ND	ND	ND	130
	2'	2022-11-16	-	-	285	ND	ND	ND	ND	ND	ND	ND	ND
BH22-03	0'	2022-11-16	-	-	11,461	ND	ND	ND	960	510	960	1470	10000
	1'	2022-11-16	-	-	913	ND	ND	ND	ND	ND	ND	ND	130
	2'	2022-11-16	-	-	621	ND	ND	ND	ND	ND	ND	ND	260
BH22-04	0'	2022-11-16	-	-	400	ND	ND	ND	ND	ND	ND	ND	290
	1'	2022-11-16	-	-	1,187	ND	ND	ND	ND	ND	ND	ND	180
	2'	2022-11-16	-	-	363	ND	ND	ND	ND	ND	ND	ND	110
BH22-05	0'	2022-11-16	-	-	3,006	ND	ND	ND	530	280	530	810	2300
	1'	2022-11-16	-	-	783	ND	ND	ND	ND	ND	ND	ND	350
	2'	2022-11-16	-	-	705	ND	ND	ND	ND	ND	ND	ND	170
BH22-06	0'	2022-11-16	-	-	5,604	ND	ND	ND	150	71	150	221	4500
	1'	2022-11-16	-	-	383	ND	ND	ND	ND	ND	ND	ND	ND
	2'	2022-11-16	-	-	653	ND	ND	ND	ND	ND	ND	ND	ND
BH22-07	0'	2022-11-17	-	-	2,987	ND	0.1	7.9	880	340	887.9	1227.9	4900
	1'	2022-11-17	-	-	558	ND	ND	ND	ND	ND	ND	ND	ND
	2'	2022-11-17	-	-	514	ND	ND	ND	ND	ND	ND	ND	60
BH22-08	0'	2022-11-16	-	-	1,923	ND	ND	ND	180	97	180	227	860
	1'	2022-11-16	-	-	561	ND	ND	ND	ND	ND	ND	ND	79
	2'	2022-11-16	-	-	775	ND	ND	ND	ND	ND	ND	ND	120
BH22-09	0'	2022-11-17	-	-	725	ND	ND	ND	19	ND	19	19	190
	1'	2022-11-17	-	-	585	ND	ND	ND	ND	ND	ND	ND	78
	2'	2022-11-17	-	-	460	ND	ND	ND	ND	ND	ND	ND	180
BH22-10	0'	2022-11-17	-	-	1,119	ND	ND	ND	ND	ND	ND	ND	ND
	1'	2022-11-17	-	-	603	ND	ND	ND	ND	ND	ND	ND	61
	2'	2022-11-17	-	-	485	ND	ND	ND	ND	ND	ND	ND	230
BH22-11	0'	2022-11-17	-	-	1,121	ND	ND	ND	ND	ND	ND	ND	96
	1'	2022-11-17	-	-	953	ND	ND	ND	ND	ND	ND	ND	350
	2'	2022-11-17	-	-	425	ND	ND	ND	ND	ND	ND	ND	340
BH22-12	0'	2022-11-17	-	-	420	ND	ND	ND	20	57	20	77	ND
	1'	2022-11-17	-	-	458	ND	ND	ND	ND	ND	ND	ND	65
	2'	2022-11-17	-	-	350	ND	ND	ND	ND	ND	ND	ND	110

"ND" Not Detected at the Reporting Limit

"-" indicates not analyzed/assessed

Bold and grey shaded indicates exceedance outside of NMOCD Closure Criteria (on-pad)

Client Name: Matador Production Company

Site Name: Tony La Russa Tank Battery

NMOCD Tracking #: nAPP2230454572

Project #: 22E-03804

Lab Reports: 2212231, 2212227

Sample Description			Field Screening			Petroleum Hydrocarbons							Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds (PID)	Extractable Organic Compounds (PetroFlag)	Chloride Concentration	Volatile		Extractable					
						Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	
			(ppm)	(ppm)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
BS22-01	1.5'	2022-12-01	-	2	415	ND	ND	ND	ND	ND	ND	ND	ND
BS22-02	1.5'	2022-12-01	-	18	313	ND	ND	ND	ND	ND	ND	ND	ND
BS22-03	1.5'	2022-12-01	-	15	383	ND	ND	ND	ND	ND	ND	ND	ND
BS22-04	1.5'	2022-12-01	-	8	463	ND	ND	ND	ND	ND	ND	ND	80
BS22-05	1.5'	2022-12-01	-	4	303	ND	ND	ND	ND	ND	ND	ND	110
BS22-06	1.5'	2022-12-01	-	9	258	ND	ND	ND	ND	ND	ND	ND	ND
BS22-07	1.5'	2022-12-01	-	31	300	ND	ND	ND	ND	ND	ND	ND	ND
BS22-08	0.5'	2022-12-01	-	84	340	ND	ND	ND	ND	ND	ND	ND	ND
BS22-09	0.5'	2022-12-01	-	31	303	ND	ND	ND	ND	ND	ND	ND	ND
BS22-10	0.5'	2022-12-01	-	28	395	ND	ND	ND	ND	ND	ND	ND	ND
BS22-11	0.5'	2022-12-01	-	14	305	ND	ND	ND	ND	ND	ND	ND	ND
BS22-12	1.5'	2022-12-01	-	5	418	ND	ND	ND	ND	ND	ND	ND	65
BS22-13	1.5'	2022-12-01	-	1	430	ND	ND	ND	ND	ND	ND	ND	140
BS22-14	1.5'	2022-12-01	-	12	323	ND	ND	ND	ND	ND	ND	ND	ND
BS22-15	1.5'	2022-12-01	-	5	405	ND	ND	ND	ND	ND	ND	ND	ND
BS22-16	1.5'	2022-12-01	-	1	343	ND	ND	ND	ND	ND	ND	ND	66
BS22-17	1.5'	2022-12-01	-	1	468	ND	ND	ND	ND	ND	ND	ND	ND
BS22-18	1.5'	2022-12-01	-	10	505	ND	ND	ND	ND	ND	ND	ND	160
BS22-19	1.5'	2022-12-01	-	5	360	ND	ND	ND	ND	ND	ND	ND	250
BS22-20	1.5'	2022-12-01	-	7	348	ND	ND	ND	ND	ND	ND	ND	150
BS22-21	1.5'	2022-12-01	-	16	533	ND	ND	ND	ND	ND	ND	ND	93
BS22-22	1.5'	2022-12-01	-	4	345	ND	ND	ND	ND	ND	ND	ND	ND
BS22-23	1.5'	2022-12-01	-	15	505	ND	ND	ND	ND	ND	ND	ND	230
BS22-24	1.5'	2022-12-01	-	14	518	ND	ND	ND	ND	ND	ND	ND	170
BS22-25	1.5'	2022-12-01	-	1	238	ND	ND	ND	ND	ND	ND	ND	ND
BS22-26	1.5'	2022-12-01	-	10	240	ND	ND	ND	ND	ND	ND	ND	ND
BS22-27	1.5'	2022-12-01	-	17	383	ND	ND	ND	ND	ND	ND	ND	400
BS22-28	1.5'	2022-12-01	-	14	543	ND	ND	ND	ND	ND	ND	ND	270
BS22-29	1.5'	2022-12-01	-	13	505	ND	ND	ND	ND	ND	ND	ND	180
BS22-30	1.5'	2022-12-01	-	11	473	ND	ND	ND	ND	ND	ND	ND	110
BS22-31	1.5'	2022-12-01	-	9	440	ND	ND	ND	ND	ND	ND	ND	110
BS22-32	1.5'	2022-12-01	-	6	383	ND	ND	ND	ND	ND	ND	ND	ND
BS22-33	1.5'	2022-12-01	-	23	503	ND	ND	ND	ND	ND	ND	ND	160
BS22-34	1.5'	2022-12-01	-	4	550	ND	ND	ND	ND	ND	ND	ND	ND
BS22-35	1.5'	2022-12-01	-	5	473	ND	ND	ND	ND	ND	ND	ND	ND
BS22-36	1.5'	2022-12-01	-	3	510	ND	ND	ND	ND	ND	ND	ND	160
BS22-37	1.5'	2022-12-01	-	9	490	ND	ND	ND	ND	ND	ND	ND	180
BS22-38	1.5'	2022-12-01	-	9	475	ND	ND	ND	ND	ND	ND	ND	ND
BS22-39	1.5'	2022-12-01	-	6	508	ND	ND	ND	ND	ND	ND	ND	ND
BS22-40	1.5'	2022-12-01	-	4	418	ND	ND	ND	ND	ND	ND	ND	ND
BS22-41	1.5'	2022-12-01	-	0	363	ND	ND	ND	ND	ND	ND	ND	ND
BS22-42	1.5'	2022-12-01	-	1	405	ND	ND	ND	ND	ND	ND	ND	ND
BS22-43	1.5'	2022-12-01	-	4	388	ND	ND	ND	ND	ND	ND	ND	ND
BS22-44	1.5'	2022-12-01	-	0	473	ND	ND	ND	ND	ND	ND	ND	ND
BS22-45	1.5'	2022-12-01	-	0	503	ND	ND	ND	ND	ND	ND	ND	ND
BS22-46	1.5'	2022-12-01	-	0	485	ND	ND	ND	ND	ND	ND	ND	ND
BS22-47	1.5'	2022-12-01	-	11	430	ND	ND	ND	ND	ND	ND	ND	ND
BS22-48	1.5'	2022-12-01	-	8	450	ND	ND	ND	ND	ND	ND	ND	ND
BS22-49	1.5'	2022-12-01	-	10	390	ND	ND	ND	ND	ND	ND	ND	ND
BS22-50	1.5'	2022-12-01	-	0	505	ND	ND	ND	ND	ND	ND	ND	ND

Client Name: Matador Production Company
 Site Name: Tony La Russa Tank Battery
 NMOCD Tracking #: nAPP2230454572
 Project #: 22E-03804
 Lab Reports: 2212231, 2212227

Table 3. Confirmatory Sample Field Screen and Laboratory Results - Depth to Groundwater <50 feet bgs

Table 3. Confirmatory Sample Field Screen and Laboratory Results - Depth to Groundwater <50 feet bgs													
Sample Description			Field Screening			Petroleum Hydrocarbons							Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds (PID)	Extractable Organic Compounds (PetroFlag)	Chloride Concentration	Volatile		Extractable					
						Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	
			(ppm)	(ppm)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
BS22-51	1.5'	2022-12-01	-	19	418	ND	ND	ND	ND	ND	ND	ND	ND
BS22-52	1.5'	2022-12-01	-	0	388	ND	ND	ND	ND	ND	ND	ND	76
BS22-53	1.5'	2022-12-01	-	5	523	ND	ND	ND	ND	ND	ND	ND	91
BS22-54	1.5'	2022-12-01	-	7	525	ND	ND	ND	ND	ND	ND	ND	97
BS22-55	1.5'	2022-12-01	-	7	508	ND	ND	ND	ND	ND	ND	ND	ND
WS22-01	0-1.5'	2022-12-01	-	19	270	ND	ND	ND	ND	ND	ND	ND	83
WS22-02	0-1.5'	2022-12-01	-	2	330	ND	ND	ND	ND	ND	ND	ND	ND
WS22-03	0-1.5'	2022-12-01	-	0	278	ND	ND	ND	ND	ND	ND	ND	ND
WS22-04	0-1.5'	2022-12-01	-	0	235	ND	ND	ND	ND	ND	ND	ND	ND
WS22-05	0-1.5'	2022-12-01	-	13	323	ND	ND	ND	ND	ND	ND	ND	120
WS22-06	0-1.5'	2022-12-01	-	12	255	ND	ND	ND	ND	ND	ND	ND	93
WS22-07	0-1.5'	2022-12-01	-	4	283	ND	ND	ND	ND	ND	ND	ND	ND
WS22-08	1'	2022-12-01	-	0	238	ND	ND	ND	ND	ND	ND	ND	ND
WS22-09	0.5'	2022-12-01	-	21	275	ND	ND	ND	ND	ND	ND	ND	ND
WS22-10	0.5'	2022-12-01	-	3	400	ND	ND	ND	ND	ND	ND	ND	62
WS22-11	0.5'	2022-12-01	-	22	385	ND	ND	ND	ND	ND	ND	ND	ND
WS22-12	1'	2022-12-01	-	0	275	ND	ND	ND	ND	ND	ND	ND	ND
WS22-13	1'	2022-12-01	-	17	310	ND	ND	ND	ND	ND	ND	ND	ND
WS22-14	1'	2022-12-01	-	23	350	ND	ND	ND	ND	ND	ND	ND	ND
WS22-15	1'	2022-12-01	-	35	305	ND	ND	ND	ND	ND	ND	ND	ND
WS22-16	1'	2022-12-01	-	0	550	ND	ND	ND	ND	ND	ND	ND	79

"ND" Not Detected at the Reporting Limit

"-" indicates not analyzed/assessed

ATTACHMENT 3

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

State of New Mexico
Energy Minerals and Natural
Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	nAPP2230454572
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	Matador Production Company	OGRID	228937
Contact Name	Arsenio Jones	Contact Telephone	575-361-4333
Contact email	arsenio.jones@matadorresources.com	Incident # (assigned by OCD)	nAPP2230454572
Contact mailing address	5400 LBJ Freeway, Suite 1500 Dallas, Texas 75240		

Location of Release Source

Latitude 32.25296 Longitude -104.18171
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Tony La Russa Tank Battery	Site Type	CTB
Date Release Discovered	10/31/2022	API# (if applicable)	30-015-45964

Unit Letter	Section	Township	Range	County
C	03	24S	27E	Eddy

Surface Owner: ☒ State ☐ Federal ☐ Tribal ☐ Private (Name: _____)

Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 92 BBLS	Volume Recovered (bbls) 80 BBLS
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

When valves were closed at the manifold and intake, backfeed from the lines caused the tanks to overflow into the temporary lined containment and fluid release outside of containment.

Incident ID	nAPP2230454572
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? >25 bbls
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Arsenio Jones with matador completed NOR immediately following estimate bbl calculated via email to OCD online.	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped.	
<input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment.	
<input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
<input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why: 	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Arsenio Jones</u>	Title: <u>Safety Specialist - Regulatory</u>
Signature: <u>Clint Talley</u>	Date: <u>01/25/2023</u>
email: <u>arsenio.jones@matadorresources.com</u>	Telephone: <u>575-361-4333</u>
<u>OCD Only</u>	
Received by: _____	Date: _____

Incident ID	nAPP2230454572
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?	____ 67 ____ (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

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

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	nAPP2230454572
District RP	
Facility ID	
Application ID	

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

Printed Name: Arsenio Jones Title: RES SpecialistSignature: Clint Talley Date: 01/25/2023email: arsenio.jones@matadorresources.com Telephone: 575-361-4333**OCD Only**Received by: Jocelyn Harimon Date: 01/31/2023

Incident ID	nAPP2230454572
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: Arsenio Jones Title: RES Specialist
Signature: Clint Talley Date: 01/25/2023
email: arsenio.jones@matadorresources.com Telephone: 575-361-4333

OCD Only

Received by: Jocelyn Harimon Date: 01/31/2023

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

ATTACHMENT 4



Daily Site Visit Report

Client:	Matador Resources	Inspection Date:	10/31/2022
Site Location Name:	Tony La Russa State Com 201H/202H	Report Run Date:	10/31/2022 9:24 PM
Client Contact Name:	Arsenio Jones	API #:	30-015-45964
Client Contact Phone #:	(575)361-4333		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	

Summary of Times

Arrived at Site	10/31/2022 1:00 PM
Departed Site	10/31/2022 3:00 PM

Field Notes

- 14:25** New release around temporary containment and within containment.
- 14:32** Around a total of 80 bbls recovered between containment and ground. Contractor on site to start scraping around release area to remove contamination
- 14:33** Approximately 194 bbls released. Temporary containment will be moved to confirm any contamination that may have flowed underneath it
- 14:48** Release all stayed on pad. Estimate barrels released was based off ksat of background soils and compensate for the hard packed caliche brought in to complete engineered pad.
- 14:51** During initial scrape of area, backhoe being used was have difficulty busting through caliche layer, therefore providing evidence that the pad was hard packed to prevent contamination from breaching past the engineered pad layer. Initial scrape is being used to remove any contamination as soon as possible to prevent the spread of further horizontal and vertical contamination

Next Steps & Recommendations

- 1 Complete delineation
- 2 Excavation

Daily Site Visit Report



Site Photos

Viewing Direction: North



Release area

Viewing Direction: South



Release area

Viewing Direction: North



Release area

Viewing Direction: East



Release area



Daily Site Visit Report

Viewing Direction: East



Release area

Viewing Direction: Northeast



Release area

Viewing Direction: East



Release area

Viewing Direction: North



Release area



Daily Site Visit Report

Viewing Direction: Northwest



Release area

Viewing Direction: North



Release area

Viewing Direction: West



Release area

Viewing Direction: West



Release area



Daily Site Visit Report

Viewing Direction: South



Release area

Viewing Direction: West



Release area

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Monica Peppin

Signature:

A handwritten signature in black ink, appearing to be 'Monica Peppin', written over a thin horizontal line. Below the line, the word 'Signature' is printed in a small, light gray font.

Signature



Daily Site Visit Report

Client:	Matador Resources	Inspection Date:	12/1/2022
Site Location Name:	Tony La Russa State Com 201H/202H	Report Run Date:	12/1/2022 10:50 PM
Client Contact Name:	Arsenio Jones	API #:	30-015-45964
Client Contact Phone #:	(575)361-4333		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	

Summary of Times

Arrived at Site	12/1/2022 8:15 AM
Departed Site	12/1/2022 3:30 PM

Field Notes

15:17 Arrived on location and held safety meeting with Fernando Rodriguez.

15:17 Began collecting and field screening confirmatory samples of the site

15:18 All wall samples returned clean on chlorides and petroflag

15:18 Al base samples were collected and field screened clean on petroflag and for chlorides.

15:18 Photographed site

Next Steps & Recommendations

1 Send samples to lab for confirmation

Daily Site Visit Report



Site Photos

Viewing Direction: North



Southern extent of excavation

Viewing Direction: West



Base of site in north of excavation

Viewing Direction: West



Base of site in center of excavation


Viewing Direction: East



Base of site in center of excavation



Daily Site Visit Report

<p>Viewing Direction: East</p>  <p>Descriptive Photo .3 Viewing Direction: East Desc: Southern wall of excavation Created: 12/1/2022 3:21:10 PM Lat: 32.253009, Long: 104.181933</p> <p>Southern wall of excavation</p>	<p>Viewing Direction: South</p>  <p>Descriptive Photo .3 Viewing Direction: South Desc: Eastern extent of excavation Created: 12/1/2022 3:21:10 PM Lat: 32.253009, Long: 104.181933</p> <p>Eastern extent of excavation</p>
<p>Viewing Direction: Northwest</p>  <p>Descriptive Photo .3 Viewing Direction: Northwest Desc: Base and southwest wall of excavation Created: 12/1/2022 3:21:10 PM Lat: 32.253009, Long: 104.181933</p> <p>Base and southwest wall of excavation</p>	<p>Viewing Direction: North</p>  <p>Descriptive Photo .3 Viewing Direction: North Desc: Western extent, western wall and and base of excavation at 2' depth Created: 12/1/2022 3:21:19 PM Lat: 32.253009, Long: 104.181933</p> <p>Western extent, western wall and and base of excavation at 2' depth</p>



Daily Site Visit Report

Viewing Direction: Southeast



Southeast corner of excavation

Viewing Direction: North



Northeast portion of excavation

Viewing Direction: South



Northern extent of excavation



Viewing Direction: South



Western base of excavation



Daily Site Visit Report

Viewing Direction: East	Viewing Direction: Southeast
	
North and northeastern walls of site	Northeast wall of site

Daily Site Visit Report



Daily Site Visit Signature

Inspector: McKitric Wier

Signature:

A handwritten signature in black ink, appearing to be 'McKitric Wier', written over a horizontal line. The word 'Signature' is printed in small text below the line on the left.

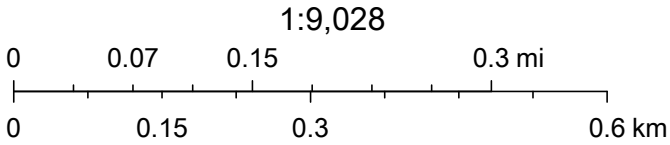
ATTACHMENT 5

Tony La Russa TB - Nearest OSE Well



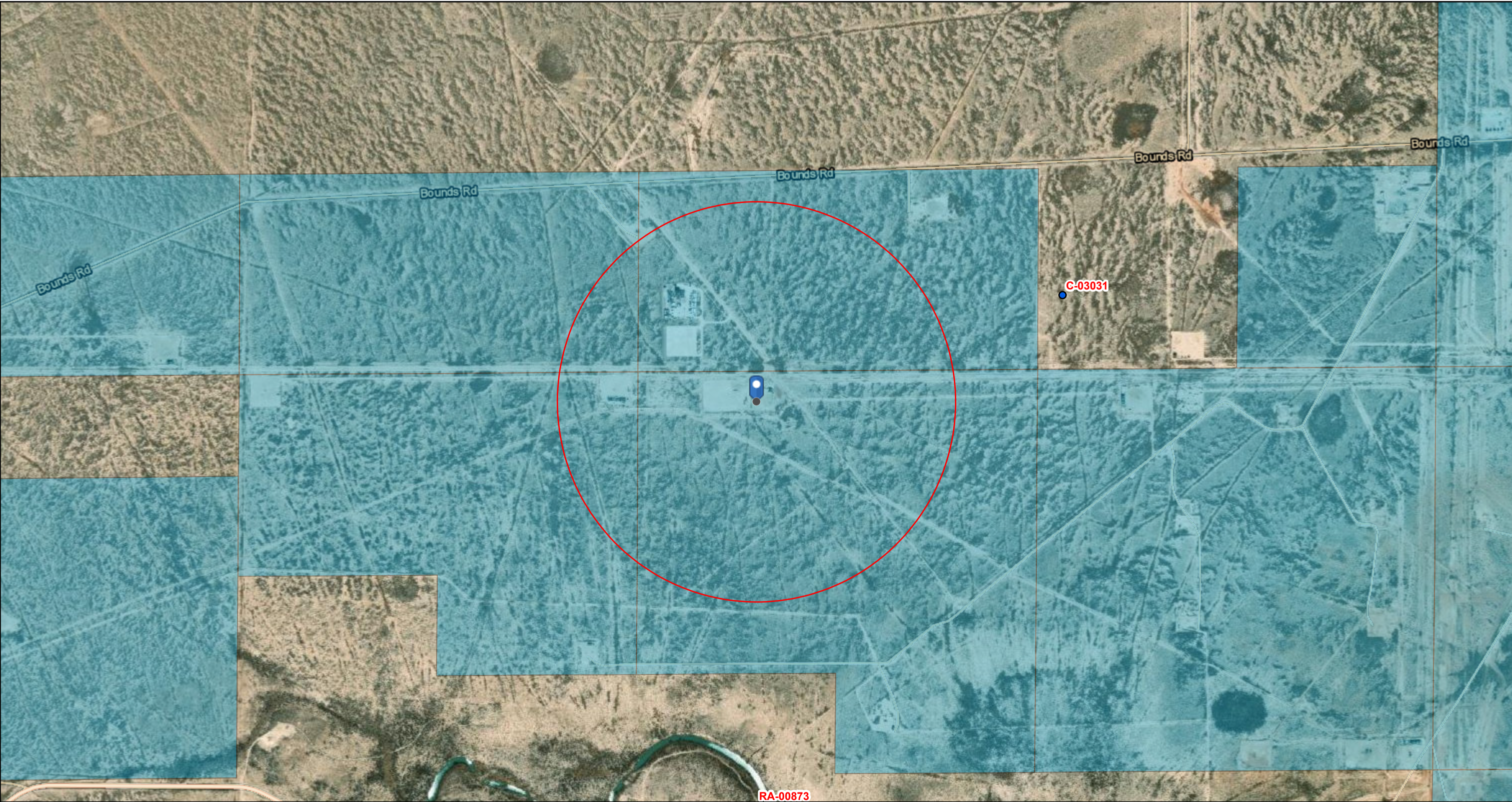
11/2/2022, 1:58:51 PM

- Override 1
- OSE District Boundary
- SiteBoundaries
- GIS WATERS PODs
- New Mexico State Trust Lands
- Active
- Both Estates



Esri, HERE, GeoTechnologies, Inc., Esri, HERE, Garmin, GeoTechnologies, Inc., U.S. Department of Energy Office of Legacy Management, Maxar

Tony La Russa TB 0.5-mile radius



11/1/2022, 5:04:09 PM

GIS WATERS PODs

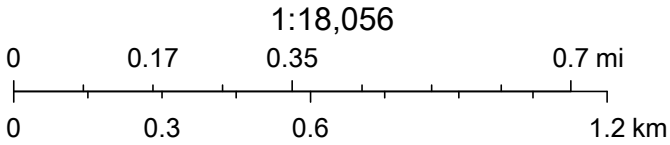
• Active

OSE District Boundary

New Mexico State Trust Lands

Both Estates

SiteBoundaries



Esri, HERE, GeoTechnologies, Inc., Esri, HERE, Garmin, GeoTechnologies, Inc., U.S. Department of Energy Office of Legacy Management, Maxar



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	Tw	Rng	X	Y
C	03031	1	3	3	35	23S	27E	578315	3569206*

Driller License: 685 **Driller Company:** BRAZEAL, JOHN

Driller Name: WAYNE BRAZEAL

Drill Start Date: 06/10/2004 **Drill Finish Date:** 06/16/2004 **Plug 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	Description
139	150	Other/Unknown

Casing Perforations:

Top	Bottom
90	150

*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.

11/2/22 1:56 PM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Water Right Summary


[get image list](#)

WR File Number: C 03031

Subbasin: C

Cross Reference: -

Primary Purpose: DOL 72-12-1 DOMESTIC AND LIVESTOCK WATERING

Primary Status: PMT PERMIT

Total Acres:

Subfile: -

Header: -

Total Diversion: 3

Cause/Case: -

Owner: ROBBY WALTERSCHEID

Documents on File

	Trn #	Doc	File/Act	Status		Transaction Desc.	From/ To	Acres	Diversion	Consumptive
				1	2					
	467090	72121	2004-02-05	PMT	LOG	C 03031	T		3	

Current Points of Diversion

(NAD83 UTM in meters)

POD Number	Well Tag	Source	Q	64Q16Q4Sec	Tws	Rng	X	Y	Other Location Desc
C 03031		Shallow	1	3	3	35 23S 27E	578315	3569206*	

An () after northing value indicates UTM location was derived from PLSS - see Help

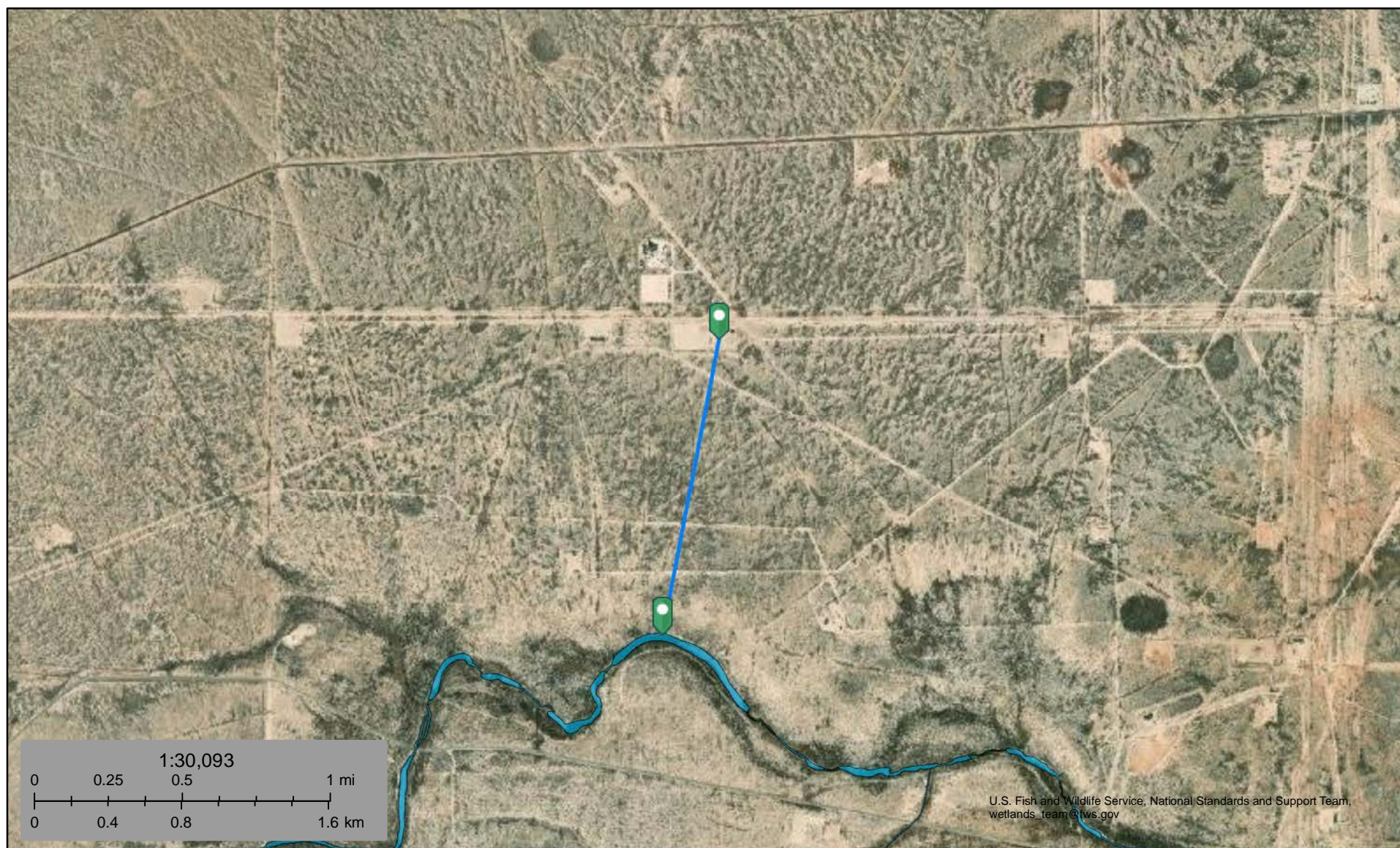
The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

11/2/22 1:53 PM

WATER RIGHT SUMMARY



Watercourse and Wetlands



November 1, 2022

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

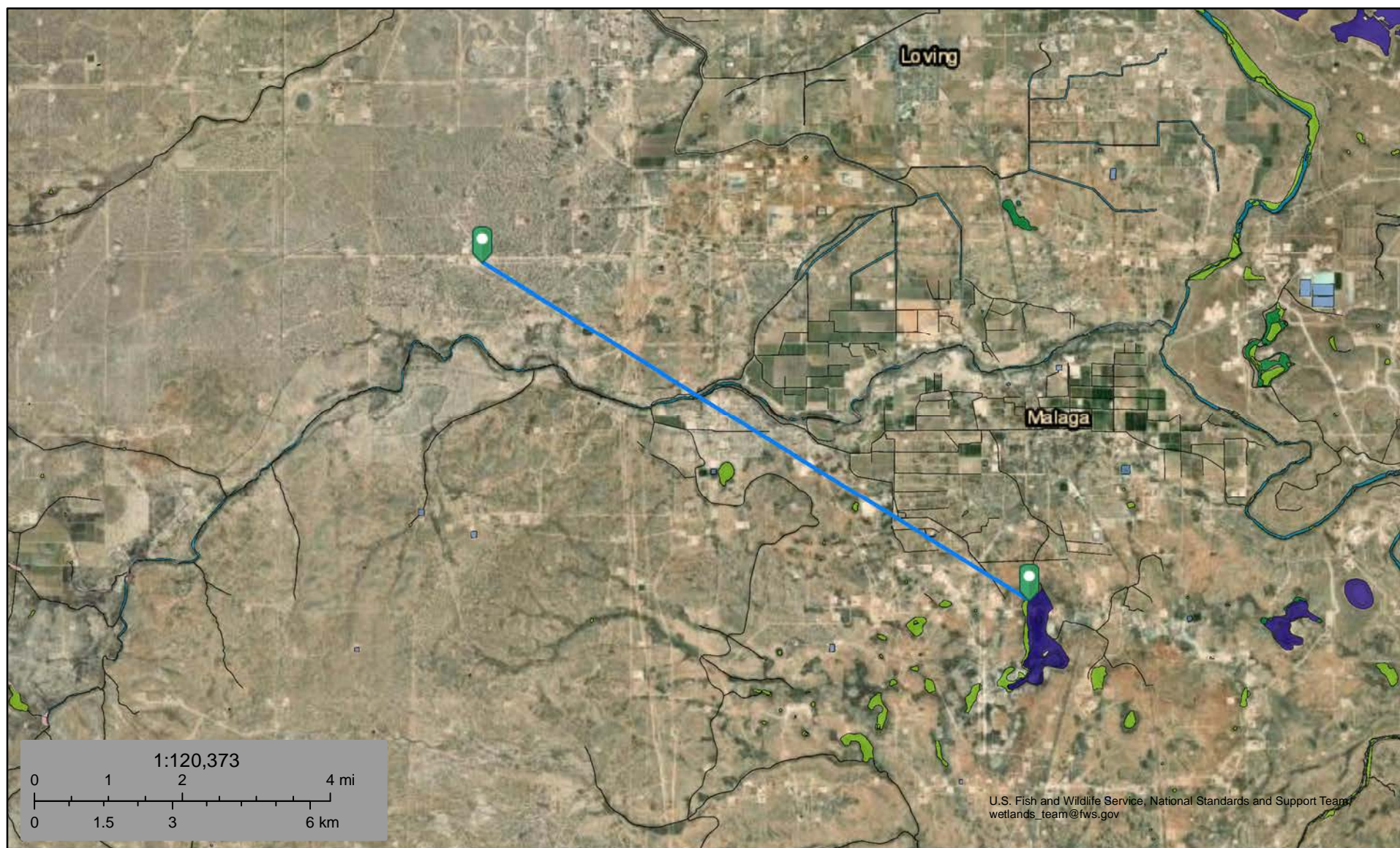
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

- Lake
- Other
- Riverine

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.



Lakebed



November 1, 2022

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond


- Lake
- Other
- Riverine

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.


Tony La Russa TB

Nearest Residence: 2.62 miles (13,847 feet)

Legend

 Feature 1

759

Tony La Russa Tank Battery 

Google Earth







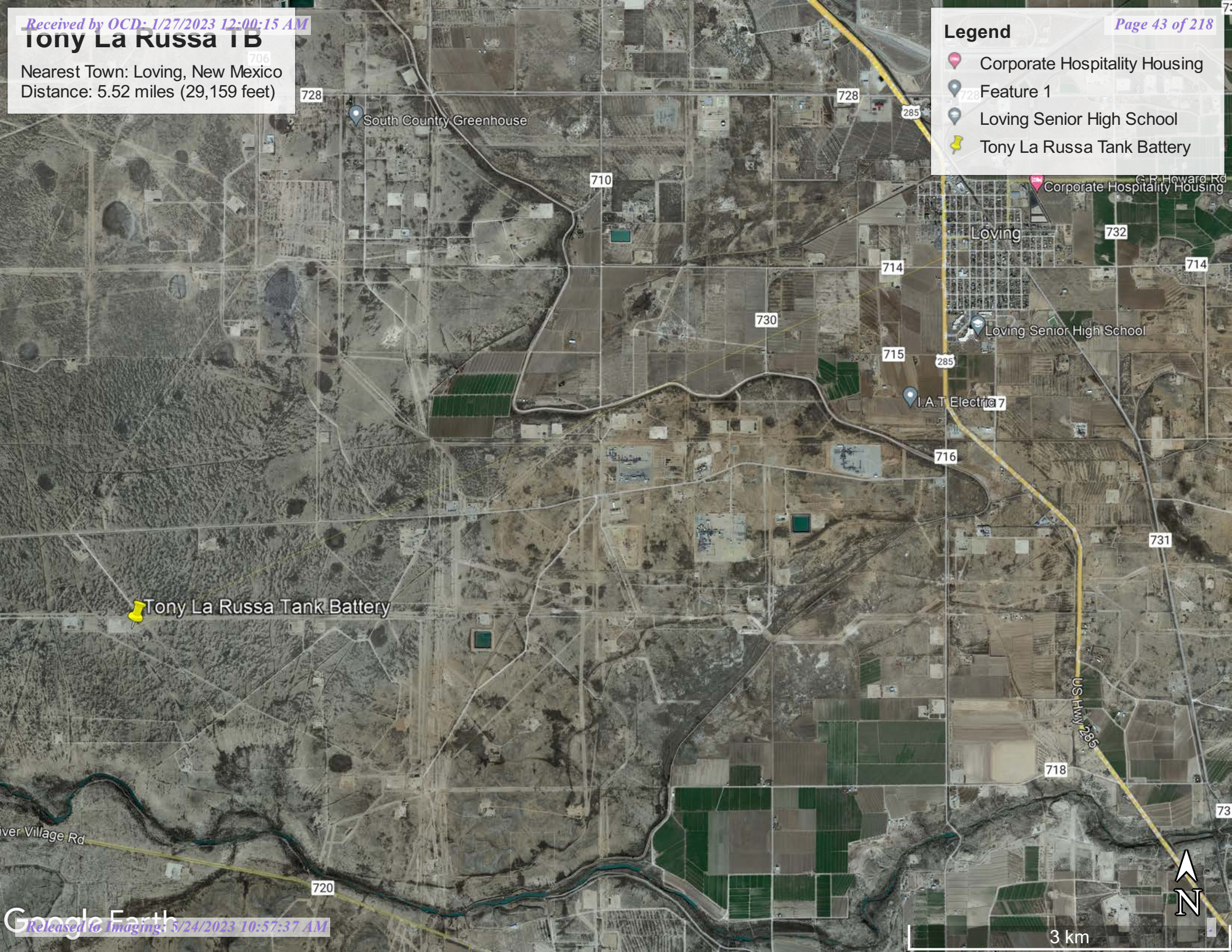
1 km

Tony La Russa TB

Nearest Town: Loving, New Mexico
Distance: 5.52 miles (29,159 feet)

Legend

-  Corporate Hospitality Housing
-  Feature 1
-  Loving Senior High School
-  Tony La Russa Tank Battery

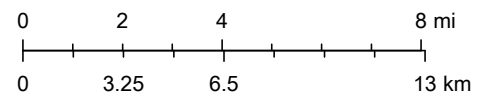


Tony La Russa Tank Battery

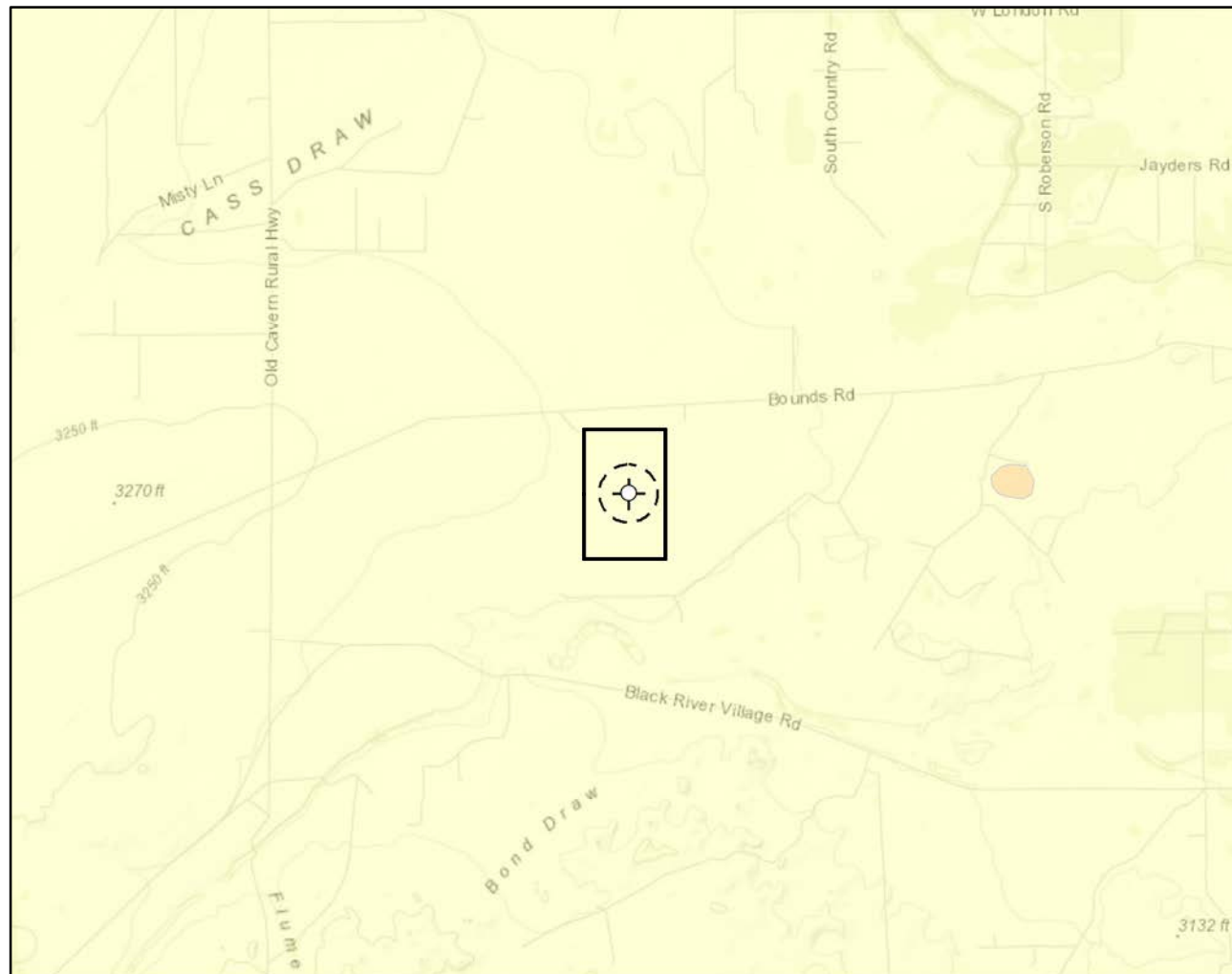


11/1/2022, 4:48:57 PM

1:288,895



Earthstar Geographics, New Mexico State University, Texas Parks & Wildlife, CONANP, Esri, HERE, Garmin, SafeGraph, METI/NASA, USGS, EPA, NPS, USDA

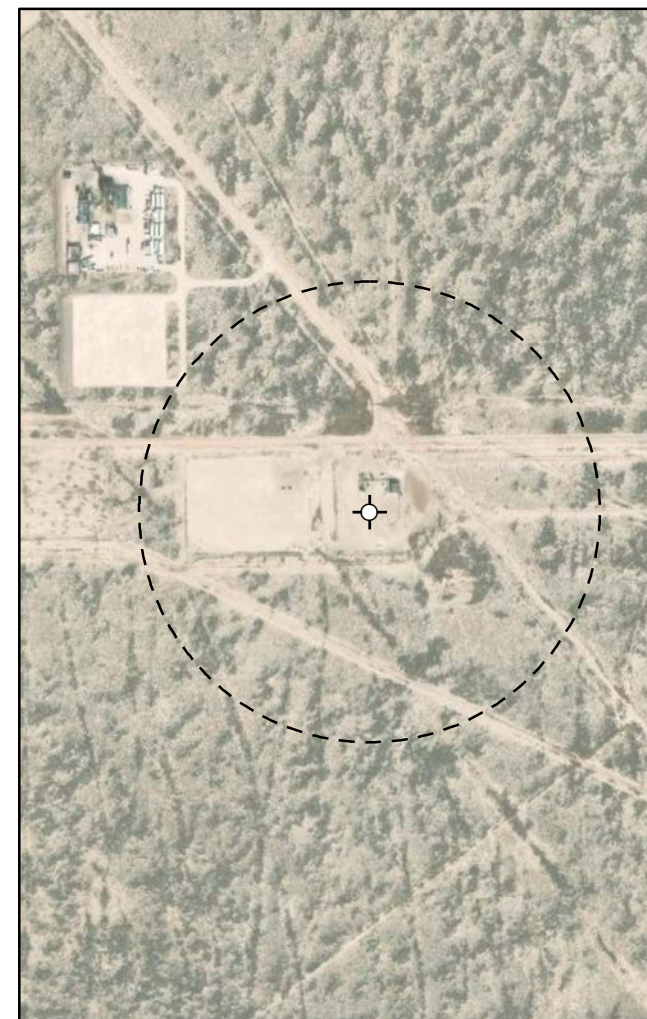
**Karst Potential**

- Critical
- High
- Medium
- Low

- Site Location
- Site Buffer (1,000 ft.)

Overview Map

0 0.25 0.5 1 mi

**Detail Map**

0 150 300 600 ft.



Map Center:
Lat/Long: 32.253023, -104.181871

NAD 1983 UTM Zone 13N
Date: Nov 04/22



Karst Potential Map
Tony La Russa Tank Battery

FIGURE:

X



Geospatial data presented in this figure may be derived from external sources and Vertex does not assume any liability for inaccuracies. This figure is intended for reference use only and is not certified for legal, survey, or engineering purposes.

Note: Inset Map, ESRI 20XX; Overview Map: ESRI World Topographic. Karst potential data sourced from Roswell Field Office, Bureau of Land Management, 2020 or United States Department of the Interior, Bureau of Land Management. (2018). Karst Potential.

VERSATILITY. EXPERTISE.

National Flood Hazard Layer FIRMette



104°11'13"W 32°15'26"N



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
GENERAL STRUCTURES		Area of Undetermined Flood Hazard Zone D
		Channel, Culvert, or Storm Sewer
OTHER FEATURES		Levee, Dike, or Floodwall
		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped

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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 11/1/2022 at 6:36 PM and does not 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.

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

Soil Map—Eddy Area, New Mexico



Natural Resources
Conservation Service

Web Soil Survey
National Cooperative Soil Survey

11/1/2022
Page 1 of 3

Soil Map—Eddy Area, New Mexico

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

Water Features



Streams and Canals

Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

Background



Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

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

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the 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.

Soil Survey Area: Eddy Area, New Mexico

Survey Area Data: Version 18, Sep 8, 2022

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Feb 27, 2020—Feb 28, 2020

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 Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
RA	Reagan loam, 0 to 3 percent slopes	7.4	100.0%
Totals for Area of Interest		7.4	100.0%

Map Unit Description: Reagan loam, 0 to 3 percent slopes---Eddy Area, New Mexico

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: Fan remnants, alluvial fans

Landform position (three-dimensional): Rise

Down-slope shape: Convex, linear

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

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 content: 40 percent

Maximum salinity: Very slightly saline to moderately saline (2.0 to 8.0 mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: Moderate (about 8.2 inches)

Interpretive groups

Land capability classification (irrigated): 2e

Land capability classification (nonirrigated): 6e

Hydrologic Soil Group: B

Map Unit Description: Reagan loam, 0 to 3 percent slopes---Eddy Area, New Mexico

Ecological site: R070BC007NM - Loamy
Hydric soil rating: No

Minor Components

Atoka

Percent of map unit: 1 percent
Ecological site: R070BC007NM - Loamy
Hydric soil rating: No

Upton

Percent of map unit: 1 percent
Ecological site: R070BC025NM - Shallow
Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico
Survey Area Data: Version 18, Sep 8, 2022





Ecological site R070BC007NM Loamy

Accessed: 11/01/2022

General information

Provisional. A provisional ecological site description has undergone quality control and quality assurance review. It contains a working state and transition model and enough information to identify the ecological site.

Figure 1. Mapped extent

Areas shown in blue indicate the maximum mapped extent of this ecological site. Other ecological sites likely occur within the highlighted areas. It is also possible for this ecological site to occur outside of highlighted areas if detailed soil survey has not been completed or recently updated.

Table 1. Dominant plant species

Tree	Not specified
Shrub	Not specified
Herbaceous	Not specified

Physiographic features

This site occurs on uplands landforms, mainly on hill slopes, ridges, plains, terraces and some fan remnants. Slopes range from 1 to 5 percent and average about 3 percent. Average annual precipitation is about 8 to 14 inches. Elevations range from 2,842 to 5,000 feet.

Table 2. Representative physiographic features

Landforms	(1) Plain (2) Terrace (3) Fan piedmont
Flooding frequency	None
Ponding frequency	None
Elevation	2,842–5,000 ft
Slope	0–5%
Aspect	E, S, W

Climatic features

The average annual precipitation ranges from 8 to 13 inches. Variations of 5 inches, more or less, are common. Over 80 percent of the precipitation falls from April through October. Most of the summer precipitation comes in the form of high intensity short duration thunderstorms.

Temperatures are characterized by distinct seasonal changes and large annual and diurnal temperature changes. The average annual temperature is 61 degrees with extremes of 25 degrees below zero in the winter to 112 degrees in the summer.

The average frost-free season is 207 to 220 days. The last killing frost is in late March or early April, and the first killing frost is in late October or early November.

Temperature and rainfall both favor warm season perennial plant growth. In years of abundant spring moisture, annual forbs and cool season grasses can make up an important component of this site. Strong winds blow from the southwest in January through June rapidly drying out the soil during a critical time for cool season plant growth.

Climate data was obtained from <http://www.wrcc.sage.dri.edu/summary/climsmnm.html> web site using 50% probability for freeze-free and frost-free seasons using 28.5 degrees F and 32.5 degrees F respectively.

Table 3. Representative climatic features

Frost-free period (average)	221 days
Freeze-free period (average)	240 days
Precipitation total (average)	13 in

Influencing water features

This site is not influenced by wetland or streams.

Soil features

The soils of this site are deep to moderately deep. The moderately deep soils have either a petrocalcic, petrogypsic or gypsum horizon between 30 and 40 inches.

Surface textures are loam, silt loam, very fine sandy loam, or clay loam. Substratum textures are loam, silty clay loam, clay loam, or silt loams. Subsoil textures are silt loam, clay loam, silty clay loam, gravelly loam, gravelly clay loam or very gravelly loam. Permeability is moderate to slow and the available water holding capacity is high to moderate. The Atoka, Reeves, Russler, Milner soils may have high amounts of CaCO₃, ranging as high as 40 percent in the subsoil. Rock fragments range from 5 to 50 percent in the subsoil. Reeves, Russler, Milner, Holloman soils will have 40 to 80 percent gypsum in the underlying material.

Maximum and minimum values listed below represent the characteristic soils for this site.

Characteristic Soils:

Atoka (petrocalcic)
 Bigetty
 Reagan
 Reakor
 Reeves (gypsum)
 Russler (gypsum)
 Largo
 Russler (gypsum)
 Largo
 Berino
 Tinney
 Midessa
 Ratliff
 Holloman (gypsum)
 Milner (gypsum)

Table 4. Representative soil features

Surface texture	(1) Loam (2) Very fine sandy loam (3) Silt loam
Family particle size	(1) Loamy
Drainage class	Well drained to somewhat excessively drained
Permeability class	Moderate to slow
Soil depth	30–72 in

Surface fragment cover <=3"	0–5%
Surface fragment cover >3"	0%
Available water capacity (0–40in)	5–12 in
Calcium carbonate equivalent (0–40in)	0–10%
Electrical conductivity (0–40in)	0–8 mmhos/cm
Sodium adsorption ratio (0–40in)	0–6
Soil reaction (1:1 water) (0–40in)	6.6–8.4
Subsurface fragment volume <=3" (Depth not specified)	0–5%
Subsurface fragment volume >3" (Depth not specified)	0%

Ecological dynamics

Overview: The Loamy site is associated with the Gyp Upland ecological site with which it intergrades. There is a pronounced increase in alkali sacaton along this interface. The loamy site is also associated with the Gravelly and Shallow ecological sites from which it receives run-on water. The Draw site often dissects Loamy sites and is distinguished from the Loamy site by increased production or greater densities of woody species. The historic plant community has a grassland aspect, dominated by grasses with shrubs and half-shrubs sparse and evenly distributed. Tobosa, black grama and blue grama are the dominant species. Retrogression within this state is characterized by a decrease in black and blue grama and an increase in burrograss. Continuous overgrazing and drought can initiate a transition to a Burrograss- Grassland state. Continued reduction in grass cover and resulting infiltration problems may eventually effect a change to a Bare State, with very little or no remaining grass cover. Alternatively, creosotebush, tarbush or mesquite may expand or invade. Transitions back to a Grassland State from a Bare or Shrub-Dominated state are costly and may not be economically feasible. Decreased fire frequency may play a part in the transition to the Grass/Succulent Mix state with increased amounts of cholla and prickly pear.

State and transition model

Plant Communities and Transitional Pathways (diagram)

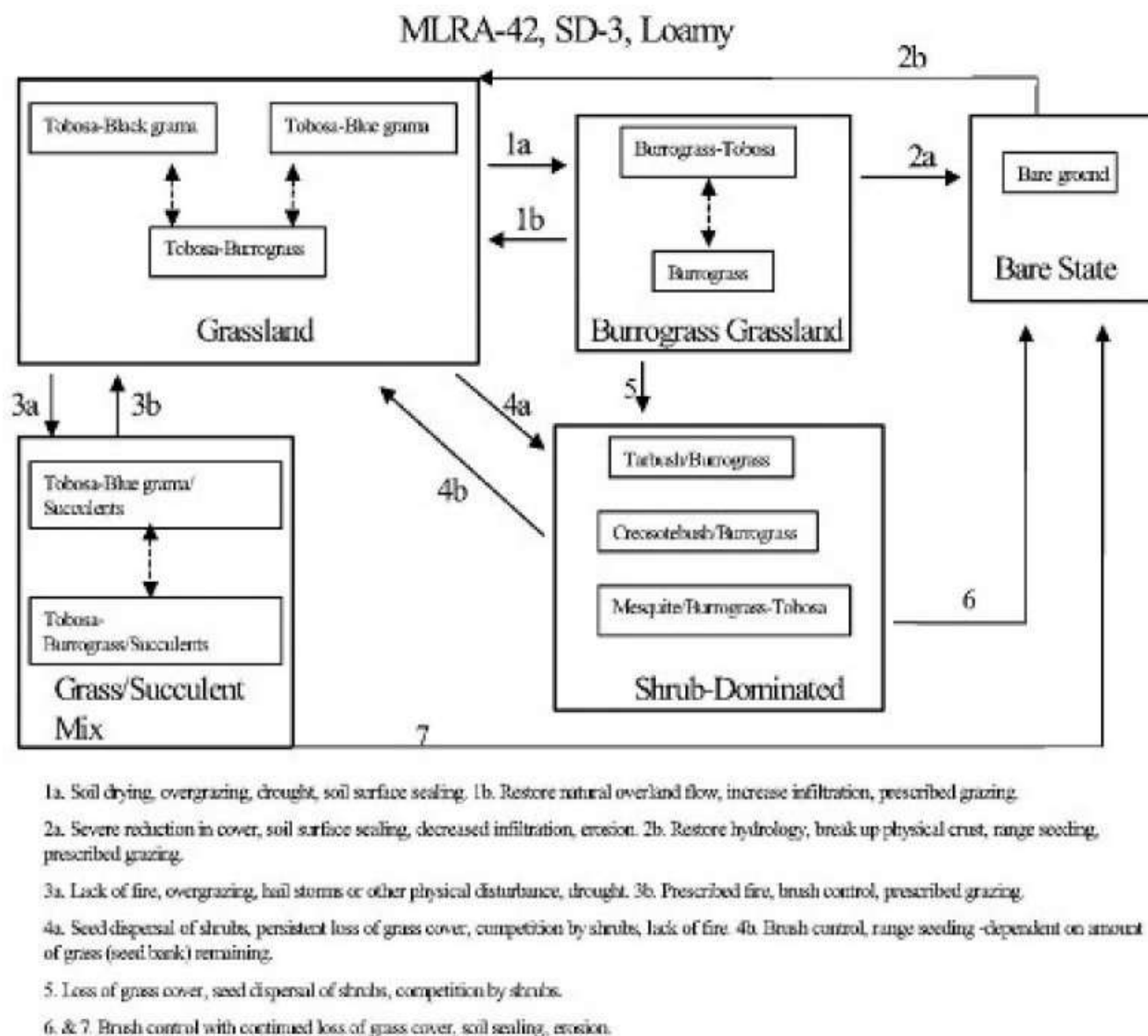


Figure 4.

State 1 Historic Climax Plant Community

Community 1.1 Historic Climax Plant Community

State Containing Historic Climax Plant Community Grassland: The historic plant community has a grassland aspect, dominated by grasses with shrubs and half-shrubs sparse and evenly distributed. Black grama, blue grama, and tobosa are the dominant grass species. There are a variety of perennial forbs and their production varies widely by season and year. Globemallow, verbena, groundsels, croton and filaree are forbs commonly found on this site. Fourwing saltbush and winterfat are two of the more palatable shrubs. The Loamy ecological site encompasses a

wide variety of soils, with surface textures ranging from sandy loams to clay loams. Soil depths range from shallow to very deep and can include sub surface features such as calcic, petrocalcic, and gypsic horizons. These variations cause differences in plant community composition and dynamics. Black grama is found at highest densities on coarser textured sandy loams, with blue grama preferring finer textured loam and silt loam, and tobosa favoring lower landscape positions and loam to clay loam surface textures. Burrograss may often be the dominant grass species on silty soils, perhaps in part due to the seedlings ability to auger into and establish on physically crusted soils. Gypsum influenced soils typically have greater amounts of tobosa, burrograss, and ephedra. There is greater representation of sideoats and vine mesquite within the tobosa-blue grama community. Retrogression under continuous heavy grazing results in a decrease of black grama, blue grama, sideoats grama, plains bristleggrass, bush muhly, cane bluestem, vine mesquite, winterfat, and fourwing saltbush. Species such as burrograss, threeawns, sand dropseed, sand muhly, and broom snakeweed increase under continuous heavy grazing or prolonged periods of drought. Under continued retrogression burrograss can completely dominate the site. Creosotebush, tarbush, and mesquite, can also dominate. Cholla and prickly pear can increase on areas that are disturbed or overgrazed. Diagnosis: Tobosa, black grama, and blue grama are the dominant species. Grass cover is uniformly distributed with few large bare areas. Shrubs are sparse and evenly distributed. Slopes range from level to gently sloping and usually display limited evidence of active rills and gully formation if plant cover remains intact. Litter movement associated with overland flow is limited to smaller size class litter and short distances. Other shrubs include: yucca, mesquite, tarbush, cholla and creosote bush. Other forbs include: desert holly, scorpionweed, bladderpod, flax, nama, fleabane, Indianwheat, Indian blanket flower, groundcherry, deerstongue, and rayless goldenrod.

Table 5. Annual production by plant type

Plant Type	Low (Lb/Acre)	Representative Value (Lb/Acre)	High (Lb/Acre)
Grass/Grasslike	585	833	1080
Forb	39	55	72
Shrub/Vine	26	37	48
Total	650	925	1200

Table 6. Ground cover

Tree foliar cover	0%
Shrub/vine/liana foliar cover	0%
Grass/grasslike foliar cover	15-30%
Forb foliar cover	0%
Non-vascular plants	0%
Biological crusts	0%
Litter	25-30%
Surface fragments >0.25" and <=3"	0%
Surface fragments >3"	0%
Bedrock	0%
Water	0%
Bare ground	40-50%

Figure 6. Plant community growth curve (percent production by month).
 NM2807, R042XC007NM Loamy HCPC. R042XC007NM Loamy HCPC Warm
 Season Plant Community..

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0	0	0	5	10	10	25	30	15	5	0	0

State 2

Burrograss-Grassland

Community 2.1 Burrograss-Grassland

Burrograss-Grassland: Changes in hydrology resulting in decreased available soil moisture, reduces grass cover and increases bare ground. Burrograss is the dominant grass. Tobosa cover is variable and can range from sizeable areas to small patches occupying only depressions or the lowest and wettest positions within the site. Threeawns, ear muhly, sand muhly, and fluffgrass occur at increased densities compared to the grassland state. Shrub densities may increase especially mesquite, creosotebush or tarbush. Retrogression within this state is characterized by a further decrease in grass cover and increased bare ground. Further deterioration of this site can result in the transition to a bare state or becoming shrub dominated. Diagnosis: Burrograss is the dominant species. Grass cover is no longer uniformly distributed, instead tending to be patchy with large areas of bare ground present. Physical crusts are present in bare areas reducing infiltration and suppressing seedling establishment by any grass species other than burrograss. Transition to Burrograss-Grassland (1a): Transitions from grassland to a burrograss-grassland state may occur due to changes in hydrology. Gullies, roads or obstructions that alter natural water flow patterns may cause this transition. Changes in surface hydrology may also occur due to overgrazing or drought. The reduction in grass cover promotes increased soil physical crusts and reduces infiltration. 5 Key indicators of approach to transition: ? Diversion of overland flow resulting in decreased soil moisture. ? Increase in amount of burrograss cover ? Reduction in grass cover and increase in size and frequency of bare patches. ? Formation of physical crusts—indicating reduced infiltration. ? Evidence of litter movement—indicating loss or redistribution of organic matter. Transition back to Grassland (1b) The natural hydrology of the site must be returned. Culverts, turnouts, or rerouting roads may help re-establish natural overland flow, if roads or trails have altered the hydrology. Erosion control structures or shaping and filling gullies may help regain natural flow patterns and establish vegetation if the flow has been channeled. Breaking up physical crusts by soil disturbance may promote infiltration and seedling emergence. Allow natural revegetation to take place. Prescribed grazing will help ensure proper forage utilization and reduce grass loss due to grazing.

State 3 Bare State

Community 3.1 Bare State

Bare State: Extremely low ground cover, soil degradation and erosion characterize this state. Very little vegetation remains. Burrograss is the dominant grass and cover is extremely patchy. Physical soil crusts are extensive. Erosion and resource depletion increase as site degrades. Diagnosis: Very little cover remains. Erosion is evident by soil sealing, water flow patterns, pedestals or terracettes. Rills and gullies may be present and active. Transition to Bare State (2a): Extended drought, continuous heavy grazing, or other disturbance that severely depletes grass cover can effect this transition. As grass cover decreases, sheet flow and erosion increase, and physical soil crusts form, thereby further reducing infiltration. Key indicators of approach to transition: ? Continued reduction in grass cover. ? Increased soil surface sealing. ? Increased erosion. ? Reduced aggregate stability in bare areas. Transition back to Grassland (2b) Restore the hydrology, see (1a). With the extent of grass loss range seeding may be necessary. Utilizing livestock or mechanical means to break up the physical crusts may increase infiltration and aid seedling establishment. Prescribed grazing will help ensure adequate deferment period following seeding, and proper forage utilization once the grass stand is well established. The degree to which this site is capable of recovery depends on the restoration of hydrology, extent of degradation to soil resources, and adequate rainfall necessary to establish grasses.

State 4 Grass/Succulent Mix

Community 4.1 Grass/Succulent Mix

Grass / Succulent Mix: Increased representations of succulents characterize this site. Increased densities of cholla or pricklypear is recognized as a management concern, but their impact on grass production is unclear. Light to

medium cholla or prickly pear infestation doesn't seem to greatly reduce grass production, however it limits access to palatable grasses and interferes with livestock movement and handling. Tobosa and blue grama are the dominant species on this site. Retrogression within this site is characterized by a decrease in blue grama and an increase in succulents, tobosa and burrograss. Diagnosis: Cholla or prickly pear is found at increased densities. Grass cover is variable ranging from uniformly distributed to patchy with frequent areas of bare ground present. Tobosa or blue grama is the dominant grass species. Transition to Grass/Succulent Mix (3a): If fire was historically a part of desert grassland ecosystem and played a role in suppressing seedlings of shrubs and succulents, then fire suppression may favor the increase of succulents.¹ Heavy grazing by livestock or other physical disturbances may help disseminate seed and increase the establishment of succulents. Areas historically overgrazed by sheep are sometimes associated with higher densities of Succulents. Intense hailstorms can spread pricklypear by breaking off joints causing new plants to take root.³ During severe drought perennial grass cover can decline significantly, leaving resources available for use by more drought tolerant succulents. Cholla and pricklypear are both adapted to and favored by drought due to the ability of their shallow, wide spreading root systems to absorb and store water.⁴ Key indicators of approach to transition: ? Decrease or change in distribution of grass cover. ? Increase in amount of succulent seedlings. ? Increased cover of succulents. Transition back to Grassland (3b) Fire is an effective means of controlling cholla and prickly pear if adequate grass cover remains to carry fire.² Cholla greater than two feet tall or pricklypear with a large amount of pads (>15-20) are harder to kill. Chemical control is effective in controlling prickly pear and cholla; apply when growth starts in May. Hand grubbing is also effective if cholla or pricklypear is severed 2-4 inches below ground and care is taken not to let broken joints or pads take root. Stacking and burning piles and grubbing during winter or drought help keeps broken joints and pads from rooting. Prescribed grazing will help ensure proper forage utilization and sustain grass cover.

State 5 Shrub Dominated

Community 5.1 Shrub Dominated

Shrub Dominated: Increased shrub cover characterizes this state. Mesquite, creosotebush, and/or tarbush are the dominant shrub species. Burrograss or tobosa is the dominant grass species. Grass cover is decreased, typically patchy with large bare areas present; however, sometimes grass cover can remain relatively high for extended periods when associated with light to moderate infestations of mesquite. Variations in soil characteristics play a part in determining which shrub species increase. Mesquite is well adapted to a wide range of soil types, but increases more often on deep soils low in carbonates, that have a sandy surface overlying finer textured soils. Tarbush prefers finer textured, calcareous soils, usually in lower positions that receive some extra water. Creosotebush is less tolerant of fine textured soils, preferring sandy, calcareous soils that have some gravel. Creosotebush also does well on soils that are shallow over caliche. Retrogression within this state is characterized by a decrease in tobosa, and an increase in burrograss. As the site continues to degrade shrub cover continues to increase and grass cover is severely reduced. Diagnosis: Mesquite, Creosotebush, and/or tarbush are the dominant shrubs. Blue grama and black grama cover is low or absent. Burrograss or tobosa are the dominant grasses. Typically grass cover is patchy with large interconnected bare areas present. Physical soil crusts are present, especially on silt loam surface soils. Transition to Shrub Dominated (4a): Wildlife and livestock consume and disperse mesquite seeds. Flood events may wash creosote or tarbush seeds off adjacent gravelly sites onto the loamy site and supply adequate moisture for germination. Persistent loss of grass cover due to overgrazing or drought can cause large bare patches, providing competition free areas for shrub seedling establishment. As shrub cover increases, competition for soil resources, especially water, becomes a major factor in further reducing grass cover. Reduction of fire, due to either fire suppression policy or loss of adequate fine fuels may increase the probability of shrub encroachment. Increased soil surface physical crusts and associated decreased infiltration, may prevent the establishment of grass seedlings. Transition to Shrub Dominated (5): The dispersal of creosotebush, tarbush or mesquite seed, combined with loss of grass cover and resource competition by shrubs may cause this transition. Key indicators of approach to transition: ? Decreased grass and litter cover. ? Increased bare patch size. ? Increased physical soil crusts. ? Increased amount of mesquite, creosotebush, or tarbush seedlings. ? Increased shrub cover. Transition back to Grassland (4b) Brush control will be necessary to remove shrubs and eliminate competition for resources necessary for grass establishment or reproduction. Seeding may be necessary on those sites where desired grass species are absent or very limited. Pitting and seeding may increase the chances of successful grass establishment. Prescribed grazing will help ensure adequate time is elapsed before grazing seeded area is allowed and proper forage utilization following seeding establishment. Transition to Bare State (6): If grass cover on the shrub-dominated state is

severely limited and shrubs are removed a bare state may result. This transition will depend on amount of grasses or seed remaining, whether site is seeded, or if seeding is successful. Transition to Bare State (7): Removal of succulents and continued overgrazing or drought may cause loss of remaining grasses and erosion. Soil surface physical crusting may also be an important factor in inhibiting grass seedling establishment

Additional community tables

Table 7. Community 1.1 plant community composition

Group	Common Name	Symbol	Scientific Name	Annual Production (Lb/Acre)	Foliar Cover (%)
Grass/Grasslike					
1	Warm Season			278–324	
	tobosagrass	PLMU3	<i>Pleuraphis mutica</i>	278–324	–
2	Warm Season			9–46	
	burrograss	SCBR2	<i>Scleropogon brevifolius</i>	9–46	–
3	Warm Season			231–278	
	black grama	BOER4	<i>Bouteloua eriopoda</i>	231–278	–
	blue grama	BOGR2	<i>Bouteloua gracilis</i>	231–278	–
4	Warm Season			28–46	
	sideoats grama	BOCU	<i>Bouteloua curtipendula</i>	28–46	–
5	Warm Season			46–93	
	bush muhly	MUPO2	<i>Muhlenbergia porteri</i>	46–93	–
	plains bristlegrass	SEVU2	<i>Setaria vulpiseta</i>	46–93	–
6	Warm Season			9–28	
	Arizona cottontop	DICA8	<i>Digitaria californica</i>	9–28	–
7	Warm Season			46–93	
	threeawn	ARIST	<i>Aristida</i>	46–93	–
	muhly	MUHLE	<i>Muhlenbergia</i>	46–93	–
	sand dropseed	SPCR	<i>Sporobolus cryptandrus</i>	46–93	–
8	Warm Season			28–46	
	Graminoid (grass or grass-like)	2GRAM	<i>Graminoid (grass or grass-like)</i>	28–46	–
Shrub/Vine					
9	Shrub			9–28	
	fourwing saltbush	ATCA2	<i>Atriplex canescens</i>	9–28	–
	jointfir	EPHED	<i>Ephedra</i>	9–28	–
	winterfat	KRLA2	<i>Krascheninnikovia lanata</i>	9–28	–
	cane bluestem	BOBA3	<i>Bothriochloa barbinodis</i>	5–24	–
	Arizona cottontop	DICA8	<i>Digitaria californica</i>	5–24	–
	plains bristlegrass	SEVU2	<i>Setaria vulpiseta</i>	5–24	–
10	Shrub			9–28	
	javelina bush	COER5	<i>Condalia ericoides</i>	9–28	–
	broom snakeweed	GUSA2	<i>Gutierrezia sarothrae</i>	9–28	–
	Grass, annual	2GA	<i>Grass, annual</i>	5–15	–
11	Shrubs			9–28	
	Shrub (>.5m)	2SHRUB	<i>Shrub (>.5m)</i>	9–28	–
Forb					

12	Forb			9–46	
	threadleaf ragwort	SEFLF	<i>Senecio flaccidus var. flaccidus</i>	9–46	–
	globemallow	SPHAE	<i>Sphaeralcea</i>	9–46	–
	verbena	VEPO4	<i>Verbena polystachya</i>	9–46	–
	broom snakeweed	GUSA2	<i>Gutierrezia sarothrae</i>	5–15	–
	pricklypear	OPUNT	<i>Opuntia</i>	5–15	–
13	Forb			9–28	
	croton	CROTO	<i>Croton</i>	9–28	–
	woolly groundsel	PACA15	<i>Packera cana</i>	9–28	–
14	Forb			9–28	
	Goodding's tansyaster	MAPIG2	<i>Machaeranthera pinnatifida ssp. gooddingii var. gooddingii</i>	9–28	–
	woolly paperflower	PSTA	<i>Psilostrophe tagetina</i>	9–28	–
15	Forb			9–28	
	redstem stork's bill	ERCI6	<i>Erodium cicutarium</i>	9–28	–
	Texas stork's bill	ERTE13	<i>Erodium texanum</i>	9–28	–
16	Forb			9–28	
	Forb (herbaceous, not grass nor grass-like)	2FORB	<i>Forb (herbaceous, not grass nor grass-like)</i>	9–28	–

Animal community

This site provides habitats which support a resident animal community that is characterized by pronghorn antelope, black-tailed jackrabbit, black tailed prairie dog, yellow-faced pocket gopher, banner-tailed kangaroo rat, hispid cotton rat, swift fox, burrowing owl, horned lark, mockingbird, meadowlark, mourning dove, scaled quail, Great Plains toad, plains spadefoot toad, prairie rattlesnake and western coachwhip snake.

Hydrological functions

The runoff curve numbers are determined by field investigations using hydraulic cover conditions and hydrologic soil groups.

Hydrologic Interpretations
 Soil Series Hydrologic Group
 Atoka C
 Bigetty B
 Ratliff B
 Reyab B
 Holloman B
 Largo B
 Holloman B
 Bigetty B
 Berino B
 Reagan B
 Reakor B
 Reeves B
 Russler C

Recreational uses

This site offers limited potential for hiking, horseback riding, nature observation and photography. Game bird, antelope and predator hunting are also limited.

Wood products

This site has no potential for wood products

Other products

This site is suitable for grazing by all kinds and classes of livestock, during all seasons of the year. Under retrogression, such plants as black grama, blue grama, sideoats grama, bush muhly, plains bristlegrass, Arizona cottontop, fourwing saltbush and winterfat decrease and there is an increase in burrograss, threeawns, sand dropseed, muhlys, broom snakeweed and javilinabush. Under continued retrogression, burrograss can completely dominate the site. Creosotebush, mesquite, and tarbush can also dominate. Grazing management alone will not improve the site in the above situation. This site is well suited to a system of management that rotates the season of use.

Other information

Guide to Suggested Initial Stocking Rate Acres per Animal Unit Month

Similarity Index Ac/AUM

100 - 76 3.0 – 4.2

75 – 51 4.1 – 5.5

50 – 26 5.3 – 7.0

25 – 0 7.1 +

Inventory data references

Other References:

Data collection for this site was done in conjunction with the progressive soil surveys within the Southern Desertic Basins, Plains and Mountains, Major Land Resource Areas of New Mexico. This site has been mapped and correlated with soils in the following soil surveys. Eddy County Lea County and Chavez County.

Other references

Literature References:

1. Brooks, M.L., AND D.A. Pyke. 2001. Invasive plants and fire in the deserts of North America. Pages 1–14 in K.E.M. Galley and T.P. Wilson (eds.). Proceedings of the Invasive Species Workshop: the Role of Fire in the Control and Spread of Invasive Species.
2. Bunting, S.C., H.A. Wright, and L.F. Neuenschwander. 1980. Long-term effects of fire on cactus in the Southern Mixed Prairie of Texas. J. Range. Manage. 33: 85-88.
3. Laycock, W.A. 1982. Hail as an ecological factor in the increase of prickly pear cactus. p. 359-361. In: J.A. Smith and V.W. Hays (eds.) Proc. XIV Int. Grassland Congr. Westview Press, Boulder, Colo.
4. Vallentine, J.F. 1989. Range Developments and Improvements. 3rd Edition. Academic Press. San Diego, California.
5. U.S. Department of Agriculture, Natural Resources Conservation Service. 2001. Soil Quality Information Sheet. Rangeland Soil Quality—Physical and Biological Soil Crusts. Rangeland Sheet 6, [Online]. Available: <http://www.statlab.iastate.edu/survey/SQL/range.html>

Contributors

David Trujillo

Don Sylvester

Rangeland health reference sheet

Interpreting Indicators of Rangeland Health is a qualitative assessment protocol used to determine ecosystem condition based on benchmark characteristics described in the Reference Sheet. A suite of 17 (or more) indicators are typically considered in an assessment. The ecological site(s) representative of an assessment location must be known prior to applying the protocol and must be verified based on soils and climate. Current plant community cannot be used to identify the ecological site.

Author(s)/participant(s)	
Contact for lead author	
Date	
Approved by	
Approval date	
Composition (Indicators 10 and 12) based on	Annual Production

Indicators

1. Number and extent of rills:

2. Presence of water flow patterns:

3. Number and height of erosional pedestals or terracettes:

4. Bare ground from Ecological Site Description or other studies (rock, litter, lichen, moss, plant canopy are not bare ground):

5. Number of gullies and erosion associated with gullies:

6. Extent of wind scoured, blowouts and/or depositional areas:

7. Amount of litter movement (describe size and distance expected to travel):

8. Soil surface (top few mm) resistance to erosion (stability values are averages - most sites will show a range of values):

9. Soil surface structure and SOM content (include type of structure and A-horizon color and thickness):

10. Effect of community phase composition (relative proportion of different functional groups) and spatial

distribution on infiltration and runoff:

11. **Presence and thickness of compaction layer (usually none; describe soil profile features which may be mistaken for compaction on this site):**
-

12. **Functional/Structural Groups (list in order of descending dominance by above-ground annual-production or live foliar cover using symbols: >>, >, = to indicate much greater than, greater than, and equal to):**

Dominant:

Sub-dominant:

Other:

Additional:

13. **Amount of plant mortality and decadence (include which functional groups are expected to show mortality or decadence):**
-

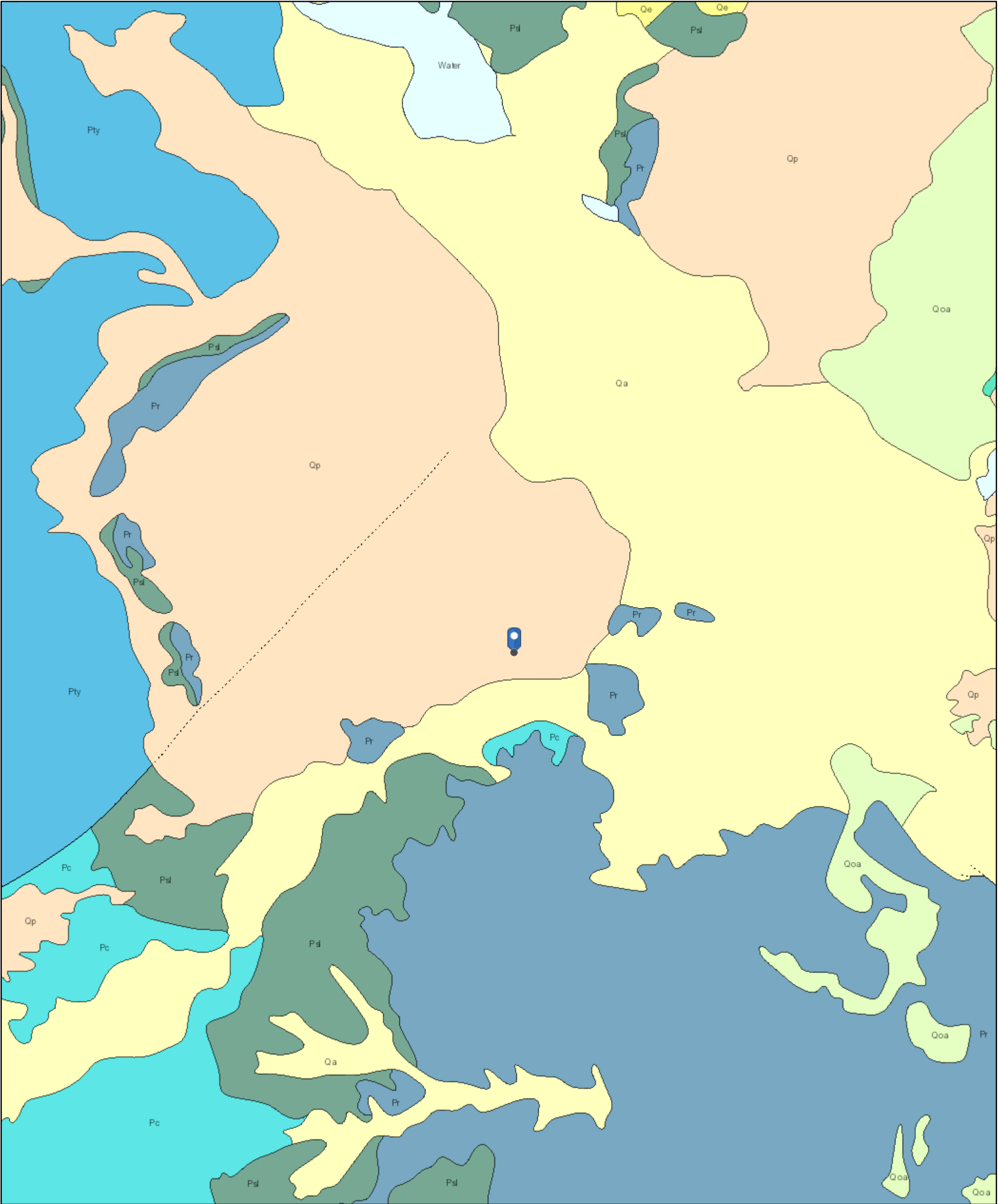
14. **Average percent litter cover (%) and depth (in):**
-

15. **Expected annual annual-production (this is TOTAL above-ground annual-production, not just forage annual-production):**
-

16. **Potential invasive (including noxious) species (native and non-native). List species which BOTH characterize degraded states and have the potential to become a dominant or co-dominant species on the ecological site if their future establishment and growth is not actively controlled by management interventions. Species that become dominant for only one to several years (e.g., short-term response to drought or wildfire) are not invasive plants. Note that unlike other indicators, we are describing what is NOT expected in the reference state for the ecological site:**
-

17. **Perennial plant reproductive capability:**
-

Tony La Russa TB

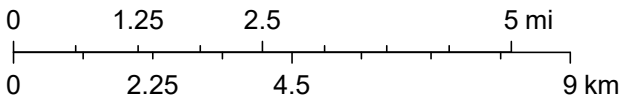


11/2/2022, 2:16:11 PM

Lithologic Units

- Playa—Alluvium and evaporite deposits (Holocene)
- Water—Perennial standing water
- Qa—Alluvium (Holocene to upper Pleistocene)

1:144,448



Esri, NASA, NGA, USGS, USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National Transportation Dataset; USGS Global Ecosystems; U.S. Census

ATTACHMENT 6



Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Tony La Russa TB Confirmatory Notification nAPP2230454572

1 message

Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Tue, Nov 29, 2022 at 7:24 AM

To: "Enviro, OCD, EMNRD" <OCD.Enviro@state.nm.us>, spills@slo.state.nm.us

Cc: Arsenio Jones <arsenio.jones@matadorresources.com>, clinton.talley@matadorresources.com, csnow@matadorresources.com

All,

Please accept this email as 48-hr notification that Vertex Resource Services has scheduled confirmatory sampling to be conducted for the following release:

nAPP2230454572 DOR: 10/31/2022 Site Name: Tony La Russa Tank Battery

This work will be completed on behalf of Matador Production Company

Starting on Thursday, December 1st through Thursday December 8, 2022, at approximately 8:00 a.m., McKitric Wier and Fernando Rodriguez will be on site to conduct continuous confirmatory sampling. He can be reached at 575-361-9639. If you need directions to the site, please do not hesitate to contact him. If you have any questions or concerns regarding this notification, please give me a call at 575-361-9880.

Thank you,

Monica Peppin, A.S.

Project Manager

Vertex Resource Services Inc.

3101 Boyd Drive,

Carlsbad, NM 88220

P 575.725.5001 Ext. 711

C 575.361.9880

F

www.vertex.ca

Confidentiality Notice: This message and any attachments are solely for the intended recipient and may contain confidential or privileged information. If you are not the intended recipient, any disclosure, copying, use, or distribution of the information included in this message and any attachment is prohibited. If you have received this communication in error, please notify us by reply email and immediately and permanently delete this message and any attachments. Thank you. '

ATTACHMENT 7



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

December 02, 2022

Monica Peppin

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX

RE: Tony La Russa TB

OrderNo.: 2211B76

Dear Monica Peppin:

Hall Environmental Analysis Laboratory received 38 sample(s) on 11/19/2022 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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2211B76

Date Reported: 12/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-01 0'

Project: Tony La Russa TB

Collection Date: 11/16/2022 10:00:00 AM

Lab ID: 2211B76-001

Matrix: SOIL

Received Date: 11/19/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	11/29/2022 3:37:47 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/29/2022 3:37:47 AM
Surr: DNOP	92.8	21-129		%Rec	1	11/29/2022 3:37:47 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/23/2022 8:05:00 PM
Surr: BFB	103	37.7-212		%Rec	1	11/23/2022 8:05:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	11/23/2022 8:05:00 PM
Toluene	ND	0.049		mg/Kg	1	11/23/2022 8:05:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	11/23/2022 8:05:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	11/23/2022 8:05:00 PM
Surr: 4-Bromofluorobenzene	112	70-130		%Rec	1	11/23/2022 8:05:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	11/28/2022 4:20:14 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2211B76

Date Reported: 12/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-01 1'

Project: Tony La Russa TB

Collection Date: 11/16/2022 10:10:00 AM

Lab ID: 2211B76-002

Matrix: SOIL

Received Date: 11/19/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/24/2022 9:19:43 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	11/24/2022 9:19:43 AM
Surr: DNOP	78.5	21-129		%Rec	1	11/24/2022 9:19:43 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	11/23/2022 8:24:00 PM
Surr: BFB	104	37.7-212		%Rec	1	11/23/2022 8:24:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.023		mg/Kg	1	11/23/2022 8:24:00 PM
Toluene	ND	0.046		mg/Kg	1	11/23/2022 8:24:00 PM
Ethylbenzene	ND	0.046		mg/Kg	1	11/23/2022 8:24:00 PM
Xylenes, Total	ND	0.092		mg/Kg	1	11/23/2022 8:24:00 PM
Surr: 4-Bromofluorobenzene	113	70-130		%Rec	1	11/23/2022 8:24:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	72	60		mg/Kg	20	11/28/2022 4:57:28 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2211B76

Date Reported: 12/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-01 2'

Project: Tony La Russa TB

Collection Date: 11/16/2022 10:20:00 AM

Lab ID: 2211B76-003

Matrix: SOIL

Received Date: 11/19/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/24/2022 9:30:19 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/24/2022 9:30:19 AM
Surr: DNOP	91.7	21-129		%Rec	1	11/24/2022 9:30:19 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/23/2022 8:44:00 PM
Surr: BFB	102	37.7-212		%Rec	1	11/23/2022 8:44:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	11/23/2022 8:44:00 PM
Toluene	ND	0.049		mg/Kg	1	11/23/2022 8:44:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	11/23/2022 8:44:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	11/23/2022 8:44:00 PM
Surr: 4-Bromofluorobenzene	114	70-130		%Rec	1	11/23/2022 8:44:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	110	60		mg/Kg	20	11/28/2022 9:18:03 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2211B76

Date Reported: 12/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-02 0'

Project: Tony La Russa TB

Collection Date: 11/16/2022 10:30:00 AM

Lab ID: 2211B76-004

Matrix: SOIL

Received Date: 11/19/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	80	13		mg/Kg	1	11/28/2022 8:55:08 PM
Motor Oil Range Organics (MRO)	46	44		mg/Kg	1	11/28/2022 8:55:08 PM
Surr: DNOP	101	21-129		%Rec	1	11/28/2022 8:55:08 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/23/2022 9:04:00 PM
Surr: BFB	101	37.7-212		%Rec	1	11/23/2022 9:04:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	11/23/2022 9:04:00 PM
Toluene	ND	0.048		mg/Kg	1	11/23/2022 9:04:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	11/23/2022 9:04:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	11/23/2022 9:04:00 PM
Surr: 4-Bromofluorobenzene	109	70-130		%Rec	1	11/23/2022 9:04:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	1700	60		mg/Kg	20	11/28/2022 9:30:27 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2211B76

Date Reported: 12/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-02 1'

Project: Tony La Russa TB

Collection Date: 11/16/2022 10:40:00 AM

Lab ID: 2211B76-005

Matrix: SOIL

Received Date: 11/19/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/24/2022 10:02:05 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/24/2022 10:02:05 AM
Surr: DNOP	97.2	21-129		%Rec	1	11/24/2022 10:02:05 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/23/2022 9:43:00 PM
Surr: BFB	97.5	37.7-212		%Rec	1	11/23/2022 9:43:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.023		mg/Kg	1	11/23/2022 9:43:00 PM
Toluene	ND	0.047		mg/Kg	1	11/23/2022 9:43:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	11/23/2022 9:43:00 PM
Xylenes, Total	ND	0.093		mg/Kg	1	11/23/2022 9:43:00 PM
Surr: 4-Bromofluorobenzene	109	70-130		%Rec	1	11/23/2022 9:43:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	130	60		mg/Kg	20	11/28/2022 9:42:52 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2211B76

Date Reported: 12/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-02 2'

Project: Tony La Russa TB

Collection Date: 11/16/2022 10:50:00 AM

Lab ID: 2211B76-006

Matrix: SOIL

Received Date: 11/19/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	11/24/2022 10:12:49 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/24/2022 10:12:49 AM
Surr: DNOP	108	21-129		%Rec	1	11/24/2022 10:12:49 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/23/2022 10:03:00 PM
Surr: BFB	102	37.7-212		%Rec	1	11/23/2022 10:03:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	11/23/2022 10:03:00 PM
Toluene	ND	0.047		mg/Kg	1	11/23/2022 10:03:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	11/23/2022 10:03:00 PM
Xylenes, Total	ND	0.094		mg/Kg	1	11/23/2022 10:03:00 PM
Surr: 4-Bromofluorobenzene	110	70-130		%Rec	1	11/23/2022 10:03:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	11/28/2022 10:20:06 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2211B76

Date Reported: 12/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-03 0'

Project: Tony La Russa TB

Collection Date: 11/16/2022 11:00:00 AM

Lab ID: 2211B76-007

Matrix: SOIL

Received Date: 11/19/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	960	65		mg/Kg	5	11/30/2022 2:19:18 PM
Motor Oil Range Organics (MRO)	510	220		mg/Kg	5	11/30/2022 2:19:18 PM
Surr: DNOP	78.4	21-129		%Rec	5	11/30/2022 2:19:18 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/23/2022 10:22:00 PM
Surr: BFB	97.2	37.7-212		%Rec	1	11/23/2022 10:22:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	11/23/2022 10:22:00 PM
Toluene	ND	0.048		mg/Kg	1	11/23/2022 10:22:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	11/23/2022 10:22:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	11/23/2022 10:22:00 PM
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	1	11/23/2022 10:22:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	10000	600		mg/Kg	200	11/29/2022 10:17:14 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2211B76

Date Reported: 12/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-03 1'

Project: Tony La Russa TB

Collection Date: 11/16/2022 11:10:00 AM

Lab ID: 2211B76-008

Matrix: SOIL

Received Date: 11/19/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/24/2022 10:34:13 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/24/2022 10:34:13 AM
Surr: DNOP	86.6	21-129		%Rec	1	11/24/2022 10:34:13 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/23/2022 10:42:00 PM
Surr: BFB	104	37.7-212		%Rec	1	11/23/2022 10:42:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	11/23/2022 10:42:00 PM
Toluene	ND	0.049		mg/Kg	1	11/23/2022 10:42:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	11/23/2022 10:42:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	11/23/2022 10:42:00 PM
Surr: 4-Bromofluorobenzene	111	70-130		%Rec	1	11/23/2022 10:42:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	130	60		mg/Kg	20	11/28/2022 11:09:46 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2211B76

Date Reported: 12/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-03 2'

Project: Tony La Russa TB

Collection Date: 11/16/2022 11:20:00 AM

Lab ID: 2211B76-009

Matrix: SOIL

Received Date: 11/19/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/24/2022 10:44:53 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/24/2022 10:44:53 AM
Surr: DNOP	113	21-129		%Rec	1	11/24/2022 10:44:53 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/23/2022 11:02:00 PM
Surr: BFB	98.7	37.7-212		%Rec	1	11/23/2022 11:02:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	11/23/2022 11:02:00 PM
Toluene	ND	0.049		mg/Kg	1	11/23/2022 11:02:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	11/23/2022 11:02:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	11/23/2022 11:02:00 PM
Surr: 4-Bromofluorobenzene	112	70-130		%Rec	1	11/23/2022 11:02:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	260	60		mg/Kg	20	11/28/2022 11:47:00 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2211B76

Date Reported: 12/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-04 0'

Project: Tony La Russa TB

Collection Date: 11/16/2022 11:30:00 AM

Lab ID: 2211B76-010

Matrix: SOIL

Received Date: 11/19/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/24/2022 10:55:33 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	11/24/2022 10:55:33 AM
Surr: DNOP	121	21-129		%Rec	1	11/24/2022 10:55:33 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/23/2022 11:21:00 PM
Surr: BFB	98.5	37.7-212		%Rec	1	11/23/2022 11:21:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	11/23/2022 11:21:00 PM
Toluene	ND	0.049		mg/Kg	1	11/23/2022 11:21:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	11/23/2022 11:21:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	11/23/2022 11:21:00 PM
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	1	11/23/2022 11:21:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	290	60		mg/Kg	20	11/28/2022 11:59:25 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2211B76

Date Reported: 12/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-04 1'

Project: Tony La Russa TB

Collection Date: 11/16/2022 11:40:00 AM

Lab ID: 2211B76-011

Matrix: SOIL

Received Date: 11/19/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	11/24/2022 11:06:11 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/24/2022 11:06:11 AM
Surr: DNOP	129	21-129	S	%Rec	1	11/24/2022 11:06:11 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/23/2022 11:41:00 PM
Surr: BFB	99.6	37.7-212		%Rec	1	11/23/2022 11:41:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.023		mg/Kg	1	11/23/2022 11:41:00 PM
Toluene	ND	0.047		mg/Kg	1	11/23/2022 11:41:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	11/23/2022 11:41:00 PM
Xylenes, Total	ND	0.094		mg/Kg	1	11/23/2022 11:41:00 PM
Surr: 4-Bromofluorobenzene	111	70-130		%Rec	1	11/23/2022 11:41:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	180	60		mg/Kg	20	11/29/2022 12:11:50 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2211B76

Date Reported: 12/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-04 2'

Project: Tony La Russa TB

Collection Date: 11/16/2022 11:50:00 AM

Lab ID: 2211B76-012

Matrix: SOIL

Received Date: 11/19/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	11/24/2022 11:16:51 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/24/2022 11:16:51 AM
Surr: DNOP	124	21-129		%Rec	1	11/24/2022 11:16:51 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/24/2022 12:01:00 AM
Surr: BFB	96.4	37.7-212		%Rec	1	11/24/2022 12:01:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	11/24/2022 12:01:00 AM
Toluene	ND	0.049		mg/Kg	1	11/24/2022 12:01:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	11/24/2022 12:01:00 AM
Xylenes, Total	ND	0.098		mg/Kg	1	11/24/2022 12:01:00 AM
Surr: 4-Bromofluorobenzene	110	70-130		%Rec	1	11/24/2022 12:01:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	110	59		mg/Kg	20	11/29/2022 12:49:03 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2211B76

Date Reported: 12/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-05 0'

Project: Tony La Russa TB

Collection Date: 11/16/2022 12:00:00 PM

Lab ID: 2211B76-013

Matrix: SOIL

Received Date: 11/19/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	530	13		mg/Kg	1	11/28/2022 9:42:44 PM
Motor Oil Range Organics (MRO)	280	43		mg/Kg	1	11/28/2022 9:42:44 PM
Surr: DNOP	124	21-129		%Rec	1	11/28/2022 9:42:44 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/24/2022 12:20:00 AM
Surr: BFB	104	37.7-212		%Rec	1	11/24/2022 12:20:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	11/24/2022 12:20:00 AM
Toluene	ND	0.048		mg/Kg	1	11/24/2022 12:20:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	11/24/2022 12:20:00 AM
Xylenes, Total	ND	0.095		mg/Kg	1	11/24/2022 12:20:00 AM
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	1	11/24/2022 12:20:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	2300	60		mg/Kg	20	11/29/2022 1:01:28 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2211B76

Date Reported: 12/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-05 1'

Project: Tony La Russa TB

Collection Date: 11/16/2022 12:10:00 PM

Lab ID: 2211B76-014

Matrix: SOIL

Received Date: 11/19/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	11/24/2022 11:38:03 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/24/2022 11:38:03 AM
Surr: DNOP	118	21-129		%Rec	1	11/24/2022 11:38:03 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/24/2022 12:40:00 AM
Surr: BFB	99.6	37.7-212		%Rec	1	11/24/2022 12:40:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	11/24/2022 12:40:00 AM
Toluene	ND	0.048		mg/Kg	1	11/24/2022 12:40:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	11/24/2022 12:40:00 AM
Xylenes, Total	ND	0.096		mg/Kg	1	11/24/2022 12:40:00 AM
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	1	11/24/2022 12:40:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	350	60		mg/Kg	20	11/29/2022 1:13:52 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2211B76

Date Reported: 12/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-05 2'

Project: Tony La Russa TB

Collection Date: 11/16/2022 12:20:00 PM

Lab ID: 2211B76-015

Matrix: SOIL

Received Date: 11/19/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	11/24/2022 11:48:39 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/24/2022 11:48:39 AM
Surr: DNOP	102	21-129		%Rec	1	11/24/2022 11:48:39 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	11/24/2022 1:19:00 AM
Surr: BFB	98.3	37.7-212		%Rec	1	11/24/2022 1:19:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.023		mg/Kg	1	11/24/2022 1:19:00 AM
Toluene	ND	0.046		mg/Kg	1	11/24/2022 1:19:00 AM
Ethylbenzene	ND	0.046		mg/Kg	1	11/24/2022 1:19:00 AM
Xylenes, Total	ND	0.093		mg/Kg	1	11/24/2022 1:19:00 AM
Surr: 4-Bromofluorobenzene	111	70-130		%Rec	1	11/24/2022 1:19:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	170	60		mg/Kg	20	11/28/2022 5:39:07 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2211B76

Date Reported: 12/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-06 0'

Project: Tony La Russa TB

Collection Date: 11/16/2022 12:30:00 PM

Lab ID: 2211B76-016

Matrix: SOIL

Received Date: 11/19/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	150	14		mg/Kg	1	11/28/2022 1:32:17 PM
Motor Oil Range Organics (MRO)	71	48		mg/Kg	1	11/28/2022 1:32:17 PM
Surr: DNOP	81.9	21-129		%Rec	1	11/28/2022 1:32:17 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/28/2022 11:55:00 AM
Surr: BFB	101	37.7-212		%Rec	1	11/28/2022 11:55:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	11/28/2022 11:55:00 AM
Toluene	ND	0.048		mg/Kg	1	11/28/2022 11:55:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	11/28/2022 11:55:00 AM
Xylenes, Total	ND	0.096		mg/Kg	1	11/28/2022 11:55:00 AM
Surr: 4-Bromofluorobenzene	123	70-130		%Rec	1	11/28/2022 11:55:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	4500	150		mg/Kg	50	11/29/2022 10:29:38 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2211B76

Date Reported: 12/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-06 1'

Project: Tony La Russa TB

Collection Date: 11/16/2022 12:40:00 PM

Lab ID: 2211B76-017

Matrix: SOIL

Received Date: 11/19/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/28/2022 2:12:14 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/28/2022 2:12:14 PM
Surr: DNOP	101	21-129		%Rec	1	11/28/2022 2:12:14 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/28/2022 12:55:00 PM
Surr: BFB	100	37.7-212		%Rec	1	11/28/2022 12:55:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	11/28/2022 12:55:00 PM
Toluene	ND	0.050		mg/Kg	1	11/28/2022 12:55:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	11/28/2022 12:55:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	11/28/2022 12:55:00 PM
Surr: 4-Bromofluorobenzene	122	70-130		%Rec	1	11/28/2022 12:55:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	ND	60		mg/Kg	20	11/28/2022 6:03:55 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2211B76

Date Reported: 12/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-06 2'

Project: Tony La Russa TB

Collection Date: 11/16/2022 12:50:00 PM

Lab ID: 2211B76-018

Matrix: SOIL

Received Date: 11/19/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/28/2022 2:25:40 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/28/2022 2:25:40 PM
Surr: DNOP	103	21-129		%Rec	1	11/28/2022 2:25:40 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/28/2022 1:54:00 PM
Surr: BFB	95.3	37.7-212		%Rec	1	11/28/2022 1:54:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	11/28/2022 1:54:00 PM
Toluene	ND	0.048		mg/Kg	1	11/28/2022 1:54:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	11/28/2022 1:54:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	11/28/2022 1:54:00 PM
Surr: 4-Bromofluorobenzene	119	70-130		%Rec	1	11/28/2022 1:54:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	ND	60		mg/Kg	20	11/28/2022 6:16:19 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2211B76

Date Reported: 12/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-08 0'

Project: Tony La Russa TB

Collection Date: 11/16/2022 1:00:00 PM

Lab ID: 2211B76-019

Matrix: SOIL

Received Date: 11/19/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	180	14		mg/Kg	1	11/28/2022 2:39:43 PM
Motor Oil Range Organics (MRO)	97	48		mg/Kg	1	11/28/2022 2:39:43 PM
Surr: DNOP	95.9	21-129		%Rec	1	11/28/2022 2:39:43 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/28/2022 2:14:00 PM
Surr: BFB	92.8	37.7-212		%Rec	1	11/28/2022 2:14:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	11/28/2022 2:14:00 PM
Toluene	ND	0.049		mg/Kg	1	11/28/2022 2:14:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	11/28/2022 2:14:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	11/28/2022 2:14:00 PM
Surr: 4-Bromofluorobenzene	116	70-130		%Rec	1	11/28/2022 2:14:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	860	60		mg/Kg	20	11/28/2022 6:28:44 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2211B76

Date Reported: 12/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-08 1'

Project: Tony La Russa TB

Collection Date: 11/16/2022 1:10:00 PM

Lab ID: 2211B76-020

Matrix: SOIL

Received Date: 11/19/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/28/2022 2:53:00 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/28/2022 2:53:00 PM
Surr: DNOP	101	21-129		%Rec	1	11/28/2022 2:53:00 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/28/2022 2:33:00 PM
Surr: BFB	92.5	37.7-212		%Rec	1	11/28/2022 2:33:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	11/28/2022 2:33:00 PM
Toluene	ND	0.048		mg/Kg	1	11/28/2022 2:33:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	11/28/2022 2:33:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	11/28/2022 2:33:00 PM
Surr: 4-Bromofluorobenzene	117	70-130		%Rec	1	11/28/2022 2:33:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	79	60		mg/Kg	20	11/28/2022 7:30:44 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2211B76

Date Reported: 12/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-08 2'

Project: Tony La Russa TB

Collection Date: 11/16/2022 1:20:00 PM

Lab ID: 2211B76-021

Matrix: SOIL

Received Date: 11/19/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	11/28/2022 3:06:29 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/28/2022 3:06:29 PM
Surr: DNOP	99.7	21-129		%Rec	1	11/28/2022 3:06:29 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/28/2022 2:53:00 PM
Surr: BFB	90.9	37.7-212		%Rec	1	11/28/2022 2:53:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	11/28/2022 2:53:00 PM
Toluene	ND	0.048		mg/Kg	1	11/28/2022 2:53:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	11/28/2022 2:53:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	11/28/2022 2:53:00 PM
Surr: 4-Bromofluorobenzene	115	70-130		%Rec	1	11/28/2022 2:53:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	120	60		mg/Kg	20	11/28/2022 8:07:58 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2211B76

Date Reported: 12/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-07 0'

Project: Tony La Russa TB

Collection Date: 11/17/2022 10:00:00 AM

Lab ID: 2211B76-022

Matrix: SOIL

Received Date: 11/19/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	880	13		mg/Kg	1	11/28/2022 3:19:53 PM
Motor Oil Range Organics (MRO)	340	44		mg/Kg	1	11/28/2022 3:19:53 PM
Surr: DNOP	92.9	21-129		%Rec	1	11/28/2022 3:19:53 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	7.9	4.8		mg/Kg	1	11/28/2022 3:13:00 PM
Surr: BFB	157	37.7-212		%Rec	1	11/28/2022 3:13:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	11/30/2022 4:08:00 PM
Toluene	ND	0.048		mg/Kg	1	11/30/2022 4:08:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	11/30/2022 4:08:00 PM
Xylenes, Total	0.10	0.095		mg/Kg	1	11/30/2022 4:08:00 PM
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	11/30/2022 4:08:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	4900	150		mg/Kg	50	11/29/2022 10:42:02 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2211B76

Date Reported: 12/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-07 1'

Project: Tony La Russa TB

Collection Date: 11/17/2022 10:10:00 AM

Lab ID: 2211B76-023

Matrix: SOIL

Received Date: 11/19/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	11/28/2022 3:33:19 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/28/2022 3:33:19 PM
Surr: DNOP	103	21-129		%Rec	1	11/28/2022 3:33:19 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/28/2022 3:33:00 PM
Surr: BFB	99.7	37.7-212		%Rec	1	11/28/2022 3:33:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	11/28/2022 3:33:00 PM
Toluene	ND	0.049		mg/Kg	1	11/28/2022 3:33:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	11/28/2022 3:33:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	11/28/2022 3:33:00 PM
Surr: 4-Bromofluorobenzene	122	70-130		%Rec	1	11/28/2022 3:33:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	ND	60		mg/Kg	20	11/28/2022 8:32:47 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2211B76

Date Reported: 12/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-07 2'

Project: Tony La Russa TB

Collection Date: 11/17/2022 10:20:00 AM

Lab ID: 2211B76-024

Matrix: SOIL

Received Date: 11/19/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/28/2022 4:00:09 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	11/28/2022 4:00:09 PM
Surr: DNOP	98.1	21-129		%Rec	1	11/28/2022 4:00:09 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/28/2022 3:53:00 PM
Surr: BFB	97.0	37.7-212		%Rec	1	11/28/2022 3:53:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	11/28/2022 3:53:00 PM
Toluene	ND	0.050		mg/Kg	1	11/28/2022 3:53:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	11/28/2022 3:53:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	11/28/2022 3:53:00 PM
Surr: 4-Bromofluorobenzene	118	70-130		%Rec	1	11/28/2022 3:53:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	60	60		mg/Kg	20	11/28/2022 8:45:11 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2211B76

Date Reported: 12/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-09 0'

Project: Tony La Russa TB

Collection Date: 11/17/2022 10:30:00 AM

Lab ID: 2211B76-025

Matrix: SOIL

Received Date: 11/19/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	19	15		mg/Kg	1	11/28/2022 4:13:33 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/28/2022 4:13:33 PM
Surr: DNOP	91.3	21-129		%Rec	1	11/28/2022 4:13:33 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/28/2022 4:13:00 PM
Surr: BFB	94.6	37.7-212		%Rec	1	11/28/2022 4:13:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	11/28/2022 4:13:00 PM
Toluene	ND	0.048		mg/Kg	1	11/28/2022 4:13:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	11/28/2022 4:13:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	11/28/2022 4:13:00 PM
Surr: 4-Bromofluorobenzene	117	70-130		%Rec	1	11/28/2022 4:13:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	190	60		mg/Kg	20	11/28/2022 8:57:35 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2211B76

Date Reported: 12/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-09 1'

Project: Tony La Russa TB

Collection Date: 11/17/2022 10:40:00 AM

Lab ID: 2211B76-026

Matrix: SOIL

Received Date: 11/19/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	11/28/2022 4:27:00 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/28/2022 4:27:00 PM
Surr: DNOP	89.2	21-129		%Rec	1	11/28/2022 4:27:00 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/28/2022 4:52:00 PM
Surr: BFB	95.2	37.7-212		%Rec	1	11/28/2022 4:52:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	11/28/2022 4:52:00 PM
Toluene	ND	0.048		mg/Kg	1	11/28/2022 4:52:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	11/28/2022 4:52:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	11/28/2022 4:52:00 PM
Surr: 4-Bromofluorobenzene	119	70-130		%Rec	1	11/28/2022 4:52:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	78	60		mg/Kg	20	11/28/2022 9:34:48 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2211B76

Date Reported: 12/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-09 2'

Project: Tony La Russa TB

Collection Date: 11/17/2022 10:50:00 AM

Lab ID: 2211B76-027

Matrix: SOIL

Received Date: 11/19/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	11/28/2022 4:40:26 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/28/2022 4:40:26 PM
Surr: DNOP	90.9	21-129		%Rec	1	11/28/2022 4:40:26 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/28/2022 5:12:00 PM
Surr: BFB	92.2	37.7-212		%Rec	1	11/28/2022 5:12:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	11/28/2022 5:12:00 PM
Toluene	ND	0.048		mg/Kg	1	11/28/2022 5:12:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	11/28/2022 5:12:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	11/28/2022 5:12:00 PM
Surr: 4-Bromofluorobenzene	116	70-130		%Rec	1	11/28/2022 5:12:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	180	60		mg/Kg	20	11/28/2022 9:47:13 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2211B76

Date Reported: 12/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-10 0'

Project: Tony La Russa TB

Collection Date: 11/17/2022 11:00:00 AM

Lab ID: 2211B76-028

Matrix: SOIL

Received Date: 11/19/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	11/28/2022 4:54:12 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/28/2022 4:54:12 PM
Surr: DNOP	86.8	21-129		%Rec	1	11/28/2022 4:54:12 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/28/2022 5:31:00 PM
Surr: BFB	89.5	37.7-212		%Rec	1	11/28/2022 5:31:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	11/28/2022 5:31:00 PM
Toluene	ND	0.049		mg/Kg	1	11/28/2022 5:31:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	11/28/2022 5:31:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	11/28/2022 5:31:00 PM
Surr: 4-Bromofluorobenzene	115	70-130		%Rec	1	11/28/2022 5:31:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	ND	60		mg/Kg	20	11/28/2022 9:59:37 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2211B76

Date Reported: 12/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-10 1'

Project: Tony La Russa TB

Collection Date: 11/17/2022 11:10:00 AM

Lab ID: 2211B76-029

Matrix: SOIL

Received Date: 11/19/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	11/28/2022 5:07:36 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/28/2022 5:07:36 PM
Surr: DNOP	95.8	21-129		%Rec	1	11/28/2022 5:07:36 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/28/2022 5:51:00 PM
Surr: BFB	92.7	37.7-212		%Rec	1	11/28/2022 5:51:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	11/28/2022 5:51:00 PM
Toluene	ND	0.048		mg/Kg	1	11/28/2022 5:51:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	11/28/2022 5:51:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	11/28/2022 5:51:00 PM
Surr: 4-Bromofluorobenzene	116	70-130		%Rec	1	11/28/2022 5:51:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	61	59		mg/Kg	20	11/28/2022 10:12:01 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2211B76

Date Reported: 12/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-10 2'

Project: Tony La Russa TB

Collection Date: 11/17/2022 11:20:00 AM

Lab ID: 2211B76-030

Matrix: SOIL

Received Date: 11/19/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	11/28/2022 5:20:54 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/28/2022 5:20:54 PM
Surr: DNOP	94.4	21-129		%Rec	1	11/28/2022 5:20:54 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/28/2022 6:11:00 PM
Surr: BFB	91.7	37.7-212		%Rec	1	11/28/2022 6:11:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	11/28/2022 6:11:00 PM
Toluene	ND	0.049		mg/Kg	1	11/28/2022 6:11:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	11/28/2022 6:11:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	11/28/2022 6:11:00 PM
Surr: 4-Bromofluorobenzene	118	70-130		%Rec	1	11/28/2022 6:11:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	230	60		mg/Kg	20	11/28/2022 10:24:25 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2211B76

Date Reported: 12/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-11 0'

Project: Tony La Russa TB

Collection Date: 11/17/2022 11:30:00 AM

Lab ID: 2211B76-031

Matrix: SOIL

Received Date: 11/19/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	11/28/2022 5:34:14 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/28/2022 5:34:14 PM
Surr: DNOP	96.3	21-129		%Rec	1	11/28/2022 5:34:14 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/28/2022 6:31:00 PM
Surr: BFB	95.0	37.7-212		%Rec	1	11/28/2022 6:31:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	11/28/2022 6:31:00 PM
Toluene	ND	0.050		mg/Kg	1	11/28/2022 6:31:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	11/28/2022 6:31:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	11/28/2022 6:31:00 PM
Surr: 4-Bromofluorobenzene	117	70-130		%Rec	1	11/28/2022 6:31:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	96	60		mg/Kg	20	11/28/2022 10:36:50 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2211B76

Date Reported: 12/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-11 1'

Project: Tony La Russa TB

Collection Date: 11/17/2022 11:40:00 AM

Lab ID: 2211B76-032

Matrix: SOIL

Received Date: 11/19/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	11/28/2022 5:47:24 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/28/2022 5:47:24 PM
Surr: DNOP	96.5	21-129		%Rec	1	11/28/2022 5:47:24 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/28/2022 6:51:00 PM
Surr: BFB	97.4	37.7-212		%Rec	1	11/28/2022 6:51:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	11/28/2022 6:51:00 PM
Toluene	ND	0.047		mg/Kg	1	11/28/2022 6:51:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	11/28/2022 6:51:00 PM
Xylenes, Total	ND	0.094		mg/Kg	1	11/28/2022 6:51:00 PM
Surr: 4-Bromofluorobenzene	121	70-130		%Rec	1	11/28/2022 6:51:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	350	60		mg/Kg	20	11/28/2022 10:49:14 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2211B76

Date Reported: 12/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-11 2'

Project: Tony La Russa TB

Collection Date: 11/17/2022 11:50:00 AM

Lab ID: 2211B76-033

Matrix: SOIL

Received Date: 11/19/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	11/28/2022 6:00:34 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/28/2022 6:00:34 PM
Surr: DNOP	96.7	21-129		%Rec	1	11/28/2022 6:00:34 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/28/2022 7:11:00 PM
Surr: BFB	95.3	37.7-212		%Rec	1	11/28/2022 7:11:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	11/28/2022 7:11:00 PM
Toluene	ND	0.048		mg/Kg	1	11/28/2022 7:11:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	11/28/2022 7:11:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	11/28/2022 7:11:00 PM
Surr: 4-Bromofluorobenzene	117	70-130		%Rec	1	11/28/2022 7:11:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	340	60		mg/Kg	20	11/28/2022 11:01:38 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2211B76

Date Reported: 12/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-12 0'

Project: Tony La Russa TB

Collection Date: 11/17/2022 12:00:00 PM

Lab ID: 2211B76-034

Matrix: SOIL

Received Date: 11/19/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	20	15		mg/Kg	1	11/28/2022 6:13:37 PM
Motor Oil Range Organics (MRO)	57	48		mg/Kg	1	11/28/2022 6:13:37 PM
Surr: DNOP	94.0	21-129		%Rec	1	11/28/2022 6:13:37 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/28/2022 7:30:00 PM
Surr: BFB	91.8	37.7-212		%Rec	1	11/28/2022 7:30:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	11/28/2022 7:30:00 PM
Toluene	ND	0.047		mg/Kg	1	11/28/2022 7:30:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	11/28/2022 7:30:00 PM
Xylenes, Total	ND	0.095		mg/Kg	1	11/28/2022 7:30:00 PM
Surr: 4-Bromofluorobenzene	112	70-130		%Rec	1	11/28/2022 7:30:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	ND	60		mg/Kg	20	11/28/2022 11:14:02 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2211B76

Date Reported: 12/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-12 1'

Project: Tony La Russa TB

Collection Date: 11/17/2022 12:10:00 PM

Lab ID: 2211B76-035

Matrix: SOIL

Received Date: 11/19/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	11/28/2022 6:26:31 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/28/2022 6:26:31 PM
Surr: DNOP	90.8	21-129		%Rec	1	11/28/2022 6:26:31 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/28/2022 7:50:00 PM
Surr: BFB	90.5	37.7-212		%Rec	1	11/28/2022 7:50:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	11/28/2022 7:50:00 PM
Toluene	ND	0.048		mg/Kg	1	11/28/2022 7:50:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	11/28/2022 7:50:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	11/28/2022 7:50:00 PM
Surr: 4-Bromofluorobenzene	116	70-130		%Rec	1	11/28/2022 7:50:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	65	60		mg/Kg	20	11/29/2022 11:44:04 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2211B76

Date Reported: 12/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-12 2'

Project: Tony La Russa TB

Collection Date: 11/17/2022 12:20:00 PM

Lab ID: 2211B76-036

Matrix: SOIL

Received Date: 11/19/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	11/29/2022 10:42:03 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/29/2022 10:42:03 AM
Surr: DNOP	96.4	21-129		%Rec	1	11/29/2022 10:42:03 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	11/28/2022 7:10:55 PM
Surr: BFB	93.0	37.7-212		%Rec	5	11/28/2022 7:10:55 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.12		mg/Kg	5	11/28/2022 7:10:55 PM
Toluene	ND	0.25		mg/Kg	5	11/28/2022 7:10:55 PM
Ethylbenzene	ND	0.25		mg/Kg	5	11/28/2022 7:10:55 PM
Xylenes, Total	ND	0.50		mg/Kg	5	11/28/2022 7:10:55 PM
Surr: 4-Bromofluorobenzene	88.7	70-130		%Rec	5	11/28/2022 7:10:55 PM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	110	59		mg/Kg	20	11/29/2022 12:46:06 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2211B76

02-Dec-22

Client: Vertex Resources Services, Inc.**Project:** Tony La Russa TB

Sample ID: MB-71726	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 71726	RunNo: 92863								
Prep Date: 11/28/2022	Analysis Date: 11/28/2022	SeqNo: 3342984 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-71726	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 71726	RunNo: 92863								
Prep Date: 11/28/2022	Analysis Date: 11/28/2022	SeqNo: 3342985 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.3	90	110			

Sample ID: MB-71708	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 71708	RunNo: 92840								
Prep Date: 11/28/2022	Analysis Date: 11/28/2022	SeqNo: 3343171 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-71708	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 71708	RunNo: 92840								
Prep Date: 11/28/2022	Analysis Date: 11/28/2022	SeqNo: 3343172 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.0	90	110			

Sample ID: MB-71725	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 71725	RunNo: 92840								
Prep Date: 11/28/2022	Analysis Date: 11/28/2022	SeqNo: 3343207 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-71725	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 71725	RunNo: 92840								
Prep Date: 11/28/2022	Analysis Date: 11/28/2022	SeqNo: 3343208 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.5	90	110			

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 Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2211B76

02-Dec-22

Client: Vertex Resources Services, Inc.**Project:** Tony La Russa TB

Sample ID: MB-71740	SampType: MBLK	TestCode: EPA Method 300.0: Anions
Client ID: PBS	Batch ID: 71740	RunNo: 92899
Prep Date: 11/29/2022	Analysis Date: 11/29/2022	SeqNo: 3344980 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND	1.5

Sample ID: LCS-71740	SampType: LCS	TestCode: EPA Method 300.0: Anions
Client ID: LCSS	Batch ID: 71740	RunNo: 92899
Prep Date: 11/29/2022	Analysis Date: 11/29/2022	SeqNo: 3344981 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	14	1.5 15.00 0 91.0 90 110

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 Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2211B76

02-Dec-22

Client: Vertex Resources Services, Inc.**Project:** Tony La Russa TB

Sample ID: LCS-71674	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 71674	RunNo: 92807								
Prep Date: 11/22/2022	Analysis Date: 11/24/2022	SeqNo: 3342147 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	15	50.00	0	89.9	64.4	127			
Surr: DNOP	5.7		5.000		113	21	129			

Sample ID: MB-71674	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 71674	RunNo: 92807								
Prep Date: 11/22/2022	Analysis Date: 11/24/2022	SeqNo: 3342150 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	12		10.00		123	21	129			

Sample ID: MB-71703	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 71703	RunNo: 92842								
Prep Date: 11/23/2022	Analysis Date: 11/28/2022	SeqNo: 3343058 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.0		10.00		90.0	21	129			

Sample ID: LCS-71703	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 71703	RunNo: 92842								
Prep Date: 11/23/2022	Analysis Date: 11/28/2022	SeqNo: 3343059 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	15	50.00	0	89.4	64.4	127			
Surr: DNOP	4.7		5.000		93.3	21	129			

Sample ID: 2211B76-016AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BH22-06 0'	Batch ID: 71703	RunNo: 92842								
Prep Date: 11/23/2022	Analysis Date: 11/28/2022	SeqNo: 3343061 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	170	15	50.00	148.5	39.2	36.1	154			
Surr: DNOP	3.5		5.000		70.0	21	129			

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 Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2211B76

02-Dec-22

Client: Vertex Resources Services, Inc.**Project:** Tony La Russa TB

Sample ID: 2211B76-016AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BH22-06 0'	Batch ID: 71703	RunNo: 92842								
Prep Date: 11/23/2022	Analysis Date: 11/28/2022	SeqNo: 3343062 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	200	15	48.36	148.5	99.4	36.1	154	15.6	33.9	
Surr: DNOP	3.4		4.836		70.4	21	129	0	0	

Sample ID: MB-71684	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 71684	RunNo: 92841								
Prep Date: 11/23/2022	Analysis Date: 11/28/2022	SeqNo: 3344669 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.7		10.00		87.1	21	129			

Sample ID: LCS-71684	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 71684	RunNo: 92841								
Prep Date: 11/23/2022	Analysis Date: 11/28/2022	SeqNo: 3344670 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	15	50.00	0	91.0	64.4	127			
Surr: DNOP	4.4		5.000		88.7	21	129			

Sample ID: MB-71704	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 71704	RunNo: 92913								
Prep Date: 11/28/2022	Analysis Date: 11/29/2022	SeqNo: 3345472 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.2		10.00		92.5	21	129			

Sample ID: LCS-71704	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 71704	RunNo: 92913								
Prep Date: 11/28/2022	Analysis Date: 11/29/2022	SeqNo: 3345473 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	15	50.00	0	88.9	64.4	127			
Surr: DNOP	4.2		5.000		84.2	21	129			

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 Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2211B76

02-Dec-22

Client: Vertex Resources Services, Inc.**Project:** Tony La Russa TB

Sample ID: lcs-71662	SampType: LCS				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: LCSS	Batch ID: 71662				RunNo: 92821					
Prep Date: 11/22/2022	Analysis Date: 11/23/2022				SeqNo: 3341403	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	97.2	72.3	137			
Surr: BFB	2200		1000		224	37.7	212			S

Sample ID: mb-71662	SampType: MBLK				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS	Batch ID: 71662				RunNo: 92821					
Prep Date: 11/22/2022	Analysis Date: 11/23/2022				SeqNo: 3341404	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		106	37.7	212			

Sample ID: mb-71675	SampType: MBLK				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS	Batch ID: 71675				RunNo: 92828					
Prep Date: 11/22/2022	Analysis Date: 11/28/2022				SeqNo: 3342324	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	930		1000		93.3	37.7	212			

Sample ID: lcs-71675	SampType: LCS				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: LCSS	Batch ID: 71675				RunNo: 92828					
Prep Date: 11/22/2022	Analysis Date: 11/28/2022				SeqNo: 3342325	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	104	72.3	137			
Surr: BFB	2000		1000		197	37.7	212			

Sample ID: 2211b76-036ams	SampType: MS				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: BH22-12 2'	Batch ID: 71675				RunNo: 92828					
Prep Date: 11/22/2022	Analysis Date: 11/28/2022				SeqNo: 3342327	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	20	24.68	0	90.2	70	130			
Surr: BFB	5600		4936		114	37.7	212			

Sample ID: 2211b76-036amsd	SampType: MSD				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: BH22-12 2'	Batch ID: 71675				RunNo: 92828					
Prep Date: 11/22/2022	Analysis Date: 11/28/2022				SeqNo: 3342328	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

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 Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2211B76

02-Dec-22

Client: Vertex Resources Services, Inc.**Project:** Tony La Russa TB

Sample ID: 2211b76-036amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BH22-12 2'	Batch ID: 71675	RunNo: 92828								
Prep Date: 11/22/2022	Analysis Date: 11/28/2022	SeqNo: 3342328 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	20	24.58	0	92.4	70	130	2.02	20	
Surr: BFB	5500		4916		111	37.7	212	0	0	

Sample ID: lcs-71667	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 71667	RunNo: 92873								
Prep Date: 11/22/2022	Analysis Date: 11/28/2022	SeqNo: 3343496 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	98.4	72.3	137			
Surr: BFB	2000		1000		205	37.7	212			

Sample ID: mb-71667	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 71667	RunNo: 92873								
Prep Date: 11/22/2022	Analysis Date: 11/28/2022	SeqNo: 3343497 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		103	37.7	212			

Sample ID: 2211B76-016ams	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BH22-06 0'	Batch ID: 71667	RunNo: 92873								
Prep Date: 11/22/2022	Analysis Date: 11/28/2022	SeqNo: 3343499 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.9	24.37	0	97.0	70	130			
Surr: BFB	2100		974.7		220	37.7	212			S

Sample ID: 2211B76-016amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BH22-06 0'	Batch ID: 71667	RunNo: 92873								
Prep Date: 11/22/2022	Analysis Date: 11/28/2022	SeqNo: 3343500 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.9	24.32	0	91.5	70	130	5.97	20	
Surr: BFB	2100		972.8		221	37.7	212	0	0	S

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 Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2211B76

02-Dec-22

Client: Vertex Resources Services, Inc.**Project:** Tony La Russa TB

Sample ID: lcs-71662	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 71662	RunNo: 92821								
Prep Date: 11/22/2022	Analysis Date: 11/23/2022	SeqNo: 3341431 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	110	80	120			
Toluene	1.1	0.050	1.000	0	110	80	120			
Ethylbenzene	1.1	0.050	1.000	0	109	80	120			
Xylenes, Total	3.3	0.10	3.000	0	109	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		112	70	130			

Sample ID: mb-71662	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 71662	RunNo: 92821								
Prep Date: 11/22/2022	Analysis Date: 11/23/2022	SeqNo: 3341432 Units: mg/Kg								
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: 4-Bromofluorobenzene	1.1		1.000		111	70	130			

Sample ID: mb-71675	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 71675	RunNo: 92828								
Prep Date: 11/22/2022	Analysis Date: 11/28/2022	SeqNo: 3342395 Units: mg/Kg								
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: 4-Bromofluorobenzene	0.90		1.000		89.7	70	130			

Sample ID: LCS-71675	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 71675	RunNo: 92828								
Prep Date: 11/22/2022	Analysis Date: 11/28/2022	SeqNo: 3342396 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.025	1.000	0	89.0	80	120			
Toluene	0.91	0.050	1.000	0	91.1	80	120			
Ethylbenzene	0.91	0.050	1.000	0	91.4	80	120			
Xylenes, Total	2.8	0.10	3.000	0	93.7	80	120			
Surr: 4-Bromofluorobenzene	0.91		1.000		90.7	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 Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2211B76

02-Dec-22

Client: Vertex Resources Services, Inc.**Project:** Tony La Russa TB

Sample ID: lcs-71667	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 71667		RunNo: 92873							
Prep Date: 11/22/2022	Analysis Date: 11/28/2022		SeqNo: 3343549		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.3	0.025	1.000	0	132	80	120			S
Toluene	1.3	0.050	1.000	0	131	80	120			S
Ethylbenzene	1.3	0.050	1.000	0	130	80	120			S
Xylenes, Total	3.9	0.10	3.000	0	129	80	120			S
Surr: 4-Bromofluorobenzene	1.2		1.000		123	70	130			

Sample ID: mb-71667	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 71667		RunNo: 92873							
Prep Date: 11/22/2022	Analysis Date: 11/28/2022		SeqNo: 3343550		Units: mg/Kg					
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: 4-Bromofluorobenzene	1.3		1.000		125	70	130			

Sample ID: 2211B76-017ams	SampType: MS		TestCode: EPA Method 8021B: Volatiles							
Client ID: BH22-06 1'	Batch ID: 71667		RunNo: 92873							
Prep Date: 11/22/2022	Analysis Date: 11/28/2022		SeqNo: 3343553		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	0.9930	0	113	68.8	120			
Toluene	1.2	0.050	0.9930	0	116	73.6	124			
Ethylbenzene	1.2	0.050	0.9930	0	116	72.7	129			
Xylenes, Total	3.4	0.099	2.979	0	116	75.7	126			
Surr: 4-Bromofluorobenzene	1.2		0.9930		123	70	130			

Sample ID: 2211B76-017amsd	SampType: MSD		TestCode: EPA Method 8021B: Volatiles							
Client ID: BH22-06 1'	Batch ID: 71667		RunNo: 92873							
Prep Date: 11/22/2022	Analysis Date: 11/28/2022		SeqNo: 3343554		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.024	0.9794	0	116	68.8	120	1.09	20	
Toluene	1.2	0.049	0.9794	0	118	73.6	124	0.0637	20	
Ethylbenzene	1.2	0.049	0.9794	0	118	72.7	129	0.0674	20	
Xylenes, Total	3.4	0.098	2.938	0	117	75.7	126	0.526	20	
Surr: 4-Bromofluorobenzene	1.2		0.9794		120	70	130	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 Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
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 Resources
Services, Inc.

Work Order Number: 2211B76

RcptNo: 1

Received By: Kasandra Jimena Garcia 11/19/2022 7:45:00 AM

Completed By: Kasandra Jimena Garcia 11/19/2022 7:59:25 AM

Reviewed By: *KYC* 11/19/22

KYC

KYC

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? ☐

Checked by: *gn 11/19/22*

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

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	2.0	Good	Yes			
2	3.4	Good	Yes			
3	1.8	Good	Yes			

Chain-of-Custody Record

Client: Vertex

Mailing Address:

Phone #:

email or Fax#:

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)Accreditation: ☐ Az Compliance☐ NELAC ☐ Other☐ EDD (Type)

Date	Time	Matrix	Sample Name
11/16	12:00	Soil	BH22-05 0'
	12:10		BH22-05 1'
	12:20		BH22-05 2'
	12:30		BH22-06 0'
	12:40		BH22-06 1'
	12:50		BH22-06 2'
	13:00		BH22-08 0'
	13:10		BH22-08 1'
	13:20		BH22-08 2'
11/17	10:00		BH22-07 0'
11/17	10:10		BH22-07 1'
11/17	10:20		BH22-07 2'

Date: Time: Relinquished by:

Date: Time: Relinquished by:

11/18/22 VAD Monica PeppinTurn-Around Time: 5-Day☒ Standard ☒ Rush

Project Name:

Tommy La Russa TB

Project #:

22E-03804

Project Manager:

Monica PeppinSampler: M. WierOn Ice: ☒ Yes ☐ No# of Coolers: 3

Cooler Temp (including CF): (°C)

Container Type and #

Preservative Type

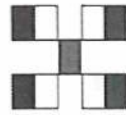
HEAL No.

20113764 oz.ice013014015016017018019020021022023024

Received by: Date Time

Monica Peppin 11/18/22 9:15

Received by: Date Time

M. Wier 11/19/22 7:45HALL ENVIRONMENTAL
ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	CO ₂ , F ₂ , Br ₂ , NO ₂ , NO ₃ , PO ₄ , SO ₄	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
BTEX, MTBE / TMB's (8021)								

Remarks:

20-0 = 2.03.4 - 0 = 3.4Metador 1.8 - 0 = 1.8

Chain-of-Custody Record

Client: Vertex

Mailing Address:

Phone #:

email or Fax#:

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)Accreditation: ☐ Az Compliance☐ NELAC ☐ Other☐ EDD (Type)Turn-Around Time: 5-Day☒ Standard ☐ Rush

Project Name:

Tony La Russa TB

Project #:

22E-03804

Project Manager:

Monica PeppinSampler: M. WierOn Ice: ☒ Yes ☐ No# of Coolers: 3

Cooler Temp (including CF):

Container Type and #

Preservative Type

HEAL No.

Date

Time

Sample Name

Matrix

Time

Sample Name

Matrix

Time

Sample Name

Matrix

Time

Sample Name

Matrix

Time

Sample Name

Matrix

Time

Sample Name

Matrix

Time

Sample Name

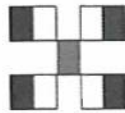
Matrix

Time

Sample Name

Matrix

Time

HALL ENVIRONMENTAL
ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

8081 Pesticides/8082 PCB's
TFH:8015D(GRO / DRO / MRO)
EDB (Method 504.1)
PAHs by 8310 or 8270SIMS
RCRA 8 Metals
(C, S, Br, NO₃, NO₂, PO₄, SO₄)
8260 (VOA)
8270 (Semi-VOA)
Total Coliform (Present/Absent)

BTEX

MTBE / TMB's (8021)

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

Remarks:

2.0-0=2.0

3.4-0=3.4

Matador 1.8-0=1.8

Received by: Monica Peppin Date: 1/18/23 Time: 9:15Received by: Monica Peppin Date: 1/18/23 Time: 9:15Received by: Monica Peppin Date: 1/18/23 Time: 9:15Received by: Monica Peppin Date: 1/18/23 Time: 9:15Received by: Monica Peppin Date: 1/18/23 Time: 9:15Received by: Monica Peppin Date: 1/18/23 Time: 9:15Received by: Monica Peppin Date: 1/18/23 Time: 9:15Received by: Monica Peppin Date: 1/18/23 Time: 9:15Received by: Monica Peppin Date: 1/18/23 Time: 9:15

Chain-of-Custody Record

Client: Vertex

Mailing Address:

Phone #:

email or Fax#:

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)Accreditation: ☐ Az Compliance☐ NELAC ☐ Other☐ EDD (Type)

Date Time Matrix Sample Name

11/17 13:00 Soil BH22-10 3^{Hold}11/17 13:10 Soil BH22-11 3^{Hold}

Date: Time: Relinquished by:

Date: Time: Relinquished by:

11/18/22 1900

Turn-Around Time: 5-Day☒ Standard ☒ Rush

Project Name:

Tony La Russa TB

Project #:

22E-03804

Project Manager:

Monica PeppinSampler: M. WierOn Ice: ☒ Yes ☐ No# of Coolers: 3

Cooler Temp (including CF): (°C)

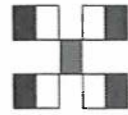
Container Type and #

407407

Preservative Type

iceice

HEAL No.

2211376037038HALL ENVIRONMENTAL
ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

TPH:8015D(GRO / DRO / MRO)

8081 Pesticides/8082 PCB's

EDB (Method 504.1)

PAHs by 8310 or 8270SIMS

RCRA 8 Metals

CO₂, F₂, Br₂, NO₃, NO₂, PO₄, SO₄

8260 (VOA)

8270 (Semi-VOA)

Total Coliform (Present/Absent)

Received by: Via: Date Time

Received by: Via: Date Time

Remarks:

2.0-0=2.03.4-0=3.41.8-0=3Matador



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

December 15, 2022

Monica Peppin

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX:

RE: Tony La Russa

OrderNo.: 2212227

Dear Monica Peppin:

Hall Environmental Analysis Laboratory received 16 sample(s) on 12/6/2022 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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a white background.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2212227

Date Reported: 12/15/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS22-01 1-1.5ft

Project: Tony La Russa

Collection Date: 12/1/2022 8:00:00 AM

Lab ID: 2212227-001

Matrix: SOIL

Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/9/2022 5:33:13 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/9/2022 5:33:13 PM
Surr: DNOP	106	21-129		%Rec	1	12/9/2022 5:33:13 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/9/2022 7:21:00 PM
Surr: BFB	94.6	37.7-212		%Rec	1	12/9/2022 7:21:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	12/9/2022 7:21:00 PM
Toluene	ND	0.050		mg/Kg	1	12/9/2022 7:21:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	12/9/2022 7:21:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	12/9/2022 7:21:00 PM
Surr: 4-Bromofluorobenzene	97.4	70-130		%Rec	1	12/9/2022 7:21:00 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	83	60		mg/Kg	20	12/10/2022 12:10:53 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212227

Date Reported: 12/15/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS22-02 1.5ft

Project: Tony La Russa

Collection Date: 12/1/2022 8:05:00 AM

Lab ID: 2212227-002

Matrix: SOIL

Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/9/2022 5:46:45 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/9/2022 5:46:45 PM
Surr: DNOP	104	21-129		%Rec	1	12/9/2022 5:46:45 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/9/2022 7:41:00 PM
Surr: BFB	95.2	37.7-212		%Rec	1	12/9/2022 7:41:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	12/9/2022 7:41:00 PM
Toluene	ND	0.050		mg/Kg	1	12/9/2022 7:41:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	12/9/2022 7:41:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	12/9/2022 7:41:00 PM
Surr: 4-Bromofluorobenzene	96.8	70-130		%Rec	1	12/9/2022 7:41:00 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	60		mg/Kg	20	12/10/2022 12:48:06 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212227

Date Reported: 12/15/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS22-03 1.5ft

Project: Tony La Russa

Collection Date: 12/1/2022 8:10:00 AM

Lab ID: 2212227-003

Matrix: SOIL

Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	12/9/2022 6:13:21 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/9/2022 6:13:21 PM
Surr: DNOP	102	21-129		%Rec	1	12/9/2022 6:13:21 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/9/2022 8:00:00 PM
Surr: BFB	97.3	37.7-212		%Rec	1	12/9/2022 8:00:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	12/9/2022 8:00:00 PM
Toluene	ND	0.050		mg/Kg	1	12/9/2022 8:00:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	12/9/2022 8:00:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	12/9/2022 8:00:00 PM
Surr: 4-Bromofluorobenzene	99.9	70-130		%Rec	1	12/9/2022 8:00:00 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	60		mg/Kg	20	12/10/2022 1:00:31 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212227

Date Reported: 12/15/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS22-04 1.5ft

Project: Tony La Russa

Collection Date: 12/1/2022 8:15:00 AM

Lab ID: 2212227-004

Matrix: SOIL

Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	12/9/2022 6:26:39 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	12/9/2022 6:26:39 PM
Surr: DNOP	104	21-129		%Rec	1	12/9/2022 6:26:39 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/9/2022 8:20:00 PM
Surr: BFB	99.1	37.7-212		%Rec	1	12/9/2022 8:20:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	12/9/2022 8:20:00 PM
Toluene	ND	0.050		mg/Kg	1	12/9/2022 8:20:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	12/9/2022 8:20:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	12/9/2022 8:20:00 PM
Surr: 4-Bromofluorobenzene	99.9	70-130		%Rec	1	12/9/2022 8:20:00 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	60		mg/Kg	20	12/10/2022 1:12:55 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2212227

Date Reported: 12/15/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS22-05 1.5ft

Project: Tony La Russa

Collection Date: 12/1/2022 8:20:00 AM

Lab ID: 2212227-005

Matrix: SOIL

Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/9/2022 6:39:49 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/9/2022 6:39:49 PM
Surr: DNOP	106	21-129		%Rec	1	12/9/2022 6:39:49 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/9/2022 8:59:00 PM
Surr: BFB	96.5	37.7-212		%Rec	1	12/9/2022 8:59:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	12/9/2022 8:59:00 PM
Toluene	ND	0.048		mg/Kg	1	12/9/2022 8:59:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	12/9/2022 8:59:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	12/9/2022 8:59:00 PM
Surr: 4-Bromofluorobenzene	98.2	70-130		%Rec	1	12/9/2022 8:59:00 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	120	60		mg/Kg	20	12/10/2022 1:25:19 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212227

Date Reported: 12/15/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS22-06 1.5ft

Project: Tony La Russa

Collection Date: 12/1/2022 8:25:00 AM

Lab ID: 2212227-006

Matrix: SOIL

Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	12/9/2022 6:52:58 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/9/2022 6:52:58 PM
Surr: DNOP	104	21-129		%Rec	1	12/9/2022 6:52:58 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/9/2022 9:19:00 PM
Surr: BFB	96.6	37.7-212		%Rec	1	12/9/2022 9:19:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	12/9/2022 9:19:00 PM
Toluene	ND	0.049		mg/Kg	1	12/9/2022 9:19:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/9/2022 9:19:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	12/9/2022 9:19:00 PM
Surr: 4-Bromofluorobenzene	99.0	70-130		%Rec	1	12/9/2022 9:19:00 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	93	60		mg/Kg	20	12/10/2022 1:37:43 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212227

Date Reported: 12/15/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS22-07 1 - 1.5ft

Project: Tony La Russa

Collection Date: 12/1/2022 8:30:00 AM

Lab ID: 2212227-007

Matrix: SOIL

Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	12/9/2022 7:06:07 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/9/2022 7:06:07 PM
Surr: DNOP	102	21-129		%Rec	1	12/9/2022 7:06:07 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/9/2022 9:39:00 PM
Surr: BFB	93.9	37.7-212		%Rec	1	12/9/2022 9:39:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	12/9/2022 9:39:00 PM
Toluene	ND	0.050		mg/Kg	1	12/9/2022 9:39:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	12/9/2022 9:39:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	12/9/2022 9:39:00 PM
Surr: 4-Bromofluorobenzene	97.1	70-130		%Rec	1	12/9/2022 9:39:00 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	60		mg/Kg	20	12/10/2022 2:14:56 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212227

Date Reported: 12/15/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS22-08 1ft

Project: Tony La Russa

Collection Date: 12/1/2022 8:35:00 AM

Lab ID: 2212227-008

Matrix: SOIL

Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	12/9/2022 7:19:11 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/9/2022 7:19:11 PM
Surr: DNOP	108	21-129		%Rec	1	12/9/2022 7:19:11 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/9/2022 9:58:00 PM
Surr: BFB	98.3	37.7-212		%Rec	1	12/9/2022 9:58:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	12/9/2022 9:58:00 PM
Toluene	ND	0.049		mg/Kg	1	12/9/2022 9:58:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/9/2022 9:58:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	12/9/2022 9:58:00 PM
Surr: 4-Bromofluorobenzene	97.9	70-130		%Rec	1	12/9/2022 9:58:00 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	59		mg/Kg	20	12/10/2022 2:27:20 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212227

Date Reported: 12/15/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS22-09 0.5ft

Project: Tony La Russa

Collection Date: 12/1/2022 8:40:00 AM

Lab ID: 2212227-009

Matrix: SOIL

Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	12/9/2022 7:32:12 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/9/2022 7:32:12 PM
Surr: DNOP	107	21-129		%Rec	1	12/9/2022 7:32:12 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/9/2022 10:18:00 PM
Surr: BFB	97.4	37.7-212		%Rec	1	12/9/2022 10:18:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	12/9/2022 10:18:00 PM
Toluene	ND	0.049		mg/Kg	1	12/9/2022 10:18:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/9/2022 10:18:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	12/9/2022 10:18:00 PM
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	12/9/2022 10:18:00 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	60		mg/Kg	20	12/10/2022 2:39:44 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2212227

Date Reported: 12/15/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS22-10 0.5ft

Project: Tony La Russa

Collection Date: 12/1/2022 8:45:00 AM

Lab ID: 2212227-010

Matrix: SOIL

Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	12/9/2022 7:45:14 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/9/2022 7:45:14 PM
Surr: DNOP	108	21-129		%Rec	1	12/9/2022 7:45:14 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/9/2022 10:38:00 PM
Surr: BFB	96.6	37.7-212		%Rec	1	12/9/2022 10:38:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	12/9/2022 10:38:00 PM
Toluene	ND	0.049		mg/Kg	1	12/9/2022 10:38:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/9/2022 10:38:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	12/9/2022 10:38:00 PM
Surr: 4-Bromofluorobenzene	99.5	70-130		%Rec	1	12/9/2022 10:38:00 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	62	60		mg/Kg	20	12/10/2022 2:52:09 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2212227

Date Reported: 12/15/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS22-11 0.5ft

Project: Tony La Russa

Collection Date: 12/1/2022 8:50:00 AM

Lab ID: 2212227-011

Matrix: SOIL

Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/9/2022 7:58:32 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/9/2022 7:58:32 PM
Surr: DNOP	108	21-129		%Rec	1	12/9/2022 7:58:32 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/9/2022 10:57:00 PM
Surr: BFB	90.8	37.7-212		%Rec	1	12/9/2022 10:57:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	12/9/2022 10:57:00 PM
Toluene	ND	0.048		mg/Kg	1	12/9/2022 10:57:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	12/9/2022 10:57:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	12/9/2022 10:57:00 PM
Surr: 4-Bromofluorobenzene	96.0	70-130		%Rec	1	12/9/2022 10:57:00 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	60		mg/Kg	20	12/10/2022 3:04:33 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2212227

Date Reported: 12/15/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS22-12 0.5ft - 1ft

Project: Tony La Russa

Collection Date: 12/1/2022 8:55:00 AM

Lab ID: 2212227-012

Matrix: SOIL

Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/9/2022 8:11:56 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/9/2022 8:11:56 PM
Surr: DNOP	111	21-129		%Rec	1	12/9/2022 8:11:56 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/9/2022 11:17:00 PM
Surr: BFB	99.3	37.7-212		%Rec	1	12/9/2022 11:17:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	12/9/2022 11:17:00 PM
Toluene	ND	0.050		mg/Kg	1	12/9/2022 11:17:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	12/9/2022 11:17:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	12/9/2022 11:17:00 PM
Surr: 4-Bromofluorobenzene	99.8	70-130		%Rec	1	12/9/2022 11:17:00 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	59		mg/Kg	20	12/10/2022 3:16:57 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2212227

Date Reported: 12/15/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS22-13 1ft

Project: Tony La Russa

Collection Date: 12/1/2022 9:00:00 AM

Lab ID: 2212227-013

Matrix: SOIL

Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/9/2022 8:25:25 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/9/2022 8:25:25 PM
Surr: DNOP	113	21-129		%Rec	1	12/9/2022 8:25:25 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/9/2022 11:37:00 PM
Surr: BFB	95.5	37.7-212		%Rec	1	12/9/2022 11:37:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	12/9/2022 11:37:00 PM
Toluene	ND	0.049		mg/Kg	1	12/9/2022 11:37:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/9/2022 11:37:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	12/9/2022 11:37:00 PM
Surr: 4-Bromofluorobenzene	99.7	70-130		%Rec	1	12/9/2022 11:37:00 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	59		mg/Kg	20	12/10/2022 3:29:21 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2212227

Date Reported: 12/15/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS22-14 1ft

Project: Tony La Russa

Collection Date: 12/1/2022 9:05:00 AM

Lab ID: 2212227-014

Matrix: SOIL

Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	12/9/2022 9:19:25 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/9/2022 9:19:25 PM
Surr: DNOP	116	21-129		%Rec	1	12/9/2022 9:19:25 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/9/2022 11:56:00 PM
Surr: BFB	92.4	37.7-212		%Rec	1	12/9/2022 11:56:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	12/9/2022 11:56:00 PM
Toluene	ND	0.049		mg/Kg	1	12/9/2022 11:56:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/9/2022 11:56:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	12/9/2022 11:56:00 PM
Surr: 4-Bromofluorobenzene	95.9	70-130		%Rec	1	12/9/2022 11:56:00 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	59		mg/Kg	20	12/10/2022 3:41:45 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212227

Date Reported: 12/15/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS22-15 1ft

Project: Tony La Russa

Collection Date: 12/1/2022 9:10:00 AM

Lab ID: 2212227-015

Matrix: SOIL

Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/9/2022 9:59:59 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/9/2022 9:59:59 PM
Surr: DNOP	109	21-129		%Rec	1	12/9/2022 9:59:59 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/10/2022 1:54:00 AM
Surr: BFB	94.4	37.7-212		%Rec	1	12/10/2022 1:54:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	12/10/2022 1:54:00 AM
Toluene	ND	0.049		mg/Kg	1	12/10/2022 1:54:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	12/10/2022 1:54:00 AM
Xylenes, Total	ND	0.097		mg/Kg	1	12/10/2022 1:54:00 AM
Surr: 4-Bromofluorobenzene	98.5	70-130		%Rec	1	12/10/2022 1:54:00 AM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	60		mg/Kg	20	12/10/2022 3:54:09 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212227

Date Reported: 12/15/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS22-16 1ft

Project: Tony La Russa

Collection Date: 12/1/2022 9:15:00 AM

Lab ID: 2212227-016

Matrix: SOIL

Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	12/9/2022 10:13:28 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/9/2022 10:13:28 PM
Surr: DNOP	111	21-129		%Rec	1	12/9/2022 10:13:28 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/10/2022 2:53:00 AM
Surr: BFB	93.0	37.7-212		%Rec	1	12/10/2022 2:53:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	12/10/2022 2:53:00 AM
Toluene	ND	0.049		mg/Kg	1	12/10/2022 2:53:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	12/10/2022 2:53:00 AM
Xylenes, Total	ND	0.099		mg/Kg	1	12/10/2022 2:53:00 AM
Surr: 4-Bromofluorobenzene	98.3	70-130		%Rec	1	12/10/2022 2:53:00 AM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	79	60		mg/Kg	20	12/10/2022 4:06:34 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2212227

15-Dec-22

Client: Vertex Resources Services, Inc.
Project: Tony La Russa

Sample ID: MB-72008		SampType: mblk		TestCode: EPA Method 300.0: Anions						
Client ID: PBS		Batch ID: 72008		RunNo: 93188						
Prep Date: 12/10/2022		Analysis Date: 12/10/2022		SeqNo: 3357721			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-72008		SampType: lcs		TestCode: EPA Method 300.0: Anions						
Client ID: LCSS		Batch ID: 72008		RunNo: 93188						
Prep Date: 12/10/2022		Analysis Date: 12/10/2022		SeqNo: 3357722			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	98.1	90	110			

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 Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2212227

15-Dec-22

Client: Vertex Resources Services, Inc.**Project:** Tony La Russa

Sample ID: MB-71951	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 71951	RunNo: 93161								
Prep Date: 12/8/2022	Analysis Date: 12/9/2022	SeqNo: 3358851 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		110	21	129			

Sample ID: LCS-71951	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 71951	RunNo: 93161								
Prep Date: 12/8/2022	Analysis Date: 12/9/2022	SeqNo: 3358853 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	57	15	50.00	0	113	64.4	127			
Surr: DNOP	5.5		5.000		109	21	129			

Sample ID: MB-71961	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 71961	RunNo: 93161								
Prep Date: 12/8/2022	Analysis Date: 12/9/2022	SeqNo: 3358878 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		112	21	129			

Sample ID: LCS-71961	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 71961	RunNo: 93161								
Prep Date: 12/8/2022	Analysis Date: 12/9/2022	SeqNo: 3358879 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	54	15	50.00	0	109	64.4	127			
Surr: DNOP	5.6		5.000		111	21	129			

Sample ID: 2212227-014AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: WS22-14 1ft	Batch ID: 71961	RunNo: 93161								
Prep Date: 12/8/2022	Analysis Date: 12/9/2022	SeqNo: 3358881 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	54	15	49.80	0	108	36.1	154			
Surr: DNOP	6.0		4.980		121	21	129			

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 Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2212227

15-Dec-22

Client: Vertex Resources Services, Inc.
Project: Tony La Russa

Sample ID: 2212227-014AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: WS22-14 1ft	Batch ID: 71961	RunNo: 93161								
Prep Date: 12/8/2022	Analysis Date: 12/9/2022	SeqNo: 3358882 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	60	15	49.65	0	120	36.1	154	10.3	33.9	
Surr: DNOP	6.1		4.965		123	21	129	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 Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2212227

15-Dec-22

Client: Vertex Resources Services, Inc.**Project:** Tony La Russa

Sample ID: 2212227-015ams	SampType: MS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: WS22-15 1ft	Batch ID: 71937		RunNo: 93186							
Prep Date: 12/8/2022	Analysis Date: 12/10/2022		SeqNo: 3357548		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.8	24.20	0	98.8	70	130			
Surr: BFB	2100		968.1		219	37.7	212			S

Sample ID: 2212227-015amsd	SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: WS22-15 1ft	Batch ID: 71937		RunNo: 93186							
Prep Date: 12/8/2022	Analysis Date: 12/10/2022		SeqNo: 3357549		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.9	24.39	0	97.0	70	130	1.06	20	
Surr: BFB	2100		975.6		211	37.7	212	0	0	

Sample ID: lcs-71933	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 71933		RunNo: 93186							
Prep Date: 12/8/2022	Analysis Date: 12/9/2022		SeqNo: 3358931		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	98.7	72.3	137			
Surr: BFB	2200		1000		215	37.7	212			S

Sample ID: mb-71933	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 71933		RunNo: 93186							
Prep Date: 12/8/2022	Analysis Date: 12/9/2022		SeqNo: 3358932		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	920		1000		92.2	37.7	212			

Sample ID: lcs-71937	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 71937		RunNo: 93186							
Prep Date: 12/8/2022	Analysis Date: 12/10/2022		SeqNo: 3358933		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	94.4	72.3	137			
Surr: BFB	2100		1000		214	37.7	212			S

Sample ID: mb-71937	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 71937		RunNo: 93186							
Prep Date: 12/8/2022	Analysis Date: 12/10/2022		SeqNo: 3358934		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

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 Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2212227

15-Dec-22

Client: Vertex Resources Services, Inc.

Project: Tony La Russa

Sample ID: mb-71937	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 71937	RunNo: 93186								
Prep Date: 12/8/2022	Analysis Date: 12/10/2022	SeqNo: 3358934		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	930		1000		92.6	37.7	212			

- 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 Quantitative Limit

S

% Recovery outside of standard limits. If undiluted results may be estimated.
- B

Analyte detected in the associated Method Blank

E

Above Quantitation Range/Estimated Value

J

Analyte detected below quantitation limits

P

Sample pH Not In Range

RL

Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2212227

15-Dec-22

Client: Vertex Resources Services, Inc.**Project:** Tony La Russa

Sample ID: ics-71933	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 71933		RunNo: 93186							
Prep Date: 12/8/2022	Analysis Date: 12/9/2022		SeqNo: 3357790		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	100	80	120			
Toluene	1.0	0.050	1.000	0	100	80	120			
Ethylbenzene	0.99	0.050	1.000	0	99.3	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.4	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		100	70	130			

Sample ID: mb-71933	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 71933		RunNo: 93186							
Prep Date: 12/8/2022	Analysis Date: 12/9/2022		SeqNo: 3357791		Units: mg/Kg					
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: 4-Bromofluorobenzene	0.96		1.000		96.5	70	130			

Sample ID: ics-71937	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 71937		RunNo: 93186							
Prep Date: 12/8/2022	Analysis Date: 12/10/2022		SeqNo: 3357814		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	100	80	120			
Toluene	1.0	0.050	1.000	0	101	80	120			
Ethylbenzene	1.0	0.050	1.000	0	99.9	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.7	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		100	70	130			

Sample ID: mb-71937	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 71937		RunNo: 93186							
Prep Date: 12/8/2022	Analysis Date: 12/10/2022		SeqNo: 3357815		Units: mg/Kg					
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: 4-Bromofluorobenzene	0.98		1.000		98.0	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 Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2212227

15-Dec-22

Client: Vertex Resources Services, Inc.**Project:** Tony La Russa

Sample ID: 2212227-016ams	SampType: MS		TestCode: EPA Method 8021B: Volatiles							
Client ID: WS22-16 1ft	Batch ID: 71937		RunNo: 93186							
Prep Date: 12/8/2022	Analysis Date: 12/10/2022		SeqNo: 3357818		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.024	0.9785	0	101	68.8	120			
Toluene	1.0	0.049	0.9785	0	102	73.6	124			
Ethylbenzene	0.99	0.049	0.9785	0	102	72.7	129			
Xylenes, Total	3.0	0.098	2.935	0	101	75.7	126			
Surr: 4-Bromofluorobenzene	0.97		0.9785		99.0	70	130			

Sample ID: 2212227-016amsd	SampType: MSD		TestCode: EPA Method 8021B: Volatiles							
Client ID: WS22-16 1ft	Batch ID: 71937		RunNo: 93186							
Prep Date: 12/8/2022	Analysis Date: 12/10/2022		SeqNo: 3357819		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	0.9862	0	97.0	68.8	120	3.43	20	
Toluene	0.97	0.049	0.9862	0	98.2	73.6	124	3.16	20	
Ethylbenzene	0.95	0.049	0.9862	0	96.8	72.7	129	4.02	20	
Xylenes, Total	2.8	0.099	2.959	0	96.2	75.7	126	4.00	20	
Surr: 4-Bromofluorobenzene	0.96		0.9862		97.0	70	130	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 Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit



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 Resources
Services, Inc.

Work Order Number: 2212227

RcptNo: 1

Received By: Juan Rojas

12/6/2022 7:30:00 AM

Juan Rojas

Completed By: Isaiah Ortiz

12/6/2022 9:43:46 AM

I-Ortiz

Reviewed By: *JR 12-6-22*

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace $<1/4"$ for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: *KPG 12.06.22*

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.3	Good	Not Present			
2	0.1	Good	Not Present			

Chain-of-Custody Record

Client: Nyctoban ResourcesMailing Address: DuFilePhone #: _____
email or Fax#: _____QA/QC Package: _____
☐ Standard ☐ Level 4 (Full Validation)Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other _____☐ EDD (Type) _____

Turn-Around Time: _____

☒ Standard ☐ Rush

Project Name: _____

Project #: _____

Project Manager: _____

Sampler: Fernando RodriguezOn Ice: ☒ Yes ☐ No# of Coolers: 2Cooler Temp (including CP): 6.5-6.2-6.3 (°C)

Container Type and #

Preservative Type

HEAL No.

Date

Time

Matrix

Sample Name

Date

Time

Matrix

Sample Name

Date

Time

Matrix

Sample Name

Date

Time

Matrix

Sample Name

Date

Time

Matrix

Sample Name

Date

Time

Matrix

Sample Name

Date

Time

Matrix

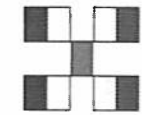
Sample Name

Date

Time

Matrix

Sample Name

HALL ENVIRONMENTAL
ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

TPH:8015D(GRO / DRO / MRO)
8081 Pesticides/8082 PCB's
EDB (Method 504.1)
PAHs by 8310 or 8270SIMS
RCRA 8 Metals
Cd, F, Br, NO₃, NO₂, PO₄, SO₄
8260 (VOA)
8270 (Semi-VOA)
Total Coliform (Present/Absent)

BTEX / MTBE / TMB's (8021)

✓

✓

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Remarks:

CC: Monica Peppin

Received by: _____ Date: _____

Via: _____

Received by: _____ Date: _____

Via: _____

Received by: _____ Date: _____

Via: _____

Received by: _____ Date: _____

Via: _____



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

December 16, 2022

Monica Peppin

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX

RE: Tony La Russa

OrderNo.: 2212231

Dear Monica Peppin:

Hall Environmental Analysis Laboratory received 55 sample(s) on 12/6/2022 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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a white background.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2212231

Date Reported: 12/16/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS22-01 1.5ft

Project: Tony La Russa

Collection Date: 12/1/2022 9:20:00 AM

Lab ID: 2212231-001

Matrix: SOIL

Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	12/9/2022 10:26:57 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/9/2022 10:26:57 PM
Surr: DNOP	110	21-129		%Rec	1	12/9/2022 10:26:57 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/10/2022 3:52:00 AM
Surr: BFB	90.7	37.7-212		%Rec	1	12/10/2022 3:52:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	12/10/2022 3:52:00 AM
Toluene	ND	0.049		mg/Kg	1	12/10/2022 3:52:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	12/10/2022 3:52:00 AM
Xylenes, Total	ND	0.097		mg/Kg	1	12/10/2022 3:52:00 AM
Surr: 4-Bromofluorobenzene	95.2	70-130		%Rec	1	12/10/2022 3:52:00 AM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	59		mg/Kg	20	12/10/2022 4:43:47 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2212231

Date Reported: 12/16/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS22-02 1.5ft

Project: Tony La Russa

Collection Date: 12/1/2022 9:25:00 AM

Lab ID: 2212231-002

Matrix: SOIL

Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	12/9/2022 10:40:24 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/9/2022 10:40:24 PM
Surr: DNOP	100	21-129		%Rec	1	12/9/2022 10:40:24 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/10/2022 4:11:00 AM
Surr: BFB	101	37.7-212		%Rec	1	12/10/2022 4:11:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	12/10/2022 4:11:00 AM
Toluene	ND	0.049		mg/Kg	1	12/10/2022 4:11:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	12/10/2022 4:11:00 AM
Xylenes, Total	ND	0.097		mg/Kg	1	12/10/2022 4:11:00 AM
Surr: 4-Bromofluorobenzene	96.3	70-130		%Rec	1	12/10/2022 4:11:00 AM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	60		mg/Kg	20	12/10/2022 5:21:00 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Page 2 of 66

Analytical Report

Lab Order 2212231

Date Reported: 12/16/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS22-03 1.5ft

Project: Tony La Russa

Collection Date: 12/1/2022 9:30:00 AM

Lab ID: 2212231-003

Matrix: SOIL

Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	12/9/2022 10:53:51 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	12/9/2022 10:53:51 PM
Surr: DNOP	104	21-129		%Rec	1	12/9/2022 10:53:51 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/10/2022 4:31:00 AM
Surr: BFB	89.5	37.7-212		%Rec	1	12/10/2022 4:31:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	12/10/2022 4:31:00 AM
Toluene	ND	0.048		mg/Kg	1	12/10/2022 4:31:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	12/10/2022 4:31:00 AM
Xylenes, Total	ND	0.097		mg/Kg	1	12/10/2022 4:31:00 AM
Surr: 4-Bromofluorobenzene	96.2	70-130		%Rec	1	12/10/2022 4:31:00 AM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	60		mg/Kg	20	12/10/2022 5:33:24 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2212231

Date Reported: 12/16/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS22-04 1.5ft

Project: Tony La Russa

Collection Date: 12/1/2022 9:35:00 AM

Lab ID: 2212231-004

Matrix: SOIL

Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/9/2022 11:07:27 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/9/2022 11:07:27 PM
Surr: DNOP	103	21-129		%Rec	1	12/9/2022 11:07:27 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/10/2022 4:50:00 AM
Surr: BFB	95.1	37.7-212		%Rec	1	12/10/2022 4:50:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	12/10/2022 4:50:00 AM
Toluene	ND	0.049		mg/Kg	1	12/10/2022 4:50:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	12/10/2022 4:50:00 AM
Xylenes, Total	ND	0.099		mg/Kg	1	12/10/2022 4:50:00 AM
Surr: 4-Bromofluorobenzene	99.2	70-130		%Rec	1	12/10/2022 4:50:00 AM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	80	60		mg/Kg	20	12/10/2022 5:45:49 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2212231

Date Reported: 12/16/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS22-05 1.5ft

Project: Tony La Russa

Collection Date: 12/1/2022 9:40:00 AM

Lab ID: 2212231-005

Matrix: SOIL

Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	12/9/2022 11:20:58 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/9/2022 11:20:58 PM
Surr: DNOP	104	21-129		%Rec	1	12/9/2022 11:20:58 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/10/2022 5:10:00 AM
Surr: BFB	94.5	37.7-212		%Rec	1	12/10/2022 5:10:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	12/10/2022 5:10:00 AM
Toluene	ND	0.048		mg/Kg	1	12/10/2022 5:10:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	12/10/2022 5:10:00 AM
Xylenes, Total	ND	0.097		mg/Kg	1	12/10/2022 5:10:00 AM
Surr: 4-Bromofluorobenzene	98.6	70-130		%Rec	1	12/10/2022 5:10:00 AM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	110	59		mg/Kg	20	12/10/2022 6:23:01 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212231

Date Reported: 12/16/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS22-06 1.5ft

Project: Tony La Russa

Collection Date: 12/1/2022 9:45:00 AM

Lab ID: 2212231-006

Matrix: SOIL

Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/9/2022 11:47:46 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/9/2022 11:47:46 PM
Surr: DNOP	104	21-129		%Rec	1	12/9/2022 11:47:46 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/10/2022 5:29:00 AM
Surr: BFB	95.8	37.7-212		%Rec	1	12/10/2022 5:29:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	12/10/2022 5:29:00 AM
Toluene	ND	0.048		mg/Kg	1	12/10/2022 5:29:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	12/10/2022 5:29:00 AM
Xylenes, Total	ND	0.097		mg/Kg	1	12/10/2022 5:29:00 AM
Surr: 4-Bromofluorobenzene	98.7	70-130		%Rec	1	12/10/2022 5:29:00 AM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	60		mg/Kg	20	12/10/2022 6:35:25 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212231

Date Reported: 12/16/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS22-07 0.5ft

Project: Tony La Russa

Collection Date: 12/1/2022 9:50:00 AM

Lab ID: 2212231-007

Matrix: SOIL

Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/10/2022 12:01:06 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/10/2022 12:01:06 AM
Surr: DNOP	105	21-129		%Rec	1	12/10/2022 12:01:06 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/10/2022 5:49:00 AM
Surr: BFB	93.2	37.7-212		%Rec	1	12/10/2022 5:49:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	12/10/2022 5:49:00 AM
Toluene	ND	0.049		mg/Kg	1	12/10/2022 5:49:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	12/10/2022 5:49:00 AM
Xylenes, Total	ND	0.098		mg/Kg	1	12/10/2022 5:49:00 AM
Surr: 4-Bromofluorobenzene	99.9	70-130		%Rec	1	12/10/2022 5:49:00 AM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	60		mg/Kg	20	12/10/2022 8:02:15 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2212231

Date Reported: 12/16/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS22-08 0.5ft

Project: Tony La Russa

Collection Date: 12/1/2022 9:55:00 AM

Lab ID: 2212231-008

Matrix: SOIL

Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/10/2022 12:14:28 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/10/2022 12:14:28 AM
Surr: DNOP	105	21-129		%Rec	1	12/10/2022 12:14:28 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/10/2022 6:09:00 AM
Surr: BFB	98.1	37.7-212		%Rec	1	12/10/2022 6:09:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	12/10/2022 6:09:00 AM
Toluene	ND	0.049		mg/Kg	1	12/10/2022 6:09:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	12/10/2022 6:09:00 AM
Xylenes, Total	ND	0.099		mg/Kg	1	12/10/2022 6:09:00 AM
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	12/10/2022 6:09:00 AM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	59		mg/Kg	20	12/10/2022 8:14:40 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212231

Date Reported: 12/16/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS22-09 0.5ft

Project: Tony La Russa

Collection Date: 12/1/2022 10:00:00 AM

Lab ID: 2212231-009

Matrix: SOIL

Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/10/2022 12:27:54 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/10/2022 12:27:54 AM
Surr: DNOP	109	21-129		%Rec	1	12/10/2022 12:27:54 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/10/2022 6:48:00 AM
Surr: BFB	96.0	37.7-212		%Rec	1	12/10/2022 6:48:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	12/10/2022 6:48:00 AM
Toluene	ND	0.050		mg/Kg	1	12/10/2022 6:48:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	12/10/2022 6:48:00 AM
Xylenes, Total	ND	0.10		mg/Kg	1	12/10/2022 6:48:00 AM
Surr: 4-Bromofluorobenzene	99.7	70-130		%Rec	1	12/10/2022 6:48:00 AM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	60		mg/Kg	20	12/10/2022 8:27:04 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2212231

Date Reported: 12/16/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS22-10 0.5ft

Project: Tony La Russa

Collection Date: 12/1/2022 10:05:00 AM

Lab ID: 2212231-010

Matrix: SOIL

Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	12/10/2022 12:41:23 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/10/2022 12:41:23 AM
Surr: DNOP	108	21-129		%Rec	1	12/10/2022 12:41:23 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/10/2022 7:07:00 AM
Surr: BFB	93.7	37.7-212		%Rec	1	12/10/2022 7:07:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	12/10/2022 7:07:00 AM
Toluene	ND	0.050		mg/Kg	1	12/10/2022 7:07:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	12/10/2022 7:07:00 AM
Xylenes, Total	ND	0.10		mg/Kg	1	12/10/2022 7:07:00 AM
Surr: 4-Bromofluorobenzene	97.8	70-130		%Rec	1	12/10/2022 7:07:00 AM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	60		mg/Kg	20	12/10/2022 8:39:29 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2212231

Date Reported: 12/16/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS22-11 0.5ft

Project: Tony La Russa

Collection Date: 12/1/2022 10:10:00 AM

Lab ID: 2212231-011

Matrix: SOIL

Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/10/2022 12:54:54 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/10/2022 12:54:54 AM
Surr: DNOP	120	21-129		%Rec	1	12/10/2022 12:54:54 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/10/2022 7:27:00 AM
Surr: BFB	95.6	37.7-212		%Rec	1	12/10/2022 7:27:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	12/10/2022 7:27:00 AM
Toluene	ND	0.048		mg/Kg	1	12/10/2022 7:27:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	12/10/2022 7:27:00 AM
Xylenes, Total	ND	0.097		mg/Kg	1	12/10/2022 7:27:00 AM
Surr: 4-Bromofluorobenzene	99.7	70-130		%Rec	1	12/10/2022 7:27:00 AM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	59		mg/Kg	20	12/10/2022 8:51:53 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2212231

Date Reported: 12/16/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS22-12 1ft

Project: Tony La Russa

Collection Date: 12/1/2022 10:15:00 AM

Lab ID: 2212231-012

Matrix: SOIL

Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	12/10/2022 1:07:50 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	12/10/2022 1:07:50 AM
Surr: DNOP	105	21-129		%Rec	1	12/10/2022 1:07:50 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/10/2022 7:46:00 AM
Surr: BFB	95.3	37.7-212		%Rec	1	12/10/2022 7:46:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	12/10/2022 7:46:00 AM
Toluene	ND	0.049		mg/Kg	1	12/10/2022 7:46:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	12/10/2022 7:46:00 AM
Xylenes, Total	ND	0.098		mg/Kg	1	12/10/2022 7:46:00 AM
Surr: 4-Bromofluorobenzene	99.3	70-130		%Rec	1	12/10/2022 7:46:00 AM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	65	60		mg/Kg	20	12/10/2022 9:04:18 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212231

Date Reported: 12/16/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS22-13 1ft

Project: Tony La Russa

Collection Date: 12/1/2022 10:20:00 AM

Lab ID: 2212231-013

Matrix: SOIL

Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	12/10/2022 1:20:53 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	12/10/2022 1:20:53 AM
Surr: DNOP	106	21-129		%Rec	1	12/10/2022 1:20:53 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/10/2022 8:06:00 AM
Surr: BFB	100	37.7-212		%Rec	1	12/10/2022 8:06:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	12/10/2022 8:06:00 AM
Toluene	ND	0.049		mg/Kg	1	12/10/2022 8:06:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	12/10/2022 8:06:00 AM
Xylenes, Total	ND	0.098		mg/Kg	1	12/10/2022 8:06:00 AM
Surr: 4-Bromofluorobenzene	99.0	70-130		%Rec	1	12/10/2022 8:06:00 AM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	140	60		mg/Kg	20	12/10/2022 9:41:30 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2212231

Date Reported: 12/16/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS22-14 1ft

Project: Tony La Russa

Collection Date: 12/1/2022 10:25:00 AM

Lab ID: 2212231-014

Matrix: SOIL

Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	12/10/2022 1:33:43 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/10/2022 1:33:43 AM
Surr: DNOP	107	21-129		%Rec	1	12/10/2022 1:33:43 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/10/2022 8:25:00 AM
Surr: BFB	92.2	37.7-212		%Rec	1	12/10/2022 8:25:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	12/10/2022 8:25:00 AM
Toluene	ND	0.049		mg/Kg	1	12/10/2022 8:25:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	12/10/2022 8:25:00 AM
Xylenes, Total	ND	0.099		mg/Kg	1	12/10/2022 8:25:00 AM
Surr: 4-Bromofluorobenzene	98.5	70-130		%Rec	1	12/10/2022 8:25:00 AM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	59		mg/Kg	20	12/10/2022 9:53:54 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2212231

Date Reported: 12/16/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS22-15 1ft

Project: Tony La Russa

Collection Date: 12/1/2022 10:30:00 AM

Lab ID: 2212231-015

Matrix: SOIL

Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/10/2022 1:46:26 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/10/2022 1:46:26 AM
Surr: DNOP	108	21-129		%Rec	1	12/10/2022 1:46:26 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/10/2022 8:45:00 AM
Surr: BFB	93.5	37.7-212		%Rec	1	12/10/2022 8:45:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	12/10/2022 8:45:00 AM
Toluene	ND	0.048		mg/Kg	1	12/10/2022 8:45:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	12/10/2022 8:45:00 AM
Xylenes, Total	ND	0.097		mg/Kg	1	12/10/2022 8:45:00 AM
Surr: 4-Bromofluorobenzene	98.3	70-130		%Rec	1	12/10/2022 8:45:00 AM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	60		mg/Kg	20	12/10/2022 10:06:18 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2212231

Date Reported: 12/16/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS22-16 1ft

Project: Tony La Russa

Collection Date: 12/1/2022 10:35:00 AM

Lab ID: 2212231-016

Matrix: SOIL

Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/10/2022 1:59:06 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/10/2022 1:59:06 AM
Surr: DNOP	108	21-129		%Rec	1	12/10/2022 1:59:06 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/10/2022 9:05:00 AM
Surr: BFB	103	37.7-212		%Rec	1	12/10/2022 9:05:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	12/10/2022 9:05:00 AM
Toluene	ND	0.050		mg/Kg	1	12/10/2022 9:05:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	12/10/2022 9:05:00 AM
Xylenes, Total	ND	0.099		mg/Kg	1	12/10/2022 9:05:00 AM
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	12/10/2022 9:05:00 AM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	66	61		mg/Kg	20	12/10/2022 10:18:43 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212231

Date Reported: 12/16/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS22-17 1ft

Project: Tony La Russa

Collection Date: 12/1/2022 10:40:00 AM

Lab ID: 2212231-017

Matrix: SOIL

Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	12/9/2022 9:11:07 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/9/2022 9:11:07 AM
Surr: DNOP	122	21-129		%Rec	1	12/9/2022 9:11:07 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/10/2022 9:24:00 AM
Surr: BFB	96.6	37.7-212		%Rec	1	12/10/2022 9:24:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	12/10/2022 9:24:00 AM
Toluene	ND	0.049		mg/Kg	1	12/10/2022 9:24:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	12/10/2022 9:24:00 AM
Xylenes, Total	ND	0.099		mg/Kg	1	12/10/2022 9:24:00 AM
Surr: 4-Bromofluorobenzene	98.9	70-130		%Rec	1	12/10/2022 9:24:00 AM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	61		mg/Kg	20	12/10/2022 10:31:08 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2212231

Date Reported: 12/16/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS22-18 1ft

Project: Tony La Russa

Collection Date: 12/1/2022 10:45:00 AM

Lab ID: 2212231-018

Matrix: SOIL

Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/10/2022 2:11:47 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/10/2022 2:11:47 AM
Surr: DNOP	108	21-129		%Rec	1	12/10/2022 2:11:47 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/10/2022 9:44:00 AM
Surr: BFB	93.5	37.7-212		%Rec	1	12/10/2022 9:44:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	12/10/2022 9:44:00 AM
Toluene	ND	0.049		mg/Kg	1	12/10/2022 9:44:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	12/10/2022 9:44:00 AM
Xylenes, Total	ND	0.099		mg/Kg	1	12/10/2022 9:44:00 AM
Surr: 4-Bromofluorobenzene	98.3	70-130		%Rec	1	12/10/2022 9:44:00 AM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	160	60		mg/Kg	20	12/10/2022 10:43:32 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2212231

Date Reported: 12/16/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS22-19 1ft

Project: Tony La Russa

Collection Date: 12/1/2022 10:50:00 AM

Lab ID: 2212231-019

Matrix: SOIL

Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	12/9/2022 9:48:25 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	12/9/2022 9:48:25 AM
Surr: DNOP	115	21-129		%Rec	1	12/9/2022 9:48:25 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/11/2022 4:05:15 PM
Surr: BFB	89.1	37.7-212		%Rec	1	12/11/2022 4:05:15 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	12/11/2022 4:05:15 PM
Toluene	ND	0.048		mg/Kg	1	12/11/2022 4:05:15 PM
Ethylbenzene	ND	0.048		mg/Kg	1	12/11/2022 4:05:15 PM
Xylenes, Total	ND	0.097		mg/Kg	1	12/11/2022 4:05:15 PM
Surr: 4-Bromofluorobenzene	87.4	70-130		%Rec	1	12/11/2022 4:05:15 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	250	60		mg/Kg	20	12/10/2022 10:55:57 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2212231

Date Reported: 12/16/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS22-20 1ft

Project: Tony La Russa

Collection Date: 12/1/2022 10:55:00 AM

Lab ID: 2212231-020

Matrix: SOIL

Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	12/9/2022 9:58:58 AM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	12/9/2022 9:58:58 AM
Surr: DNOP	116	21-129		%Rec	1	12/9/2022 9:58:58 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/11/2022 5:15:56 PM
Surr: BFB	90.2	37.7-212		%Rec	1	12/11/2022 5:15:56 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	12/11/2022 5:15:56 PM
Toluene	ND	0.049		mg/Kg	1	12/11/2022 5:15:56 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/11/2022 5:15:56 PM
Xylenes, Total	ND	0.097		mg/Kg	1	12/11/2022 5:15:56 PM
Surr: 4-Bromofluorobenzene	90.6	70-130		%Rec	1	12/11/2022 5:15:56 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	150	60		mg/Kg	20	12/10/2022 11:08:21 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212231

Date Reported: 12/16/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS22-21 1ft

Project: Tony La Russa

Collection Date: 12/1/2022 11:00:00 AM

Lab ID: 2212231-021

Matrix: SOIL

Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/9/2022 10:09:36 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/9/2022 10:09:36 AM
Surr: DNOP	115	21-129		%Rec	1	12/9/2022 10:09:36 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/11/2022 6:26:41 PM
Surr: BFB	89.6	37.7-212		%Rec	1	12/11/2022 6:26:41 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	12/11/2022 6:26:41 PM
Toluene	ND	0.049		mg/Kg	1	12/11/2022 6:26:41 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/11/2022 6:26:41 PM
Xylenes, Total	ND	0.098		mg/Kg	1	12/11/2022 6:26:41 PM
Surr: 4-Bromofluorobenzene	90.3	70-130		%Rec	1	12/11/2022 6:26:41 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	93	60		mg/Kg	20	12/10/2022 11:20:45 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2212231

Date Reported: 12/16/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS22-22 1ft

Project: Tony La Russa

Collection Date: 12/1/2022 11:05:00 AM

Lab ID: 2212231-022

Matrix: SOIL

Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	12/9/2022 12:19:11 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/9/2022 12:19:11 PM
Surr: DNOP	118	21-129		%Rec	1	12/9/2022 12:19:11 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/11/2022 6:50:16 PM
Surr: BFB	90.4	37.7-212		%Rec	1	12/11/2022 6:50:16 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	12/11/2022 6:50:16 PM
Toluene	ND	0.049		mg/Kg	1	12/11/2022 6:50:16 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/11/2022 6:50:16 PM
Xylenes, Total	ND	0.099		mg/Kg	1	12/11/2022 6:50:16 PM
Surr: 4-Bromofluorobenzene	89.8	70-130		%Rec	1	12/11/2022 6:50:16 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	60		mg/Kg	20	12/10/2022 11:33:09 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2212231

Date Reported: 12/16/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS22-23 1ft

Project: Tony La Russa

Collection Date: 12/1/2022 11:10:00 AM

Lab ID: 2212231-023

Matrix: SOIL

Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	12/9/2022 12:29:45 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/9/2022 12:29:45 PM
Surr: DNOP	135	21-129	S	%Rec	1	12/9/2022 12:29:45 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/11/2022 7:13:50 PM
Surr: BFB	90.8	37.7-212		%Rec	1	12/11/2022 7:13:50 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	12/11/2022 7:13:50 PM
Toluene	ND	0.050		mg/Kg	1	12/11/2022 7:13:50 PM
Ethylbenzene	ND	0.050		mg/Kg	1	12/11/2022 7:13:50 PM
Xylenes, Total	ND	0.099		mg/Kg	1	12/11/2022 7:13:50 PM
Surr: 4-Bromofluorobenzene	90.4	70-130		%Rec	1	12/11/2022 7:13:50 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	230	60		mg/Kg	20	12/11/2022 12:10:22 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2212231

Date Reported: 12/16/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS22-24 1ft

Project: Tony La Russa

Collection Date: 12/1/2022 11:15:00 AM

Lab ID: 2212231-024

Matrix: SOIL

Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	12/9/2022 12:40:26 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	12/9/2022 12:40:26 PM
Surr: DNOP	120	21-129		%Rec	1	12/9/2022 12:40:26 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/11/2022 7:37:23 PM
Surr: BFB	87.9	37.7-212		%Rec	1	12/11/2022 7:37:23 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	12/11/2022 7:37:23 PM
Toluene	ND	0.049		mg/Kg	1	12/11/2022 7:37:23 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/11/2022 7:37:23 PM
Xylenes, Total	ND	0.097		mg/Kg	1	12/11/2022 7:37:23 PM
Surr: 4-Bromofluorobenzene	88.3	70-130		%Rec	1	12/11/2022 7:37:23 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	170	59		mg/Kg	20	12/11/2022 12:22:46 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2212231

Date Reported: 12/16/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS22-25 1ft

Project: Tony La Russa

Collection Date: 12/1/2022 11:20:00 AM

Lab ID: 2212231-025

Matrix: SOIL

Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	12/9/2022 12:51:02 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	12/9/2022 12:51:02 PM
Surr: DNOP	116	21-129		%Rec	1	12/9/2022 12:51:02 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/11/2022 8:00:59 PM
Surr: BFB	88.9	37.7-212		%Rec	1	12/11/2022 8:00:59 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	12/11/2022 8:00:59 PM
Toluene	ND	0.049		mg/Kg	1	12/11/2022 8:00:59 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/11/2022 8:00:59 PM
Xylenes, Total	ND	0.098		mg/Kg	1	12/11/2022 8:00:59 PM
Surr: 4-Bromofluorobenzene	89.0	70-130		%Rec	1	12/11/2022 8:00:59 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	60		mg/Kg	20	12/12/2022 11:02:18 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2212231

Date Reported: 12/16/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS22-26 1ft

Project: Tony La Russa

Collection Date: 12/1/2022 11:25:00 AM

Lab ID: 2212231-026

Matrix: SOIL

Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	12/9/2022 1:01:39 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	12/9/2022 1:01:39 PM
Surr: DNOP	115	21-129		%Rec	1	12/9/2022 1:01:39 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/11/2022 8:24:32 PM
Surr: BFB	88.0	37.7-212		%Rec	1	12/11/2022 8:24:32 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	12/11/2022 8:24:32 PM
Toluene	ND	0.049		mg/Kg	1	12/11/2022 8:24:32 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/11/2022 8:24:32 PM
Xylenes, Total	ND	0.098		mg/Kg	1	12/11/2022 8:24:32 PM
Surr: 4-Bromofluorobenzene	87.9	70-130		%Rec	1	12/11/2022 8:24:32 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	60		mg/Kg	20	12/12/2022 11:14:39 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2212231

Date Reported: 12/16/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS22-27 1ft

Project: Tony La Russa

Collection Date: 12/1/2022 11:30:00 AM

Lab ID: 2212231-027

Matrix: SOIL

Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	12/9/2022 1:12:20 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	12/9/2022 1:12:20 PM
Surr: DNOP	120	21-129		%Rec	1	12/9/2022 1:12:20 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/11/2022 9:34:46 PM
Surr: BFB	88.3	37.7-212		%Rec	1	12/11/2022 9:34:46 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	12/11/2022 9:34:46 PM
Toluene	ND	0.049		mg/Kg	1	12/11/2022 9:34:46 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/11/2022 9:34:46 PM
Xylenes, Total	ND	0.099		mg/Kg	1	12/11/2022 9:34:46 PM
Surr: 4-Bromofluorobenzene	89.1	70-130		%Rec	1	12/11/2022 9:34:46 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	400	60		mg/Kg	20	12/12/2022 11:27:00 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212231

Date Reported: 12/16/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS22-28 1ft

Project: Tony La Russa

Collection Date: 12/1/2022 11:35:00 AM

Lab ID: 2212231-028

Matrix: SOIL

Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/9/2022 1:22:59 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/9/2022 1:22:59 PM
Surr: DNOP	112	21-129		%Rec	1	12/9/2022 1:22:59 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/11/2022 9:58:15 PM
Surr: BFB	86.9	37.7-212		%Rec	1	12/11/2022 9:58:15 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	12/11/2022 9:58:15 PM
Toluene	ND	0.049		mg/Kg	1	12/11/2022 9:58:15 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/11/2022 9:58:15 PM
Xylenes, Total	ND	0.098		mg/Kg	1	12/11/2022 9:58:15 PM
Surr: 4-Bromofluorobenzene	87.1	70-130		%Rec	1	12/11/2022 9:58:15 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	270	60		mg/Kg	20	12/12/2022 11:39:21 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2212231

Date Reported: 12/16/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS22-29 1ft

Project: Tony La Russa

Collection Date: 12/1/2022 11:40:00 AM

Lab ID: 2212231-029

Matrix: SOIL

Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/9/2022 1:36:16 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/9/2022 1:36:16 PM
Surr: DNOP	115	21-129		%Rec	1	12/9/2022 1:36:16 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/11/2022 10:21:48 PM
Surr: BFB	88.0	37.7-212		%Rec	1	12/11/2022 10:21:48 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	12/11/2022 10:21:48 PM
Toluene	ND	0.049		mg/Kg	1	12/11/2022 10:21:48 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/11/2022 10:21:48 PM
Xylenes, Total	ND	0.099		mg/Kg	1	12/11/2022 10:21:48 PM
Surr: 4-Bromofluorobenzene	87.8	70-130		%Rec	1	12/11/2022 10:21:48 PM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	180	61		mg/Kg	20	12/12/2022 11:31:55 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212231

Date Reported: 12/16/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS22-30 1ft

Project: Tony La Russa

Collection Date: 12/1/2022 11:45:00 AM

Lab ID: 2212231-030

Matrix: SOIL

Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	12/9/2022 1:57:29 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/9/2022 1:57:29 PM
Surr: DNOP	121	21-129		%Rec	1	12/9/2022 1:57:29 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/11/2022 10:45:14 PM
Surr: BFB	88.4	37.7-212		%Rec	1	12/11/2022 10:45:14 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	12/11/2022 10:45:14 PM
Toluene	ND	0.048		mg/Kg	1	12/11/2022 10:45:14 PM
Ethylbenzene	ND	0.048		mg/Kg	1	12/11/2022 10:45:14 PM
Xylenes, Total	ND	0.097		mg/Kg	1	12/11/2022 10:45:14 PM
Surr: 4-Bromofluorobenzene	88.6	70-130		%Rec	1	12/11/2022 10:45:14 PM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	110	60		mg/Kg	20	12/12/2022 11:44:19 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212231

Date Reported: 12/16/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS22-31 1ft

Project: Tony La Russa

Collection Date: 12/1/2022 11:50:00 AM

Lab ID: 2212231-031

Matrix: SOIL

Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	12/9/2022 2:08:11 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	12/9/2022 2:08:11 PM
Surr: DNOP	121	21-129		%Rec	1	12/9/2022 2:08:11 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/11/2022 11:08:41 PM
Surr: BFB	87.5	37.7-212		%Rec	1	12/11/2022 11:08:41 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	12/11/2022 11:08:41 PM
Toluene	ND	0.050		mg/Kg	1	12/11/2022 11:08:41 PM
Ethylbenzene	ND	0.050		mg/Kg	1	12/11/2022 11:08:41 PM
Xylenes, Total	ND	0.10		mg/Kg	1	12/11/2022 11:08:41 PM
Surr: 4-Bromofluorobenzene	87.9	70-130		%Rec	1	12/11/2022 11:08:41 PM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	110	60		mg/Kg	20	12/12/2022 11:56:44 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2212231

Date Reported: 12/16/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS22-32 1ft

Project: Tony La Russa

Collection Date: 12/1/2022 11:55:00 AM

Lab ID: 2212231-032

Matrix: SOIL

Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	12/9/2022 2:18:53 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/9/2022 2:18:53 PM
Surr: DNOP	121	21-129		%Rec	1	12/9/2022 2:18:53 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/11/2022 11:32:05 PM
Surr: BFB	86.6	37.7-212		%Rec	1	12/11/2022 11:32:05 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	12/11/2022 11:32:05 PM
Toluene	ND	0.049		mg/Kg	1	12/11/2022 11:32:05 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/11/2022 11:32:05 PM
Xylenes, Total	ND	0.097		mg/Kg	1	12/11/2022 11:32:05 PM
Surr: 4-Bromofluorobenzene	85.6	70-130		%Rec	1	12/11/2022 11:32:05 PM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	ND	60		mg/Kg	20	12/13/2022 12:58:45 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2212231

Date Reported: 12/16/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS22-33 1ft

Project: Tony La Russa

Collection Date: 12/1/2022 12:00:00 PM

Lab ID: 2212231-033

Matrix: SOIL

Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/9/2022 2:29:34 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/9/2022 2:29:34 PM
Surr: DNOP	121	21-129		%Rec	1	12/9/2022 2:29:34 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/11/2022 11:55:28 PM
Surr: BFB	88.0	37.7-212		%Rec	1	12/11/2022 11:55:28 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	12/11/2022 11:55:28 PM
Toluene	ND	0.049		mg/Kg	1	12/11/2022 11:55:28 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/11/2022 11:55:28 PM
Xylenes, Total	ND	0.098		mg/Kg	1	12/11/2022 11:55:28 PM
Surr: 4-Bromofluorobenzene	88.0	70-130		%Rec	1	12/11/2022 11:55:28 PM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	160	60		mg/Kg	20	12/13/2022 1:35:58 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212231

Date Reported: 12/16/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS22-34 1ft

Project: Tony La Russa

Collection Date: 12/1/2022 12:05:00 PM

Lab ID: 2212231-034

Matrix: SOIL

Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/9/2022 2:40:27 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/9/2022 2:40:27 PM
Surr: DNOP	122	21-129		%Rec	1	12/9/2022 2:40:27 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/12/2022 12:18:51 AM
Surr: BFB	87.8	37.7-212		%Rec	1	12/12/2022 12:18:51 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	12/12/2022 12:18:51 AM
Toluene	ND	0.049		mg/Kg	1	12/12/2022 12:18:51 AM
Ethylbenzene	ND	0.049		mg/Kg	1	12/12/2022 12:18:51 AM
Xylenes, Total	ND	0.097		mg/Kg	1	12/12/2022 12:18:51 AM
Surr: 4-Bromofluorobenzene	87.7	70-130		%Rec	1	12/12/2022 12:18:51 AM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	ND	60		mg/Kg	20	12/13/2022 1:48:22 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212231

Date Reported: 12/16/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS22-35 1ft

Project: Tony La Russa

Collection Date: 12/1/2022 12:10:00 PM

Lab ID: 2212231-035

Matrix: SOIL

Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/9/2022 2:51:16 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/9/2022 2:51:16 PM
Surr: DNOP	121	21-129		%Rec	1	12/9/2022 2:51:16 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/12/2022 12:42:11 AM
Surr: BFB	88.1	37.7-212		%Rec	1	12/12/2022 12:42:11 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	12/12/2022 12:42:11 AM
Toluene	ND	0.049		mg/Kg	1	12/12/2022 12:42:11 AM
Ethylbenzene	ND	0.049		mg/Kg	1	12/12/2022 12:42:11 AM
Xylenes, Total	ND	0.099		mg/Kg	1	12/12/2022 12:42:11 AM
Surr: 4-Bromofluorobenzene	88.2	70-130		%Rec	1	12/12/2022 12:42:11 AM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	ND	60		mg/Kg	20	12/13/2022 2:00:47 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2212231

Date Reported: 12/16/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS22-36 1ft

Project: Tony La Russa

Collection Date: 12/1/2022 12:15:00 PM

Lab ID: 2212231-036

Matrix: SOIL

Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/9/2022 3:02:07 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/9/2022 3:02:07 PM
Surr: DNOP	122	21-129		%Rec	1	12/9/2022 3:02:07 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/12/2022 1:05:31 AM
Surr: BFB	86.5	37.7-212		%Rec	1	12/12/2022 1:05:31 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	12/12/2022 1:05:31 AM
Toluene	ND	0.050		mg/Kg	1	12/12/2022 1:05:31 AM
Ethylbenzene	ND	0.050		mg/Kg	1	12/12/2022 1:05:31 AM
Xylenes, Total	ND	0.10		mg/Kg	1	12/12/2022 1:05:31 AM
Surr: 4-Bromofluorobenzene	87.3	70-130		%Rec	1	12/12/2022 1:05:31 AM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	160	60		mg/Kg	20	12/13/2022 2:13:12 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2212231

Date Reported: 12/16/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS22-37 1ft

Project: Tony La Russa

Collection Date: 12/1/2022 12:20:00 PM

Lab ID: 2212231-037

Matrix: SOIL

Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/9/2022 3:12:58 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/9/2022 3:12:58 PM
Surr: DNOP	117	21-129		%Rec	1	12/9/2022 3:12:58 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/12/2022 1:52:07 AM
Surr: BFB	85.7	37.7-212		%Rec	1	12/12/2022 1:52:07 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	12/12/2022 1:52:07 AM
Toluene	ND	0.049		mg/Kg	1	12/12/2022 1:52:07 AM
Ethylbenzene	ND	0.049		mg/Kg	1	12/12/2022 1:52:07 AM
Xylenes, Total	ND	0.098		mg/Kg	1	12/12/2022 1:52:07 AM
Surr: 4-Bromofluorobenzene	85.9	70-130		%Rec	1	12/12/2022 1:52:07 AM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	180	60		mg/Kg	20	12/13/2022 2:25:36 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212231

Date Reported: 12/16/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS22-38 1ft

Project: Tony La Russa

Collection Date: 12/1/2022 12:25:00 PM

Lab ID: 2212231-038

Matrix: SOIL

Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/12/2022 6:46:47 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/12/2022 6:46:47 PM
Surr: DNOP	106	21-129		%Rec	1	12/12/2022 6:46:47 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/12/2022 2:15:25 AM
Surr: BFB	86.3	37.7-212		%Rec	1	12/12/2022 2:15:25 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	12/12/2022 2:15:25 AM
Toluene	ND	0.048		mg/Kg	1	12/12/2022 2:15:25 AM
Ethylbenzene	ND	0.048		mg/Kg	1	12/12/2022 2:15:25 AM
Xylenes, Total	ND	0.097		mg/Kg	1	12/12/2022 2:15:25 AM
Surr: 4-Bromofluorobenzene	87.4	70-130		%Rec	1	12/12/2022 2:15:25 AM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	ND	60		mg/Kg	20	12/13/2022 3:02:49 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212231

Date Reported: 12/16/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS22-39 1ft

Project: Tony La Russa

Collection Date: 12/1/2022 12:30:00 PM

Lab ID: 2212231-039

Matrix: SOIL

Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/12/2022 9:25:46 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/12/2022 9:25:46 AM
Surr: DNOP	118	21-129		%Rec	1	12/12/2022 9:25:46 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/12/2022 9:57:10 AM
Surr: BFB	90.5	37.7-212		%Rec	1	12/12/2022 9:57:10 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	12/12/2022 9:57:10 AM
Toluene	ND	0.049		mg/Kg	1	12/12/2022 9:57:10 AM
Ethylbenzene	ND	0.049		mg/Kg	1	12/12/2022 9:57:10 AM
Xylenes, Total	ND	0.099		mg/Kg	1	12/12/2022 9:57:10 AM
Surr: 4-Bromofluorobenzene	89.0	70-130		%Rec	1	12/12/2022 9:57:10 AM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	ND	60		mg/Kg	20	12/13/2022 3:15:13 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212231

Date Reported: 12/16/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS22-40 1ft

Project: Tony La Russa

Collection Date: 12/1/2022 12:35:00 PM

Lab ID: 2212231-040

Matrix: SOIL

Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	12/12/2022 9:36:12 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/12/2022 9:36:12 AM
Surr: DNOP	121	21-129		%Rec	1	12/12/2022 9:36:12 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/12/2022 11:07:57 AM
Surr: BFB	91.3	37.7-212		%Rec	1	12/12/2022 11:07:57 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	12/12/2022 11:07:57 AM
Toluene	ND	0.050		mg/Kg	1	12/12/2022 11:07:57 AM
Ethylbenzene	ND	0.050		mg/Kg	1	12/12/2022 11:07:57 AM
Xylenes, Total	ND	0.099		mg/Kg	1	12/12/2022 11:07:57 AM
Surr: 4-Bromofluorobenzene	87.2	70-130		%Rec	1	12/12/2022 11:07:57 AM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	ND	61		mg/Kg	20	12/13/2022 3:27:37 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212231

Date Reported: 12/16/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS22-41 1ft

Project: Tony La Russa

Collection Date: 12/1/2022 12:40:00 PM

Lab ID: 2212231-041

Matrix: SOIL

Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/12/2022 9:46:45 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/12/2022 9:46:45 AM
Surr: DNOP	120	21-129		%Rec	1	12/12/2022 9:46:45 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/12/2022 12:18:34 PM
Surr: BFB	90.6	37.7-212		%Rec	1	12/12/2022 12:18:34 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	12/12/2022 12:18:34 PM
Toluene	ND	0.049		mg/Kg	1	12/12/2022 12:18:34 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/12/2022 12:18:34 PM
Xylenes, Total	ND	0.097		mg/Kg	1	12/12/2022 12:18:34 PM
Surr: 4-Bromofluorobenzene	88.6	70-130		%Rec	1	12/12/2022 12:18:34 PM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	ND	60		mg/Kg	20	12/13/2022 3:40:02 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212231

Date Reported: 12/16/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS22-42 1ft

Project: Tony La Russa

Collection Date: 12/1/2022 12:45:00 PM

Lab ID: 2212231-042

Matrix: SOIL

Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/12/2022 9:57:17 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/12/2022 9:57:17 AM
Surr: DNOP	117	21-129		%Rec	1	12/12/2022 9:57:17 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/12/2022 12:42:19 PM
Surr: BFB	88.6	37.7-212		%Rec	1	12/12/2022 12:42:19 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	12/12/2022 12:42:19 PM
Toluene	ND	0.049		mg/Kg	1	12/12/2022 12:42:19 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/12/2022 12:42:19 PM
Xylenes, Total	ND	0.098		mg/Kg	1	12/12/2022 12:42:19 PM
Surr: 4-Bromofluorobenzene	86.3	70-130		%Rec	1	12/12/2022 12:42:19 PM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	ND	61		mg/Kg	20	12/13/2022 3:52:26 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2212231

Date Reported: 12/16/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS22-43 1ft

Project: Tony La Russa

Collection Date: 12/1/2022 12:50:00 PM

Lab ID: 2212231-043

Matrix: SOIL

Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/12/2022 10:07:51 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/12/2022 10:07:51 AM
Surr: DNOP	136	21-129	S	%Rec	1	12/12/2022 10:07:51 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/12/2022 1:05:56 PM
Surr: BFB	86.4	37.7-212		%Rec	1	12/12/2022 1:05:56 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	12/12/2022 1:05:56 PM
Toluene	ND	0.048		mg/Kg	1	12/12/2022 1:05:56 PM
Ethylbenzene	ND	0.048		mg/Kg	1	12/12/2022 1:05:56 PM
Xylenes, Total	ND	0.097		mg/Kg	1	12/12/2022 1:05:56 PM
Surr: 4-Bromofluorobenzene	83.6	70-130		%Rec	1	12/12/2022 1:05:56 PM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	ND	60		mg/Kg	20	12/13/2022 4:04:50 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2212231

Date Reported: 12/16/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS22-44 1ft

Project: Tony La Russa

Collection Date: 12/1/2022 12:55:00 PM

Lab ID: 2212231-044

Matrix: SOIL

Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/12/2022 10:18:24 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/12/2022 10:18:24 AM
Surr: DNOP	120	21-129		%Rec	1	12/12/2022 10:18:24 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/12/2022 1:29:22 PM
Surr: BFB	89.4	37.7-212		%Rec	1	12/12/2022 1:29:22 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	12/12/2022 1:29:22 PM
Toluene	ND	0.049		mg/Kg	1	12/12/2022 1:29:22 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/12/2022 1:29:22 PM
Xylenes, Total	ND	0.097		mg/Kg	1	12/12/2022 1:29:22 PM
Surr: 4-Bromofluorobenzene	86.5	70-130		%Rec	1	12/12/2022 1:29:22 PM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	ND	60		mg/Kg	20	12/13/2022 4:17:15 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212231

Date Reported: 12/16/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS22-45 1ft

Project: Tony La Russa

Collection Date: 12/1/2022 1:00:00 PM

Lab ID: 2212231-045

Matrix: SOIL

Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	12/12/2022 10:32:55 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/12/2022 10:32:55 AM
Surr: DNOP	138	21-129	S	%Rec	1	12/12/2022 10:32:55 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/12/2022 1:52:45 PM
Surr: BFB	92.0	37.7-212		%Rec	1	12/12/2022 1:52:45 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	12/12/2022 1:52:45 PM
Toluene	ND	0.049		mg/Kg	1	12/12/2022 1:52:45 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/12/2022 1:52:45 PM
Xylenes, Total	ND	0.098		mg/Kg	1	12/12/2022 1:52:45 PM
Surr: 4-Bromofluorobenzene	90.1	70-130		%Rec	1	12/12/2022 1:52:45 PM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	ND	60		mg/Kg	20	12/13/2022 4:29:39 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212231

Date Reported: 12/16/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS22-46 1ft

Project: Tony La Russa

Collection Date: 12/1/2022 1:05:00 PM

Lab ID: 2212231-046

Matrix: SOIL

Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/12/2022 10:43:26 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/12/2022 10:43:26 AM
Surr: DNOP	122	21-129		%Rec	1	12/12/2022 10:43:26 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/12/2022 2:16:23 PM
Surr: BFB	87.5	37.7-212		%Rec	1	12/12/2022 2:16:23 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	12/12/2022 2:16:23 PM
Toluene	ND	0.050		mg/Kg	1	12/12/2022 2:16:23 PM
Ethylbenzene	ND	0.050		mg/Kg	1	12/12/2022 2:16:23 PM
Xylenes, Total	ND	0.10		mg/Kg	1	12/12/2022 2:16:23 PM
Surr: 4-Bromofluorobenzene	86.0	70-130		%Rec	1	12/12/2022 2:16:23 PM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	ND	59		mg/Kg	20	12/13/2022 4:42:03 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212231

Date Reported: 12/16/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS22-47 1ft

Project: Tony La Russa

Collection Date: 12/1/2022 1:10:00 PM

Lab ID: 2212231-047

Matrix: SOIL

Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/12/2022 11:04:33 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/12/2022 11:04:33 AM
Surr: DNOP	119	21-129		%Rec	1	12/12/2022 11:04:33 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/12/2022 2:39:59 PM
Surr: BFB	90.6	37.7-212		%Rec	1	12/12/2022 2:39:59 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	12/12/2022 2:39:59 PM
Toluene	ND	0.050		mg/Kg	1	12/12/2022 2:39:59 PM
Ethylbenzene	ND	0.050		mg/Kg	1	12/12/2022 2:39:59 PM
Xylenes, Total	ND	0.10		mg/Kg	1	12/12/2022 2:39:59 PM
Surr: 4-Bromofluorobenzene	87.9	70-130		%Rec	1	12/12/2022 2:39:59 PM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	ND	60		mg/Kg	20	12/13/2022 10:12:58 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2212231

Date Reported: 12/16/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS22-48 1ft

Project: Tony La Russa

Collection Date: 12/1/2022 1:15:00 PM

Lab ID: 2212231-048

Matrix: SOIL

Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	12/12/2022 11:15:13 AM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	12/12/2022 11:15:13 AM
Surr: DNOP	127	21-129		%Rec	1	12/12/2022 11:15:13 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/12/2022 3:03:37 PM
Surr: BFB	88.1	37.7-212		%Rec	1	12/12/2022 3:03:37 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	12/12/2022 3:03:37 PM
Toluene	ND	0.050		mg/Kg	1	12/12/2022 3:03:37 PM
Ethylbenzene	ND	0.050		mg/Kg	1	12/12/2022 3:03:37 PM
Xylenes, Total	ND	0.10		mg/Kg	1	12/12/2022 3:03:37 PM
Surr: 4-Bromofluorobenzene	85.7	70-130		%Rec	1	12/12/2022 3:03:37 PM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	ND	60		mg/Kg	20	12/13/2022 10:25:22 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212231

Date Reported: 12/16/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS22-49 1ft

Project: Tony La Russa

Collection Date: 12/1/2022 1:20:00 PM

Lab ID: 2212231-049

Matrix: SOIL

Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/12/2022 11:25:51 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/12/2022 11:25:51 AM
Surr: DNOP	123	21-129		%Rec	1	12/12/2022 11:25:51 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/12/2022 4:14:28 PM
Surr: BFB	89.5	37.7-212		%Rec	1	12/12/2022 4:14:28 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	12/12/2022 4:14:28 PM
Toluene	ND	0.050		mg/Kg	1	12/12/2022 4:14:28 PM
Ethylbenzene	ND	0.050		mg/Kg	1	12/12/2022 4:14:28 PM
Xylenes, Total	ND	0.10		mg/Kg	1	12/12/2022 4:14:28 PM
Surr: 4-Bromofluorobenzene	87.1	70-130		%Rec	1	12/12/2022 4:14:28 PM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	ND	60		mg/Kg	20	12/13/2022 10:37:47 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2212231

Date Reported: 12/16/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS22-50 1ft

Project: Tony La Russa

Collection Date: 12/1/2022 1:25:00 PM

Lab ID: 2212231-050

Matrix: SOIL

Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/12/2022 11:36:29 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/12/2022 11:36:29 AM
Surr: DNOP	103	21-129		%Rec	1	12/12/2022 11:36:29 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/12/2022 4:38:10 PM
Surr: BFB	89.8	37.7-212		%Rec	1	12/12/2022 4:38:10 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	12/12/2022 4:38:10 PM
Toluene	ND	0.049		mg/Kg	1	12/12/2022 4:38:10 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/12/2022 4:38:10 PM
Xylenes, Total	ND	0.099		mg/Kg	1	12/12/2022 4:38:10 PM
Surr: 4-Bromofluorobenzene	87.7	70-130		%Rec	1	12/12/2022 4:38:10 PM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	ND	60		mg/Kg	20	12/13/2022 10:50:13 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2212231

Date Reported: 12/16/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS22-51 1ft

Project: Tony La Russa

Collection Date: 12/1/2022 1:30:00 PM

Lab ID: 2212231-051

Matrix: SOIL

Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	12/12/2022 11:47:06 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/12/2022 11:47:06 AM
Surr: DNOP	119	21-129		%Rec	1	12/12/2022 11:47:06 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/12/2022 5:01:46 PM
Surr: BFB	90.4	37.7-212		%Rec	1	12/12/2022 5:01:46 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	12/12/2022 5:01:46 PM
Toluene	ND	0.049		mg/Kg	1	12/12/2022 5:01:46 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/12/2022 5:01:46 PM
Xylenes, Total	ND	0.099		mg/Kg	1	12/12/2022 5:01:46 PM
Surr: 4-Bromofluorobenzene	88.1	70-130		%Rec	1	12/12/2022 5:01:46 PM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	ND	60		mg/Kg	20	12/13/2022 11:02:38 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2212231

Date Reported: 12/16/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS22-52 1ft

Project: Tony La Russa

Collection Date: 12/1/2022 1:35:00 PM

Lab ID: 2212231-052

Matrix: SOIL

Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/12/2022 11:57:42 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/12/2022 11:57:42 AM
Surr: DNOP	116	21-129		%Rec	1	12/12/2022 11:57:42 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/12/2022 5:25:24 PM
Surr: BFB	92.5	37.7-212		%Rec	1	12/12/2022 5:25:24 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	12/12/2022 5:25:24 PM
Toluene	ND	0.050		mg/Kg	1	12/12/2022 5:25:24 PM
Ethylbenzene	ND	0.050		mg/Kg	1	12/12/2022 5:25:24 PM
Xylenes, Total	ND	0.10		mg/Kg	1	12/12/2022 5:25:24 PM
Surr: 4-Bromofluorobenzene	90.2	70-130		%Rec	1	12/12/2022 5:25:24 PM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	76	60		mg/Kg	20	12/13/2022 11:39:52 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2212231

Date Reported: 12/16/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS22-53 1ft

Project: Tony La Russa

Collection Date: 12/1/2022 1:40:00 PM

Lab ID: 2212231-053

Matrix: SOIL

Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/12/2022 12:08:29 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/12/2022 12:08:29 PM
Surr: DNOP	120	21-129		%Rec	1	12/12/2022 12:08:29 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/12/2022 5:48:51 PM
Surr: BFB	89.4	37.7-212		%Rec	1	12/12/2022 5:48:51 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	12/12/2022 5:48:51 PM
Toluene	ND	0.049		mg/Kg	1	12/12/2022 5:48:51 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/12/2022 5:48:51 PM
Xylenes, Total	ND	0.097		mg/Kg	1	12/12/2022 5:48:51 PM
Surr: 4-Bromofluorobenzene	87.9	70-130		%Rec	1	12/12/2022 5:48:51 PM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	91	60		mg/Kg	20	12/13/2022 11:52:17 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2212231

Date Reported: 12/16/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS22-54 1ft

Project: Tony La Russa

Collection Date: 12/1/2022 1:45:00 PM

Lab ID: 2212231-054

Matrix: SOIL

Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/12/2022 12:19:10 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/12/2022 12:19:10 PM
Surr: DNOP	118	21-129		%Rec	1	12/12/2022 12:19:10 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/12/2022 6:12:24 PM
Surr: BFB	90.8	37.7-212		%Rec	1	12/12/2022 6:12:24 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	12/12/2022 6:12:24 PM
Toluene	ND	0.048		mg/Kg	1	12/12/2022 6:12:24 PM
Ethylbenzene	ND	0.048		mg/Kg	1	12/12/2022 6:12:24 PM
Xylenes, Total	ND	0.097		mg/Kg	1	12/12/2022 6:12:24 PM
Surr: 4-Bromofluorobenzene	89.9	70-130		%Rec	1	12/12/2022 6:12:24 PM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	97	60		mg/Kg	20	12/13/2022 12:04:42 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2212231

Date Reported: 12/16/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS22-55 1ft

Project: Tony La Russa

Collection Date: 12/1/2022 1:50:00 PM

Lab ID: 2212231-055

Matrix: SOIL

Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/12/2022 12:29:58 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/12/2022 12:29:58 PM
Surr: DNOP	118	21-129		%Rec	1	12/12/2022 12:29:58 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/12/2022 6:36:00 PM
Surr: BFB	88.9	37.7-212		%Rec	1	12/12/2022 6:36:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	12/12/2022 6:36:00 PM
Toluene	ND	0.049		mg/Kg	1	12/12/2022 6:36:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/12/2022 6:36:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	12/12/2022 6:36:00 PM
Surr: 4-Bromofluorobenzene	87.2	70-130		%Rec	1	12/12/2022 6:36:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	ND	60		mg/Kg	20	12/13/2022 12:17:06 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2212231

16-Dec-22

Client: Vertex Resources Services, Inc.**Project:** Tony La Russa

Sample ID: MB-72008	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 72008	RunNo: 93188								
Prep Date: 12/10/2022	Analysis Date: 12/10/2022	SeqNo: 3357721 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-72008	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 72008	RunNo: 93188								
Prep Date: 12/10/2022	Analysis Date: 12/10/2022	SeqNo: 3357722 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	98.1	90	110			

Sample ID: MB-72009	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 72009	RunNo: 93188								
Prep Date: 12/10/2022	Analysis Date: 12/10/2022	SeqNo: 3357751 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-72009	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 72009	RunNo: 93188								
Prep Date: 12/10/2022	Analysis Date: 12/10/2022	SeqNo: 3357752 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.2	90	110			

Sample ID: MB-72016	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 72016	RunNo: 93222								
Prep Date: 12/12/2022	Analysis Date: 12/12/2022	SeqNo: 3359734 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-72016	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 72016	RunNo: 93222								
Prep Date: 12/12/2022	Analysis Date: 12/12/2022	SeqNo: 3359735 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.0	90	110			

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 Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2212231

16-Dec-22

Client: Vertex Resources Services, Inc.**Project:** Tony La Russa

Sample ID: MB-72032		SampType: MBLK			TestCode: EPA Method 300.0: Anions					
Client ID: PBS		Batch ID: 72032			RunNo: 93223					
Prep Date: 12/12/2022		Analysis Date: 12/12/2022			SeqNo: 3359885		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-72032		SampType: LCS			TestCode: EPA Method 300.0: Anions					
Client ID: LCSS		Batch ID: 72032			RunNo: 93223					
Prep Date: 12/12/2022		Analysis Date: 12/12/2022			SeqNo: 3359887		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.4	90	110			

Sample ID: 2212231-032AMSD		SampType: MSD		TestCode: EPA Method 300.0: Anions						
Client ID: BS22-32 1ft		Batch ID: 72032		RunNo: 93223						
Prep Date: 12/12/2022		Analysis Date: 12/13/2022		SeqNo: 3359900		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	60	30.00	0	0	39.9	163	0	20	S

Sample ID: MB-72040		SampType: MBLK			TestCode: EPA Method 300.0: Anions					
Client ID: PBS		Batch ID: 72040			RunNo: 93254					
Prep Date: 12/13/2022		Analysis Date: 12/13/2022			SeqNo: 3361202		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-72040		SampType: LCS			TestCode: EPA Method 300.0: Anions					
Client ID: LCSS		Batch ID: 72040			RunNo: 93254					
Prep Date: 12/13/2022		Analysis Date: 12/13/2022			SeqNo: 3361203		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.4	90	110			

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 Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2212231

16-Dec-22

Client: Vertex Resources Services, Inc.**Project:** Tony La Russa

Sample ID: LCS-71969	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 71969	RunNo: 93160								
Prep Date: 12/8/2022	Analysis Date: 12/9/2022	SeqNo: 3356393 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	15	50.00	0	92.6	64.4	127			
Surr: DNOP	6.3		5.000		126	21	129			

Sample ID: MB-71969	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 71969	RunNo: 93160								
Prep Date: 12/8/2022	Analysis Date: 12/9/2022	SeqNo: 3356395 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	13		10.00		126	21	129			

Sample ID: 2212231-017AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BS22-17 1ft	Batch ID: 71969	RunNo: 93160								
Prep Date: 12/8/2022	Analysis Date: 12/9/2022	SeqNo: 3358469 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	14	46.38	0	95.7	36.1	154			
Surr: DNOP	5.7		4.638		124	21	129			

Sample ID: 2212231-017AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BS22-17 1ft	Batch ID: 71969	RunNo: 93160								
Prep Date: 12/8/2022	Analysis Date: 12/9/2022	SeqNo: 3358470 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	14	46.13	0	95.0	36.1	154	1.31	33.9	
Surr: DNOP	5.7		4.613		124	21	129	0	0	

Sample ID: MB-71961	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 71961	RunNo: 93161								
Prep Date: 12/8/2022	Analysis Date: 12/9/2022	SeqNo: 3358878 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		112	21	129			

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 Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2212231

16-Dec-22

Client: Vertex Resources Services, Inc.**Project:** Tony La Russa

Sample ID: LCS-71961	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 71961			RunNo: 93161						
Prep Date: 12/8/2022	Analysis Date: 12/9/2022			SeqNo: 3358879		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	54	15	50.00	0	109	64.4	127			
Surr: DNOP	5.6		5.000		111	21	129			

Sample ID: LCS-71996	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 71996			RunNo: 93225						
Prep Date: 12/9/2022	Analysis Date: 12/12/2022			SeqNo: 3360006		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	6.2		5.000		124	21	129			

Sample ID: MB-71996	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 71996			RunNo: 93225						
Prep Date: 12/9/2022	Analysis Date: 12/12/2022			SeqNo: 3360008		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	12		10.00		122	21	129			

Sample ID: LCS-71999	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 71999			RunNo: 93225						
Prep Date: 12/9/2022	Analysis Date: 12/12/2022			SeqNo: 3360523		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	15	50.00	0	95.0	64.4	127			
Surr: DNOP	5.9		5.000		119	21	129			

Sample ID: MB-71999	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 71999			RunNo: 93225						
Prep Date: 12/9/2022	Analysis Date: 12/12/2022			SeqNo: 3360524		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		112	21	129			

Sample ID: MB-71989	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 71989			RunNo: 93210						
Prep Date: 12/9/2022	Analysis Date: 12/12/2022			SeqNo: 3361735		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								

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 Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2212231

16-Dec-22

Client: Vertex Resources Services, Inc.**Project:** Tony La Russa

Sample ID: MB-71989	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 71989	RunNo: 93210								
Prep Date: 12/9/2022	Analysis Date: 12/12/2022	SeqNo: 3361735 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		108	21	129			

Sample ID: LCS-71989	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 71989	RunNo: 93210								
Prep Date: 12/9/2022	Analysis Date: 12/12/2022	SeqNo: 3361736 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	15	50.00	0	94.3	64.4	127			
Surr: DNOP	5.0		5.000		101	21	129			

Sample ID: 2212231-038AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BS22-38 1ft	Batch ID: 71989	RunNo: 93210								
Prep Date: 12/9/2022	Analysis Date: 12/12/2022	SeqNo: 3361738 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	15	48.83	0	99.4	36.1	154			
Surr: DNOP	5.2		4.883		107	21	129			

Sample ID: 2212231-038AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BS22-38 1ft	Batch ID: 71989	RunNo: 93210								
Prep Date: 12/9/2022	Analysis Date: 12/12/2022	SeqNo: 3361739 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	14	47.21	0	104	36.1	154	1.39	33.9	
Surr: DNOP	5.1		4.721		109	21	129	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 Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2212231

16-Dec-22

Client: Vertex Resources Services, Inc.**Project:** Tony La Russa

Sample ID: mb-71949	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 71949			RunNo: 93182						
Prep Date: 12/8/2022	Analysis Date: 12/11/2022			SeqNo: 3357386		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	910		1000		90.8	37.7	212			

Sample ID: lcs-71949	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 71949			RunNo: 93182						
Prep Date: 12/8/2022	Analysis Date: 12/11/2022			SeqNo: 3357387		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	102	72.3	137			
Surr: BFB	1800		1000		185	37.7	212			

Sample ID: lcs-71937	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 71937			RunNo: 93186						
Prep Date: 12/8/2022	Analysis Date: 12/10/2022			SeqNo: 3358933		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	94.4	72.3	137			
Surr: BFB	2100		1000		214	37.7	212			S

Sample ID: mb-71937	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 71937			RunNo: 93186						
Prep Date: 12/8/2022	Analysis Date: 12/10/2022			SeqNo: 3358934		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	930		1000		92.6	37.7	212			

Sample ID: 2212231-019ams	SampType: MS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: BS22-19 1ft	Batch ID: 71949			RunNo: 93221						
Prep Date: 12/8/2022	Analysis Date: 12/12/2022			SeqNo: 3359679		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.8	24.18	0	89.6	70	130			
Surr: BFB	1700		967.1		178	37.7	212			

Sample ID: 2212231-019amsd	SampType: MSD			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: BS22-19 1ft	Batch ID: 71949			RunNo: 93221						
Prep Date: 12/8/2022	Analysis Date: 12/12/2022			SeqNo: 3359680		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

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 Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2212231

16-Dec-22

Client: Vertex Resources Services, Inc.**Project:** Tony La Russa

Sample ID: 2212231-019amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BS22-19 1ft	Batch ID: 71949	RunNo: 93221								
Prep Date: 12/8/2022	Analysis Date: 12/12/2022	SeqNo: 3359680 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.8	24.22	0	92.9	70	130	3.74	20	
Surr: BFB	1800		969.0		182	37.7	212	0	0	

Sample ID: 2212231-039ams	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BS22-39 1ft	Batch ID: 71958	RunNo: 93221								
Prep Date: 12/8/2022	Analysis Date: 12/12/2022	SeqNo: 3359682 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.9	24.70	0	90.7	70	130			
Surr: BFB	1700		988.1		177	37.7	212			

Sample ID: 2212231-039amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BS22-39 1ft	Batch ID: 71958	RunNo: 93221								
Prep Date: 12/8/2022	Analysis Date: 12/12/2022	SeqNo: 3359683 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.9	24.70	0	91.8	70	130	1.23	20	
Surr: BFB	1800		988.1		180	37.7	212	0	0	

Sample ID: lcs-71958	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 71958	RunNo: 93221								
Prep Date: 12/8/2022	Analysis Date: 12/12/2022	SeqNo: 3359719 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	99.8	72.3	137			
Surr: BFB	1900		1000		186	37.7	212			

Sample ID: lcs-71979	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 71979	RunNo: 93221								
Prep Date: 12/9/2022	Analysis Date: 12/12/2022	SeqNo: 3359720 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1900		1000		194	37.7	212			

Sample ID: mb-71958	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 71958	RunNo: 93221								
Prep Date: 12/8/2022	Analysis Date: 12/12/2022	SeqNo: 3359721 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								

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 Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2212231

16-Dec-22

Client: Vertex Resources Services, Inc.
Project: Tony La Russa

Sample ID: mb-71958	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 71958	RunNo: 93221								
Prep Date: 12/8/2022	Analysis Date: 12/12/2022	SeqNo: 3359721	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	880		1000		88.1	37.7	212			

Sample ID: mb-71979	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 71979	RunNo: 93221								
Prep Date: 12/9/2022	Analysis Date: 12/12/2022	SeqNo: 3359722	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	900		1000		90.4	37.7	212			

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 Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2212231

16-Dec-22

Client: Vertex Resources Services, Inc.**Project:** Tony La Russa

Sample ID: mb-71949	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 71949	RunNo: 93182								
Prep Date: 12/8/2022	Analysis Date: 12/11/2022	SeqNo: 3357414 Units: mg/Kg								
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: 4-Bromofluorobenzene	0.92		1.000		91.9	70	130			

Sample ID: LCS-71949	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 71949	RunNo: 93182								
Prep Date: 12/8/2022	Analysis Date: 12/11/2022	SeqNo: 3357415 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	91.6	80	120			
Toluene	0.93	0.050	1.000	0	92.6	80	120			
Ethylbenzene	0.93	0.050	1.000	0	92.6	80	120			
Xylenes, Total	2.8	0.10	3.000	0	93.3	80	120			
Surr: 4-Bromofluorobenzene	0.93		1.000		93.0	70	130			

Sample ID: lcs-71937	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 71937	RunNo: 93186								
Prep Date: 12/8/2022	Analysis Date: 12/10/2022	SeqNo: 3357814 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	100	80	120			
Toluene	1.0	0.050	1.000	0	101	80	120			
Ethylbenzene	1.0	0.050	1.000	0	99.9	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.7	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		100	70	130			

Sample ID: mb-71937	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 71937	RunNo: 93186								
Prep Date: 12/8/2022	Analysis Date: 12/10/2022	SeqNo: 3357815 Units: mg/Kg								
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: 4-Bromofluorobenzene	0.98		1.000		98.0	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 Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2212231

16-Dec-22

Client: Vertex Resources Services, Inc.**Project:** Tony La Russa

Sample ID: 2212231-020ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: BS22-20 1ft	Batch ID: 71949	RunNo: 93221								
Prep Date: 12/8/2022	Analysis Date: 12/12/2022	SeqNo: 3360047	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.78	0.024	0.9718	0	80.1	68.8	120			
Toluene	0.81	0.049	0.9718	0	83.8	73.6	124			
Ethylbenzene	0.81	0.049	0.9718	0	83.4	72.7	129			
Xylenes, Total	2.4	0.097	2.915	0	84.0	75.7	126			
Surr: 4-Bromofluorobenzene	0.85		0.9718		87.8	70	130			

Sample ID: 2212231-020AMSD	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: BS22-20 1ft	Batch ID: 71949	RunNo: 93221								
Prep Date: 12/8/2022	Analysis Date: 12/12/2022	SeqNo: 3360048	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.78	0.024	0.9718	0	80.1	68.8	120	0.0500	20	
Toluene	0.80	0.049	0.9718	0	81.9	73.6	124	2.20	20	
Ethylbenzene	0.80	0.049	0.9718	0	81.9	72.7	129	1.79	20	
Xylenes, Total	2.4	0.097	2.915	0	82.4	75.7	126	1.89	20	
Surr: 4-Bromofluorobenzene	0.86		0.9718		88.2	70	130	0	0	

Sample ID: 2212231-040ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: BS22-40 1ft	Batch ID: 71958	RunNo: 93221								
Prep Date: 12/8/2022	Analysis Date: 12/12/2022	SeqNo: 3360051	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.86	0.025	0.9872	0	87.1	68.8	120			
Toluene	0.88	0.049	0.9872	0	89.4	73.6	124			
Ethylbenzene	0.89	0.049	0.9872	0	90.0	72.7	129			
Xylenes, Total	2.7	0.099	2.962	0	90.6	75.7	126			
Surr: 4-Bromofluorobenzene	0.87		0.9872		88.6	70	130			

Sample ID: 2212231-040amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: BS22-40 1ft	Batch ID: 71958	RunNo: 93221								
Prep Date: 12/8/2022	Analysis Date: 12/12/2022	SeqNo: 3360052	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.83	0.025	0.9901	0	84.3	68.8	120	2.95	20	
Toluene	0.85	0.050	0.9901	0	86.3	73.6	124	3.23	20	
Ethylbenzene	0.86	0.050	0.9901	0	86.8	72.7	129	3.31	20	
Xylenes, Total	2.6	0.099	2.970	0	87.4	75.7	126	3.28	20	
Surr: 4-Bromofluorobenzene	0.89		0.9901		89.5	70	130	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 Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Page 65 of 66

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2212231

16-Dec-22

Client: Vertex Resources Services, Inc.**Project:** Tony La Russa

Sample ID: LCS-71958	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 71958			RunNo: 93221						
Prep Date: 12/8/2022	Analysis Date: 12/12/2022			SeqNo: 3360087		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	94.1	80	120			
Toluene	0.95	0.050	1.000	0	95.4	80	120			
Ethylbenzene	0.95	0.050	1.000	0	95.4	80	120			
Xylenes, Total	2.9	0.10	3.000	0	95.9	80	120			
Surr: 4-Bromofluorobenzene	0.88		1.000		88.5	70	130			

Sample ID: LCS-71979	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 71979			RunNo: 93221						
Prep Date: 12/9/2022	Analysis Date: 12/12/2022			SeqNo: 3360088		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.89		1.000		89.3	70	130			

Sample ID: mb-71958	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 71958			RunNo: 93221						
Prep Date: 12/8/2022	Analysis Date: 12/12/2022			SeqNo: 3360089		Units: mg/Kg				
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: 4-Bromofluorobenzene	0.88		1.000		88.2	70	130			

Sample ID: mb-71979	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 71979			RunNo: 93221						
Prep Date: 12/9/2022	Analysis Date: 12/12/2022			SeqNo: 3360090		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.90		1.000		89.7	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 Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit



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 Resources
Services, Inc.

Work Order Number: 2212231

RcptNo: 1

Received By: Juan Rojas

12/6/2022 7:30:00 AM

Juan Rojas

Completed By: Isaiah Ortiz

12/6/2022 10:08:59 AM

I-Ortiz

Reviewed By:

KRC 12.6.22

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐

2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐

4. Were all samples received at a temperature of >0° C to 6.0° C Yes ☒ No ☐ NA ☐

5. Sample(s) in proper container(s)? Yes ☒ No ☐

6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐

7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐

8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐

9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes ☐ No ☐ NA ☒

10. Were any sample containers received broken? Yes ☐ No ☒

11. Does paperwork match bottle labels? Yes ☒ No ☐

(Note discrepancies on chain of custody)

12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐

13. Is it clear what analyses were requested? Yes ☒ No ☐

14. Were all holding times able to be met? Yes ☒ No ☐

(If no, notify customer for authorization.)

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: *Ju 12/6/22*

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

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	0.3	Good	Not Present			
2	0.1	Good	Not Present			

Chain-of-Custody Record

Client: Naturbor Resources

Mailing Address: Onfile

Phone #: _____

email or Fax#: _____

QA/QC Package: _____

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance ☐ NELAC ☐ Other _____

☐ EDD (Type) _____

Date	Time	Matrix	Sample Name
12/1	10:20	Soil	B522-13 1ft
	10:35		B522-14 1ft
	10:40		B522-15 1ft
	10:45		B522-16 1ft
	10:50		B522-17 1ft
	10:55		B522-18 1ft
	11:00		B522-19 1ft
	11:05		B522-20 1ft
	11:10		B522-21 1ft
	11:15		B522-22 1ft
	11:20		B522-23 1ft
	11:25		B522-24 1ft

Date: 12/1 Time: 10:00 Relinquished by: [Signature]

Date: 12/1 Time: 10:00 Relinquished by: [Signature]

Turn-Around Time: ☒ Standard ☒ Rush 5 am

Project Name: Tony La Russa

Project #: VE-03804

Project Manager: Monica Reppin

Sampler: Fernando Rodriguez

On Ice: ☒ Yes ☐ No

of Coolers: 2

Cooler Temp (Including CF): 6.5-6.2 = 6.3 (°C)
6.3-6.2 = 0.1

Container Type and # 452 jar 1ce

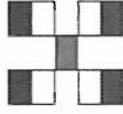
Preservative Type ICE

HEAL No. 03

Container Type and #	Preservative Type	HEAL No.
452 jar	ICE	03
		014
		015
		016
		017
		018
		019
		020
		021
		022
		023
		024

Received by: [Signature] Date: 12/5/22 Time: 1100

Received by: [Signature] Date: 12/6/22 Time: 7130



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	(C) F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
<input checked="" type="checkbox"/> BTX (M, E, P)	<input checked="" type="checkbox"/> MTBE / TMB's (8021)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Remarks: cc: Monica Reppin

Chain-of-Custody Record

Client: Notador ResourcesMailing Address: On file

Phone #: _____

email or Fax#: _____

QA/QC Package: _____

☐ Standard ☐ Level 4 (Full Validation)Accreditation: ☐ Az Compliance☐ NELAC ☐ Other _____☐ EDD (Type) _____

Turn-Around Time: _____

☒ Standard ☐ Rush

Project Name: _____

Project #: Taylor RussaProject #: UE-03804

Project Manager: _____

Project Manager: Monica PeppinSampler: Fernando RodriguezOn Ice: ☒ Yes ☐ No# of Coolers: 2Cooler Temp (including CF): See Remarks (°C)

Container Type and #

Preservative Type

HEAL No.

Date

Time

Matrix

Sample Name

Date

Time

Matrix

Sample Name

Date

Time

Matrix

Sample Name

Date

Time

Matrix

Sample Name

Date

Time

Matrix

Sample Name

Date

Time

Matrix

Sample Name

Date

Time

Relinquished by: _____

Date

Time

Relinquished by: _____

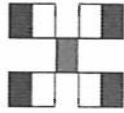
Date

Time

Relinquished by: _____

Date

Time



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

TPH:8015D(GRO / DRO / MRO)

8081 Pesticides/8082 PCB's

EDB (Method 504.1)

PAHs by 8310 or 8270SIMS

RCRA 8 Metals

Cl⁻, F⁻, Br⁻, NO₃⁻, NO₂⁻, PO₄³⁻, SO₄²⁻

8260 (VOA)

8270 (Semi-VOA)

Total Coliform (Present/Absent)

BTX's MTBE / TMB's (8021)

TPH:8015D(GRO / DRO / MRO)

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EDB (Method 504.1)

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EDB (Method 504.1)

PAHs by 8310 or 8270SIMS

RCRA 8 Metals

Cl⁻, F⁻, Br⁻, NO₃⁻, NO₂⁻, PO₄³⁻, SO₄²⁻

8260 (VOA)

8270 (Semi-VOA)

Total Coliform (Present/Absent)

Remarks:

CC: Monica Peppin

05-02-2023

03-02-2023

JW 12/12/22

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Released to Imaging: 5/24/2023 10:57:37 AM

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 180093

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 180093
	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 #NAPP2230454572 TONY LA RUSSA STATE TANK BATTERY, thank you. This closure is approved.	5/24/2023