

May 24, 2021 Vertex Project #: 21E-00087-006

Spill Closure Report: Dinero State #005

Unit G, Section 16, Township 22 South, Range 28 East

County: Eddy

NMOCD Tracking Number: nAPP2105530312

Prepared For: Matador Production Company

5400 Lyndon B Johnson Freeway

Suite 1500

Dallas, Texas 75240

New Mexico Oil Conservation Division - District 2 - Artesia

811 South First Street

Artesia, New Mexico 88210

Matador Production Company (Matador) retained Vertex Resource Services Inc. (Vertex) to conduct a spill assessment and remediation for a produced water release that occurred on February 23, 2021, at Dinero State #005 (hereafter referred to as "Dinero". Matador provided notification of the spill to New Mexico Oil Conservation Division (NMOCD) District 2 and the Bureau of Land Management (BLM), who own the land, via submission of an initial C-141 Release Notification (Attachment 1) on February 23, 2021. The NMOCD tracking number assigned to this incident is nAPP2105530312.

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

Incident Description

On February 23, 2021, a release occurred at Matador's Dinero site when a ball valve cracked from freezing on the load line. This incident resulted in the release of approximately 22.5 barrels (bbls) of produced water onto the engineered pad. No produced water was recovered. The spill was contained within the boundaries of the engineered pad. No produced water was released into undisturbed areas or waterways.

Site Characterization

The release at Dinero occurred on state-owned land, N 32.394291, W 104.090563, approximately 8 miles east of Carlsbad, New Mexico. The legal description for the site is Unit G, Section 16, Township 22 South, Range 28 East, Eddy County, New Mexico. This location is within the Permian Basin in southeast New Mexico and has historically been used for oil and gas exploration and production, and rangeland. An aerial photograph and site schematic are included in Attachment 2 (Figure 1).

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The Dinero complex consists of production equipment, a tank battery, and nearby oil and gas exploration and production wellpads, and is typical of oil and gas-related sites in the western portion of the Permian Basin. The following sections specifically describe the release area on the northern edge of the tank battery containment and towards the east and west ends of the well pad fence line of the lease at the north edge of the pad.

The surrounding landscape is associated with the hills, plains, and ridges typical of elevations between 1,250 and 5,000 feet above sea level. The climate is semi-arid with an average annual precipitation ranging between 10 and 25 inches. Historically, the plant communities in this area have been dominated by black grama, dropseeds and threeawns with soaptree yucca, ephedra, and fourwing saltbrush. Perennial and annual forb abundance and distribution are dependent on precipitation. Litter and, to a lesser extent, bare ground make up a significant proportion of ground cover (United States Department of Agriculture, Natural Resources Conservation Service, 2020). Limited to no vegetation is allowed to grow on the compacted facility and disposal pad area.

The Geological Map of New Mexico indicates the surface geology at Dinero is comprised of Qp – Piedmont alluvial deposits (New Mexico Bureau of Geology and Mineral Resources, 2020). The Natural Resources Conservation Service Web Soil Survey characterizes the soil at Dinero as Reeves-Gypsum land complex, which is characterized by loam, clay loam and gypsiferous material. This soil tends to be well drained with high runoff and low water storage in the soil profile (United States Department of Agriculture, Natural Resources Conservation Service, 2020). There is low potential for karst geology to be present near Dinero (United States Department of the Interior, Bureau of Land Management, 2020).

There is no surface water located on-site. The nearest significant watercourse, as defined in Subsection P of 19.15.17.7 NMAC, is the Pecos River, located approximately 3 miles southwest of the site (United States Fish and Wildlife Service, 2020). There are no continuously flowing watercourses, lakebeds, sinkholes, playa lakes, or other critical water or community features at Dinero, as outlined in Paragraph (4) of Subsection C of 19.15.29.12 NMAC.

The nearest recent well to the site is a United States Geological Survey-identified well, located approximately 0.78 miles north of Dinero, with a depth to groundwater of 52.5 feet below ground surface (bgs; United States Department of the Interior, United States Geological Survey, 2020). There are no active wells within a 0.5 mile radius. Documentation pertaining to site characterization and depth to groundwater determination is included in Attachment 3.

Closure Criteria Determination

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

Based on data included in the closure criteria determination worksheet, the release at Dinero is subject to the requirements of Paragraph (4) of Subsection C of 19.15.29.12 NMAC and the closure criteria for the site are determined to be associated with the following constituent concentration limits based on depth to groundwater as well as being within a 100-year flood plain.

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

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

Remedial Actions

On February 23, 2021, Matador contracted Vertex to complete release delineation and remediation at Dinero through field screen procedures, oversight of the remediation fieldwork and final confirmatory sampling. The initial spill inspection and site characterization activities at Dinero were completed by Vertex on February 23, 2021. The Daily Field Report (DFR) and field screening data associated with the visit are included in Attachment 4. Using initial field screening data, the release was delineated horizontally and vertically, and remediation was started. Excavation of impacted soils was conducted between March 17 and 25, 2021, with a Vertex representative on-site to conduct field screen procedures to determine final horizontal and vertical extents of the excavation area.

On March 15, 2021, April 7, 2021, and April 22, 2021, during excavation and following the completion of excavation activities, Vertex provided notification of confirmation sampling to NMOCD (Attachment 5), as required by Subparagraph (a) of Paragraph (1) of Subsection D 19.15.29.12 NMAC.

On March 17 to 25, 2021, Vertex collected a total of 68 five-point composite confirmatory samples from the base and side walls of the excavation, at depths ranging between ground surface and 2.5 feet bgs. Each composite sample was representative of no more than 200 square feet per the alternate sampling method outlined in Subparagraph (c) of Paragraph (1) of Subsection D 19.15.29.12 NMAC, which does not require prior NMOCD approval. Additional sampling was completed on April 12, 2021, with further excavation to assess failed confirmatory sample areas. The composite samples were placed into laboratory-provided containers, preserved on ice, and submitted to a National Environmental Laboratory Accreditation Program-approved laboratory for chemical analysis.

Laboratory analyses included Method 300.0 for chlorides, Method 8021B for volatile organics, including BTEX, and EPA Method 8015 for TPH, including MRO, DRO and GRO. Confirmatory sample analytical data are summarized in Attachment 6. Laboratory data reports and chain of custody forms are included in Attachment 7.

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

On May 24, 2021, Vertex submitted an extension request via email to NMOCD to complete the final closure report (Attachment 8).

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Closure Request

Vertex recommends no additional action to address the release at Dinero. Laboratory analyses of the final confirmatory samples showed constituent of concern concentration levels below NMOCD closure criteria for areas where depth to groundwater is less than 50 feet bgs and within a 100-year floodplain as presented in Table 1. There are no anticipated risks to human, ecological or hydrological receptors associated with the release site.

Vertex requests that this incident (nAPP2105530312) be closed as all closure requirements set forth in Subsection E of 19.15.29.12 NMAC have been met. Matador certifies that all information in this report and the attachments is correct, and that they have complied with all applicable closure requirements and conditions specified in Division rules and directives to meet NMOCD requirements to obtain closure on the February 23, 2021, release at Dinero.

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

Sincerely,

Monica Peppin PROJECT MANAGER

Attachments

Attachment 1. NMOCD C-141 Report

Attachment 2. Figures

Attachment 3. Closure Criteria Determination

Attachment 4. Daily Field Report(s) with Photographs

Attachment 5. Required 48-hr Notification of Confirmation Sampling to Regulatory Agencies

Attachment 6. Characterization and Confirmatory Sampling Laboratory Results Tables

Attachment 7. Laboratory Data Reports/Chain of Custody Forms

Attachment 8. Extension Request

2021 Spill Assessment and Closure May 2021

References

- New Mexico Bureau of Geology and Mineral Resources. (2021. *Interactive Geologic Map.* Retrieved from http://geoinfo.nmt.edu
- New Mexico Oil Conservation Division. (2018). *New Mexico Administrative Code Natural Resources and Wildlife Oil and Gas Releases*. Santa Fe, New Mexico.
- United States Department of Agriculture, Natural Resources Conservation Service. (2020). *Web Soil Survey*. Retrieved from https://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx
- United States Department of the Interior, Bureau of Land Management. (2020). *New Mexico Cave/Karsts*. Retrieved from https://www.blm.gov/programs/recreation/recreation-programs/caves/new-mexico
- United States Department of the Interior, United States Geological Survey. (2020). *Groundwater for New Mexico: Water Levels*. Retrieved from https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?
- United States Fish and Wildlife Service. (2020). *National Wetlands Inventory*. Retrieved from https://www.fws.gov/wetlands/Data/Mapper.html

2021 Spill Assessment and Closure May 2021

Limitations

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

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

ATTACHMENT 1

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	nAPP2105530312
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Matador Production Company			OGRID:	OGRID: 228937		
Contact Name: Arsenio Jones			Contact '	Contact Telephone: 575-361-4333		
Contact email: arsenio.jones@matadorresources.com		Incident	# (assigned by OCD)	nAPP2105530312		
Contact mail	ling address:	5400 LBJ Freewa	ny, Suite 1500 Dal	las, TX 75240		
			Location	of Release S	Source	
Latitude	32.39429	91	(NAD 83 in dec	Longitude	-104.090563 cimal places)	
Site Name: D	inero State	#005		Site Type	e: Gas	
Date Release	Discovered	: 02/23/2021		API# (if a	pplicable) 30-015-34	4492
Unit Letter	Section	Township	Range	Cox	unty	
G	16	22S	28E		ldy	
	10	223	26E	Lu	duy	
Surface Owne	r: X State	Federal T	ribal 🔲 Private (/	Vame:)
			Nature and	d Volume of	Release	
Crude Oi		Volume Released		calculations or specif	Volume Recov	volumes provided below) vered (bbls)
Produced	Water	Volume Release	ed (bbls) 22.5 b	bls	Volume Recovered (bbls) 0 bbls	
Is the concentration of dissolved chloride produced water >10,000 mg/l?			⊠ Yes □ No			
Condensate Volume Released (bbls)			Volume Recovered (bbls)			
☐ Natural Gas Volume Released (Mcf)			Volume Recovered (Mcf)			
		Volume/Weight	Released (provide	e units)	Volume/Weig	ht Recovered (provide units)
Cause of R	Release:					
Ball valve	cracked fro	m freezing on load	l line resulting in r	release.		

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Incident ID	nAPP2105530312
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the	ne responsible party consider this a major release?
☐ Yes ⊠ No		
If YES, was immediate no	otice given to the OCD? By whom	? To whom? When and by what means (phone, email, etc)?
	Init	tial Response
The responsible p	party must undertake the following actions is	mmediately unless they could create a safety hazard that would result in injury
	ease has been stopped. s been secured to protect human he	alth and the environment.
	_	erms or dikes, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been rem	oved and managed appropriately.
has begun, please attach	a narrative of actions to date. If re	mence remediation immediately after discovery of a release. If remediation emedial efforts have been successfully completed or if the release occurred MAC), please attach all information needed for closure evaluation.
regulations all operators are public health or the environm failed to adequately investigations.	required to report and/or file certain rel ment. The acceptance of a C-141 report ate and remediate contamination that po	te to the best of my knowledge and understand that pursuant to OCD rules and ease notifications and perform corrective actions for releases which may endanger to by the OCD does not relieve the operator of liability should their operations have use a threat to groundwater, surface water, human health or the environment. In erator of responsibility for compliance with any other federal, state, or local laws
Printed Name: A	rsenio Jones	Title: RES Specialist .
Signature:		Date: 6/24/21
	adorresources.com	Telephone: 972-371-5200 .
OCD Only		
Received by:		Date:

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Incident ID	nAPP2105530312
District RP	
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Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u><50</u> (ft bgs)		
Did this release impact groundwater or surface water?	Yes X No		
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	Yes X No		
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	Yes X No		
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	Yes X No		
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	Yes X No		
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	Yes X No		
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	Yes X No		
Are the lateral extents of the release within 300 feet of a wetland?	Yes X No		
Are the lateral extents of the release overlying a subsurface mine?	Yes X No		
Are the lateral extents of the release overlying an unstable area such as karst geology?	Yes X No		
Are the lateral extents of the release within a 100-year floodplain?	X Yes No		
Did the release impact areas not on an exploration, development, production, or storage site?	Yes X No		
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.			

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

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

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

Received by OCD: 6/24/2021 4:36:09 PM Form C-141 State of New Mexico Page 4 Oil Conservation Division

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District RP	
Facility ID	

Application ID

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Incident ID	nAPP2105530312
District RP	
Facility ID	
Application ID	

Closure

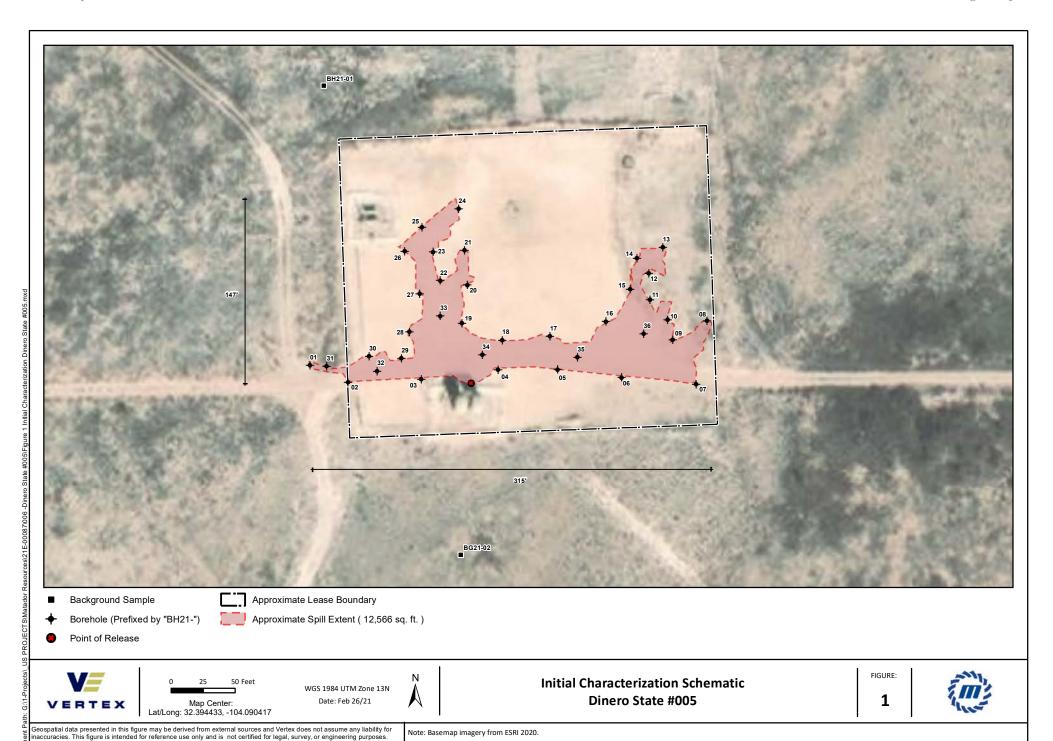
The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled 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.

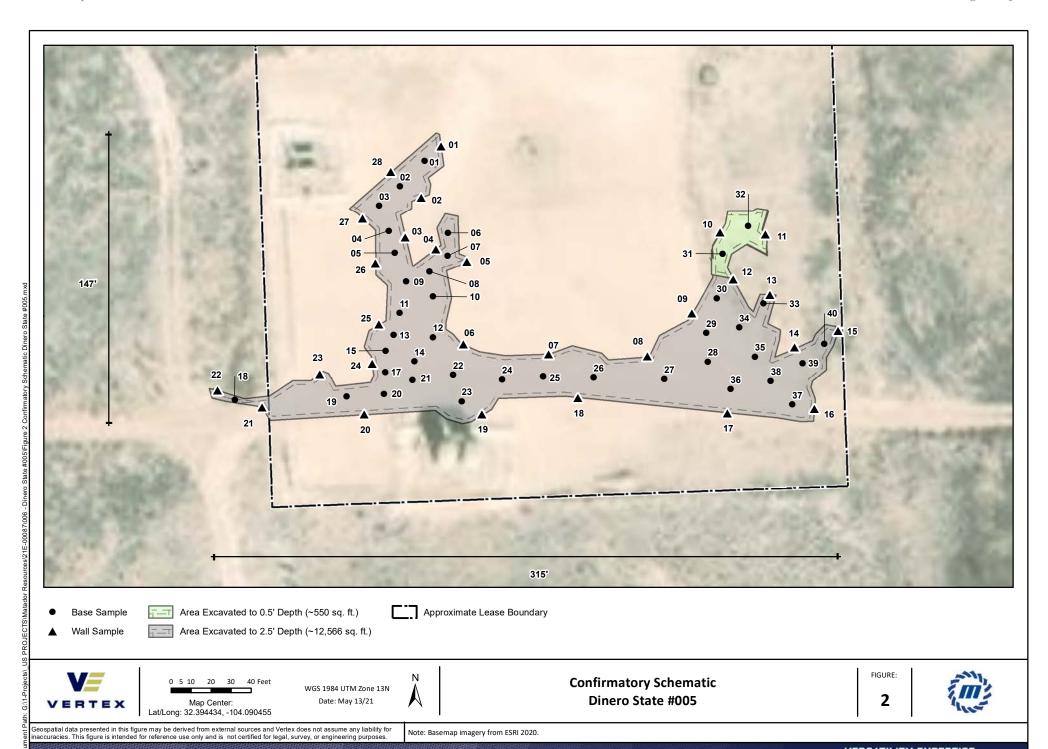
X A scaled site and sampling diagram as described in 19.15.29.1	1 NMAC
X Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
X Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of	nediate contamination that pose a threat to groundwater, surface water, a C-141 report does not relieve the operator of responsibility for tions. The responsible party acknowledges they must substantially neditions that existed prior to the release or their final land use in
Printed Name: Arsenio Jones	Title: RES Specialist
Signature:	Date:6/24/21
email:arsenio.jones@matadorresources.com	Telephone:
OCD Only	
Received by: Chad Hensley	Date:07/16/2021
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.
Closure Approved by:	Date: 07/16/2021
Printed Name: Chad Hensley	Title: Environmental Specialist Advanced
_	

ATTACHMENT 2

VERSATILITY. EXPERTISE.



Note: Basemap imagery from ESRI 2020.

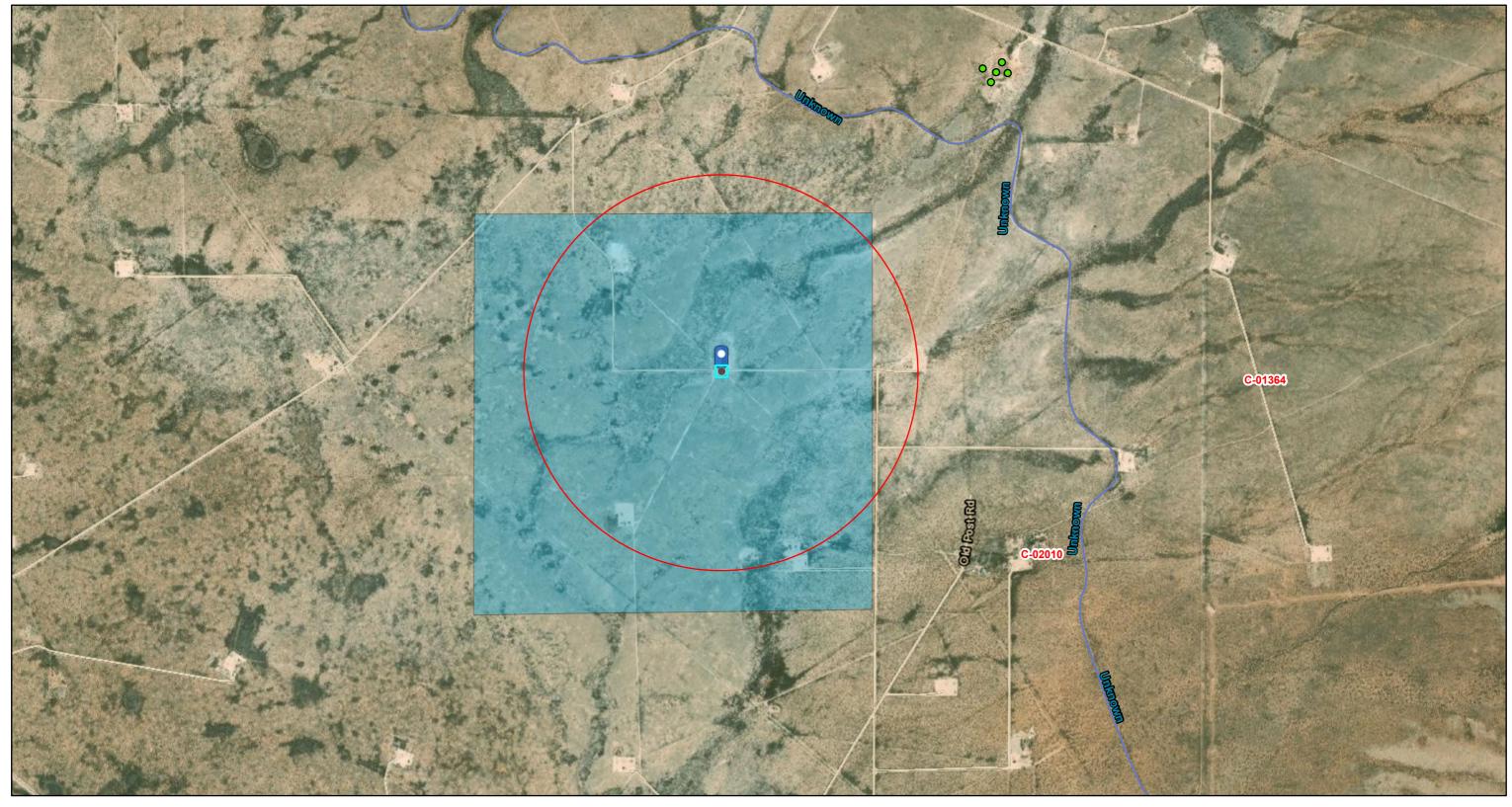


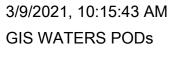
Released to Imaging: 7/16/2021 9:31:29 AM

VERSATILITY. EXPERTISE.

ATTACHMENT 3

	e: Dinero State #005			
-	rdinates:	X: 32.394291	Y: -104.090563	
Site Spec	ific Conditions	Value	Unit	
1	Depth to Groundwater	<50	feet	
2	Within 300 feet of any continuously flowing	15.006	feet	
2	watercourse or any other significant watercourse	15,096	теет	
2	Within 200 feet of any lakebed, sinkhole or playa lake	17.206	foot	
3	(measured from the ordinary high-water mark)	17,396	feet	
4	Within 300 feet from an occupied residence, school,	17.120		
4	hospital, institution or church	17,129	feet	
	i) Within 500 feet of a spring or a private, domestic			
_	fresh water well used by less than five households for	4,876	feet	
5	domestic or stock watering purposes, or			
	ii) Within 1000 feet of any fresh water well or spring	4,876	feet	
	Within incorporated municipal boundaries or within a			
	defined municipal fresh water field covered under a		(Y/N)	
6	municipal ordinance adopted pursuant to Section 3-27-	No		
	3 NMSA 1978 as amended, unless the municipality			
	specifically approves			
7	Within 300 feet of a wetland	6,616	feet	
8	Within the area overlying a subsurface mine	No	(Y/N)	
			Critical	
0	With in an unatable area (Karat Man)	Low	High	
9	Within an unstable area (Karst Map)		Medium	
			Low	
10	Within a 100-year Floodplain	100	year	
	Within a 100 year 1100apiani	100	year	
11	Soil Type	Reeves Gypsum		
12	Ecological Classification	Loamy		
		Qp-Piedmont alluvial deposits (Holocene to lower Pleistocene)		
13	Geology			
			<50'	
	NMAC 19.15.29.12 E (Table 1) Closure Criteria	<50'	51-100'	
			>100'	





New Mexico State Trust Lands Conveyances

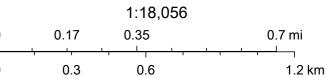
Both Estates

Pending

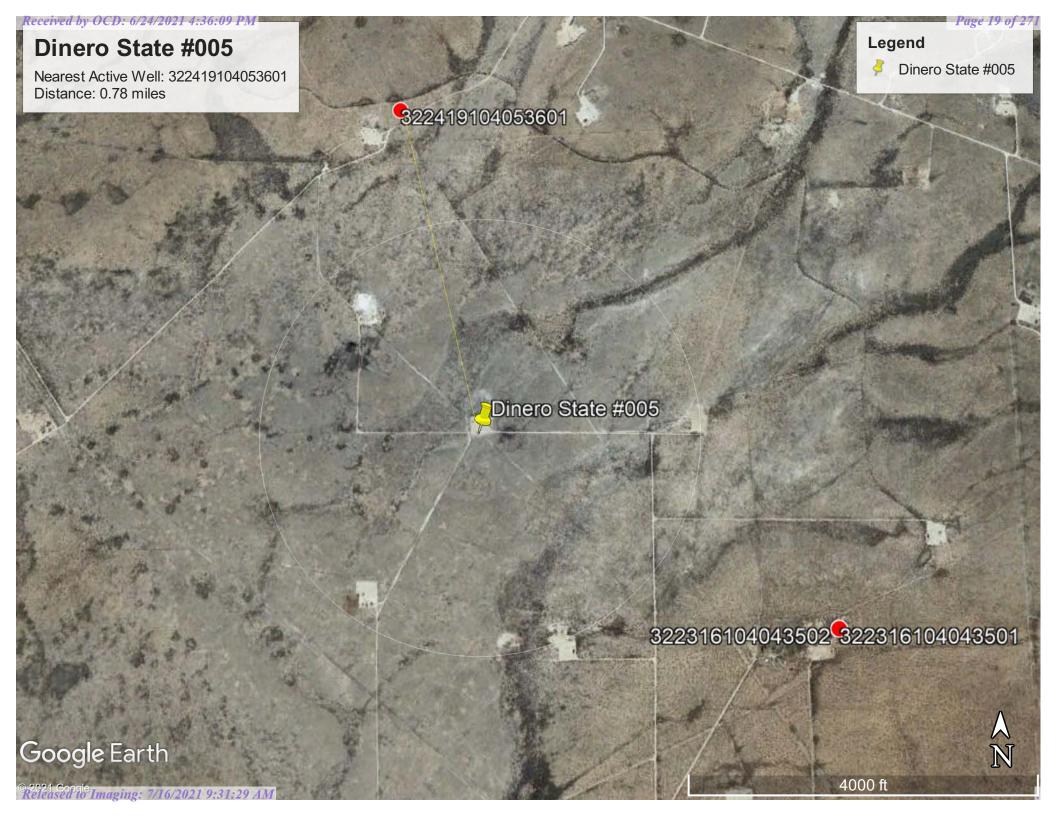
OSE District Boundary

SiteBoundaries

Ditch



USDA FSA, GeoEye, Maxar, Esri, HERE, iPC, U.S. Department of Energy Office of Legacy Management, Esri, HERE, Garmin, iPC





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National Water Information System: Web Interface

USGS Water Resources

Data Category:		Geographic Area:		
Groundwater	~	United States	~	GO

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site_no list =

322316104043501

Minimum number of levels = 1

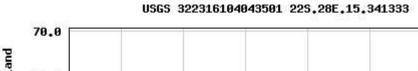
Save file of selected sites to local disk for future upload

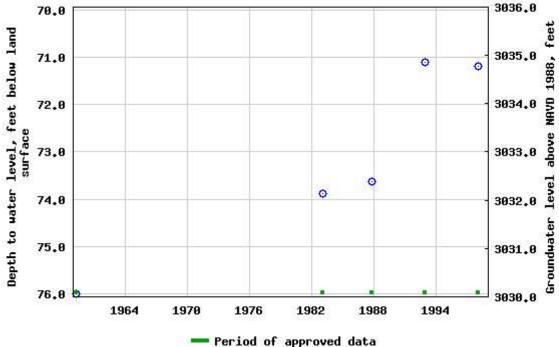
USGS 322316104043501 22S.28E.15.341333

Available data for this site	Groundwater:	Field measurements	♥ GO		
Eddy County, New Mexico					
Hydrologic Unit Code 1306	0011				
Latitude 32°23'16", Longi	tude 104°0	4'35" NAD27			
Land-surface elevation 3,1	06 feet abo	ve NAVD88			
This well is completed in th	ne Other aq	uifers (N9999OTI	HER) natio	nal aquifer.	
This well is completed in th	າe Alluvium	, Bolson Deposits	and Othe	r Surface De	posits
(110AVMB) local aquifer.					

Output formats

<u>Table of data</u>	
<u>Tab-separated data</u>	
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Breaks in the plot represent a gap of at least one year between field measurements. Download a presentation-quality graph

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Title: Groundwater for USA: Water Levels

URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u>

Page Last Modified: 2021-03-09 12:22:53 EST

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National Water Information System: Web Interface

USGS Water Resources

Data Category:		Geographic Area:		
Groundwater	~	United States	~	GO

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Groundwater levels for the Nation

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322419104053601

Minimum number of levels = 1

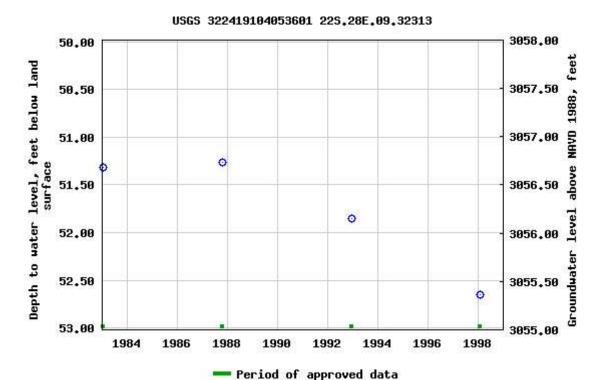
Save file of selected sites to local disk for future upload

USGS 322419104053601 22S.28E.09.32313

Available data for this site	Groundwater:	Field measurements	~	GO		
Eddy County, New Mexico						
Hydrologic Unit Code 1306	0011					
Latitude 32°24'19", Longi	tude 104°0	5'36" NAD27				
Land-surface elevation 3,1	08 feet abo	ve NAVD88				
This well is completed in th	ne Other aq	uifers (N9999OT	HER)	natio	nal aquif	er
This well is completed in th	ne Alluvium	, Bolson Deposits	s and	l Othe	r Surface	Deposits
(110AVMB) local aquifer.						

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period



Breaks in the plot represent a gap of at least one year between field measurements. <u>Download a presentation-quality graph</u>

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U.S. Department of the Interior | U.S. Geological Survey

Title: Groundwater for USA: Water Levels

URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u>

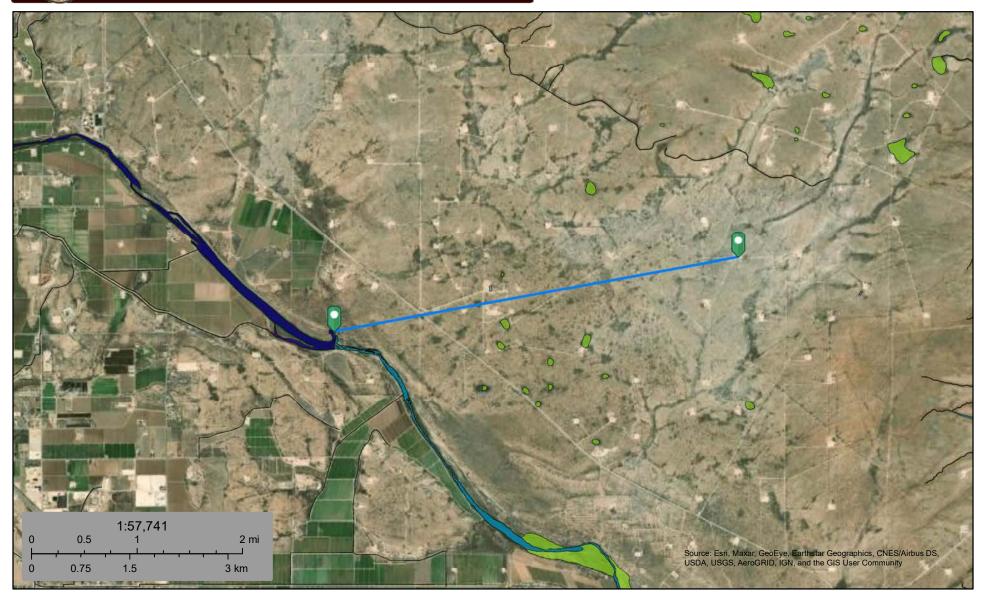
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March 9, 2021

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Lake

Freshwater Forested/Shrub Wetland



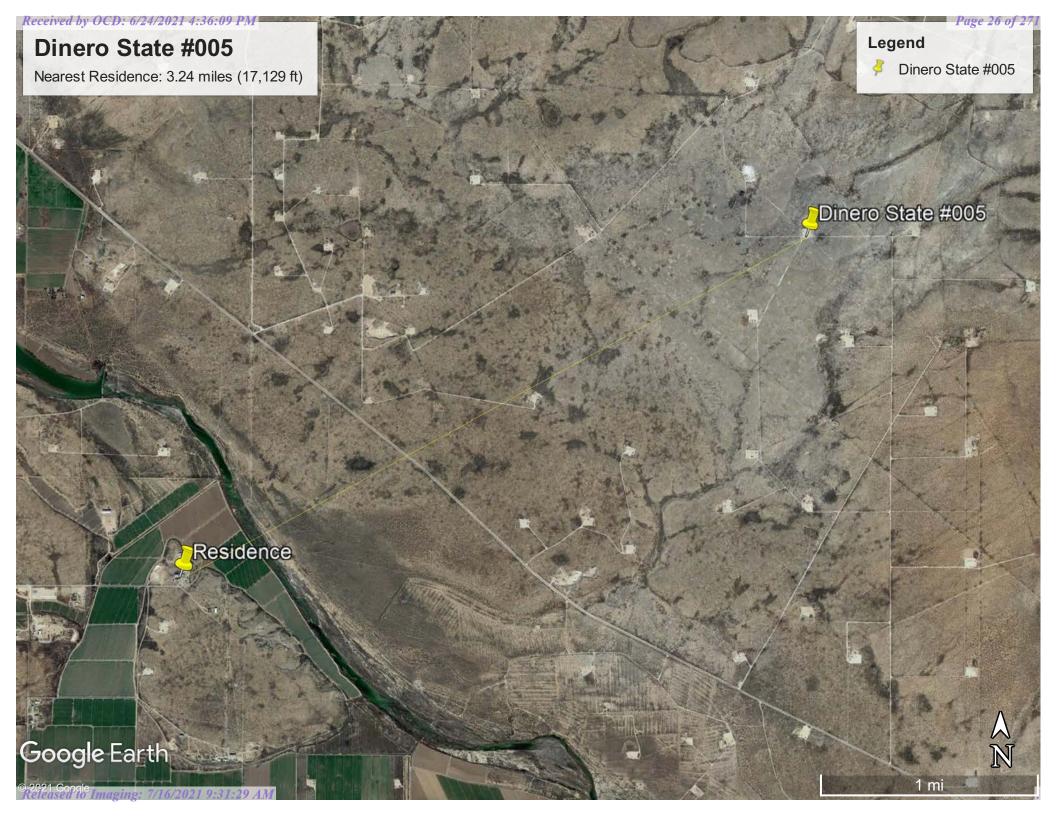
Other

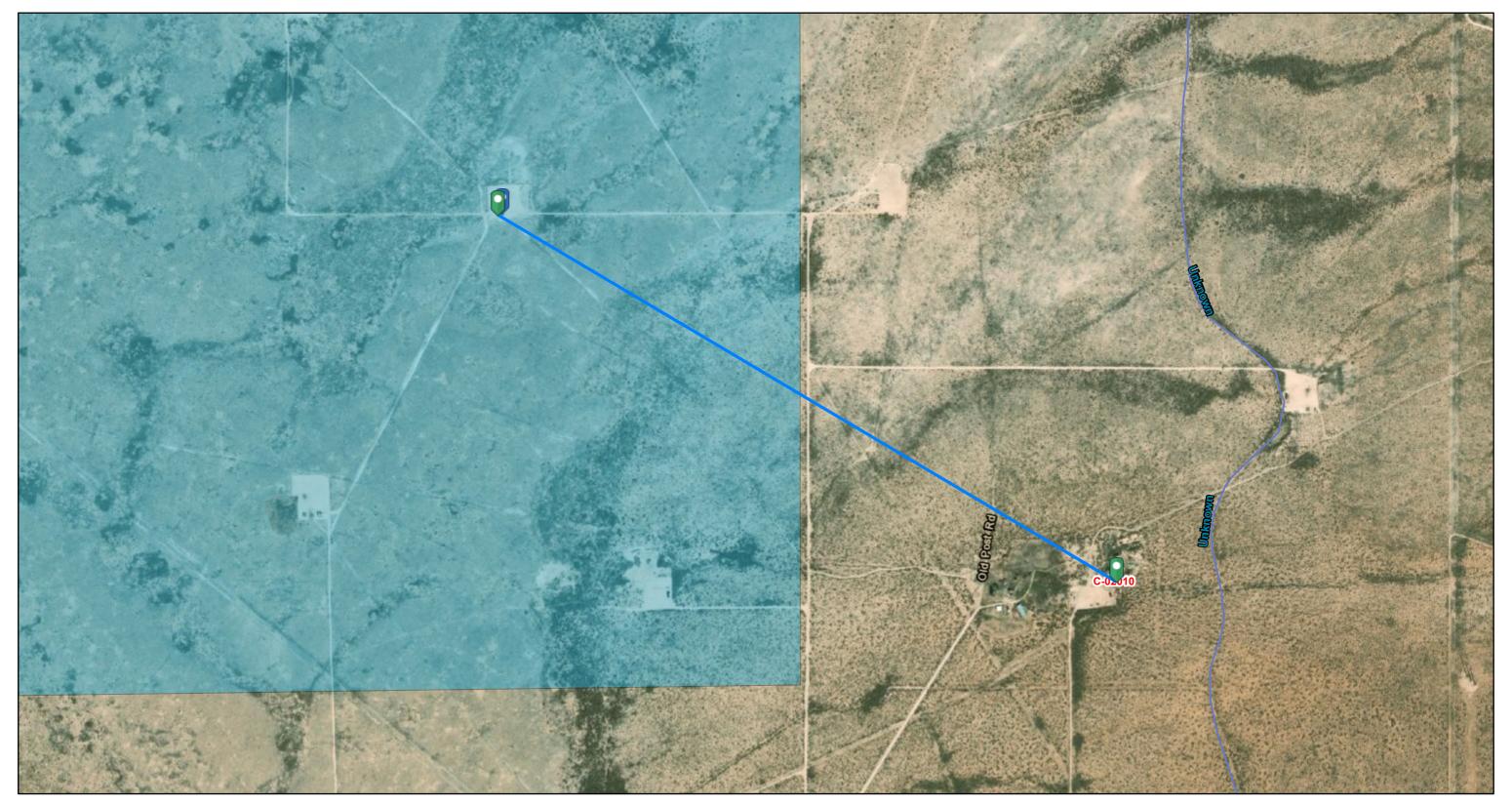
Riverine

Freshwater Pond

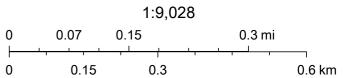


This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

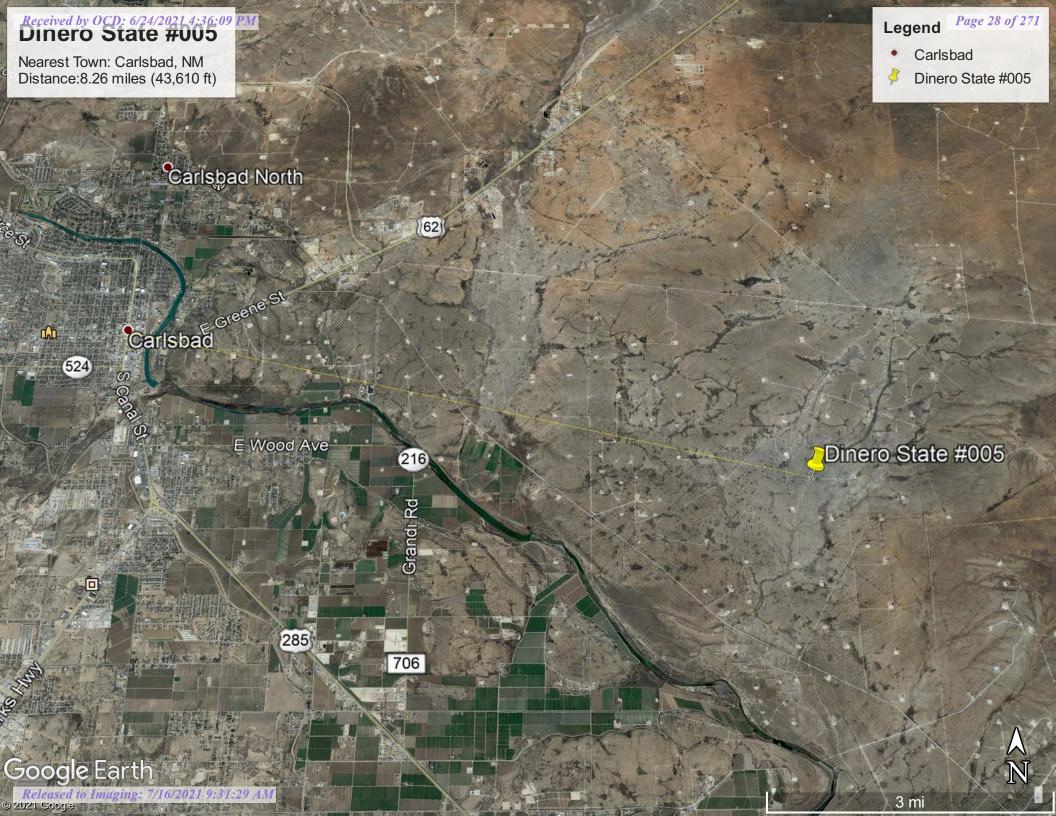




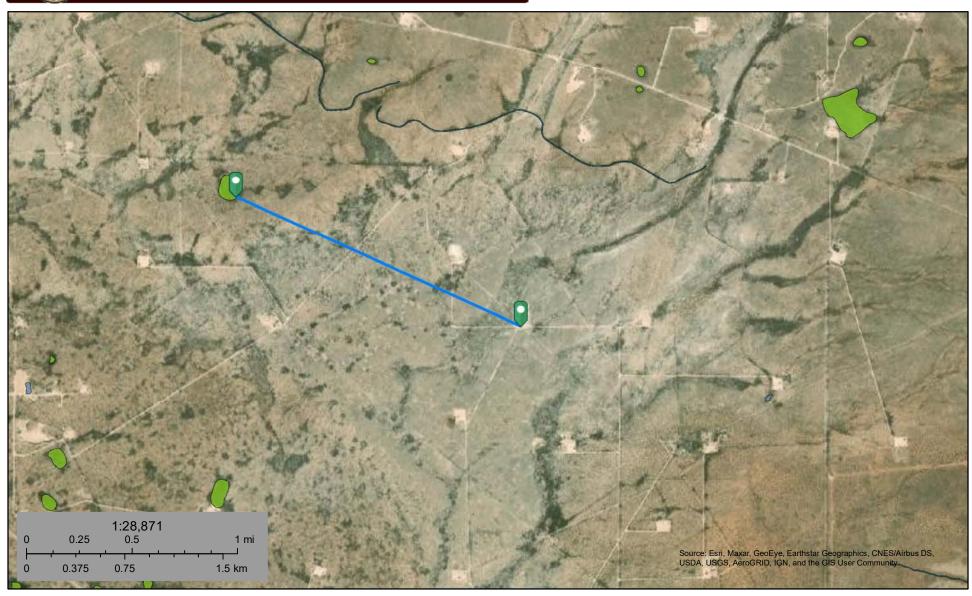
3/9/2021, 10:25:26 AM OSE District Boundary Conveyances Ditch New Mexico State Trust Lands SiteBoundaries Both Estates



USDA FSA, GeoEye, Maxar, Esri, HERE, iPC, U.S. Department of Energy Office of Legacy Management, Esri, HERE, Garmin, iPC







March 9, 2021

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

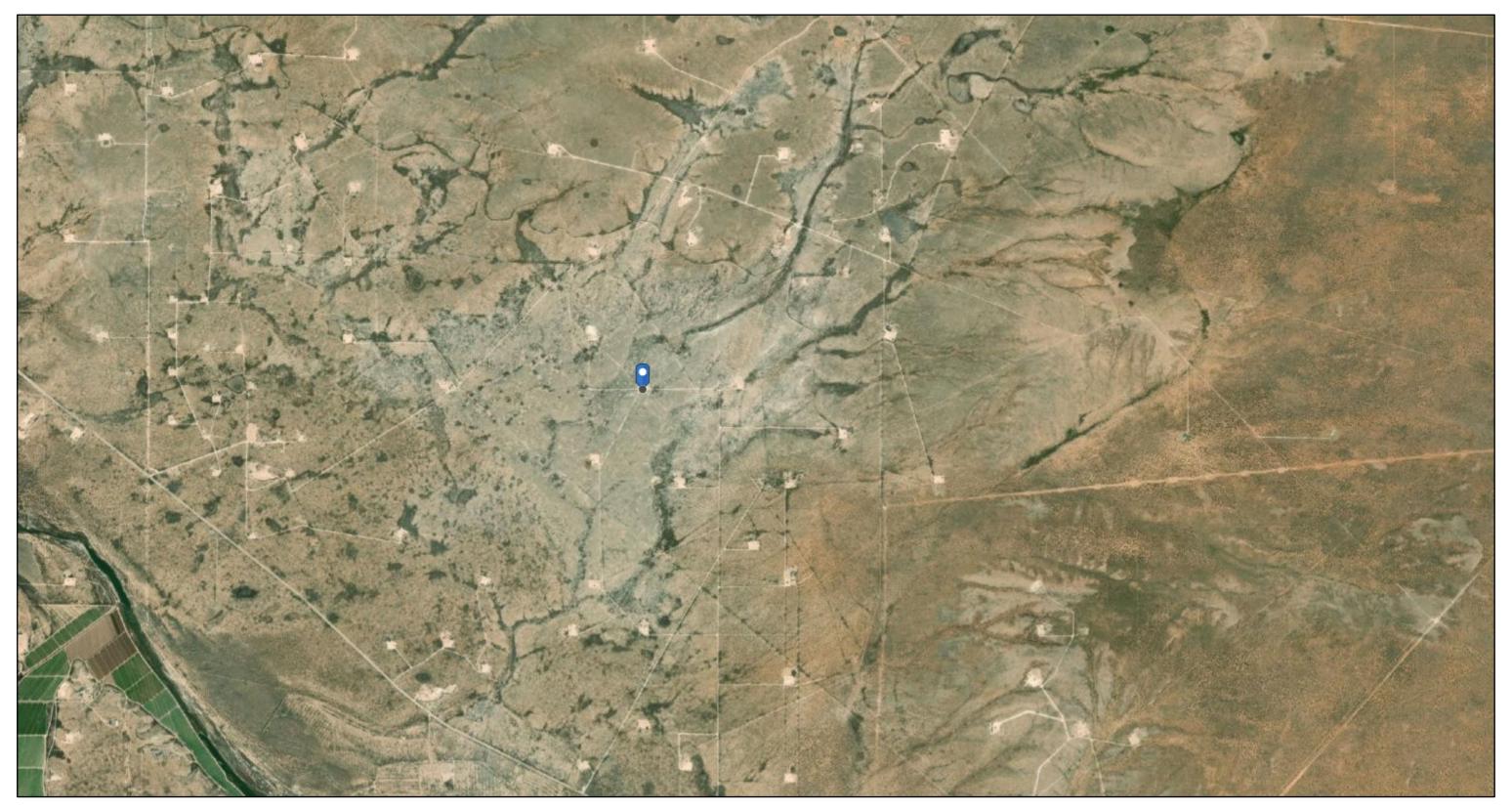
Freshwater Pond

Lake

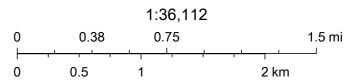
Freshwater Forested/Shrub Wetland Other

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.



3/30/2021, 1:45:46 PM



USDA FSA, GeoEye, Maxar



Received by OCD: 6/24/2021 4:36:69 PM National Flood Hazard Layer FIRMette





SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT Without Base Flood Elevation (BFE) With BFE or Depth Zone AE, AO, AH, VE, AR SPECIAL FLOOD HAZARD AREAS Regulatory Floodway

> 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

0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average

NO SCREEN Area of Minimal Flood Hazard Zone X Effective LOMRs

OTHER AREAS Area of Undetermined Flood Hazard Zone D

 - - - Channel, Culvert, or Storm Sewer **GENERAL** STRUCTURES | LILLIL Levee, Dike, or Floodwall

> 20.2 Cross Sections with 1% Annual Chance Water Surface Elevation **Coastal Transect** ----- Base Flood Elevation Line (BFE) Limit of Study Jurisdiction Boundary **Coastal Transect Baseline Profile Baseline**

Hydrographic Feature Digital Data Available

OTHER

FEATURES

MAP PANELS

No Digital Data Available

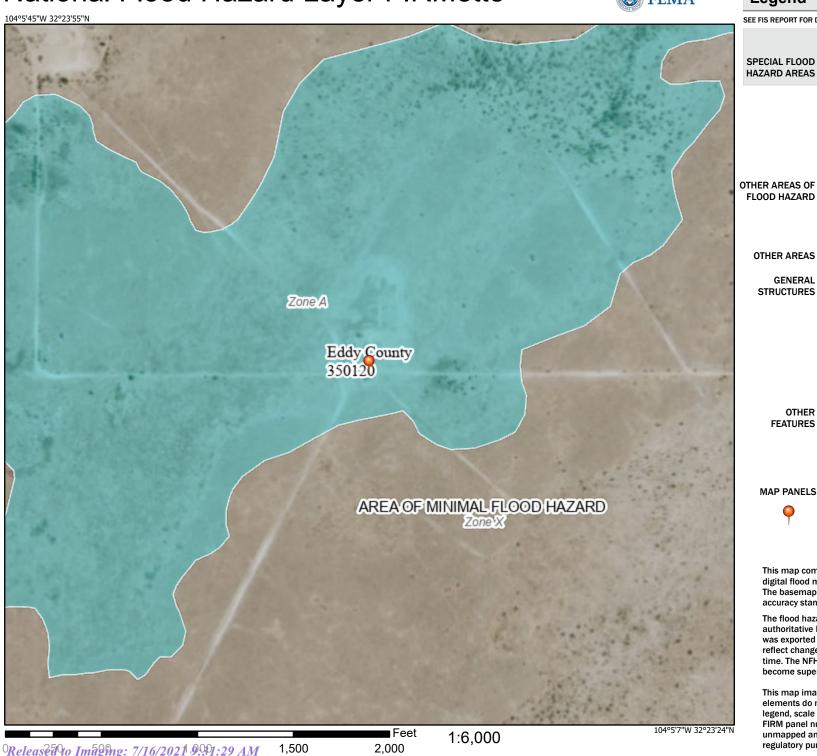
Unmapped

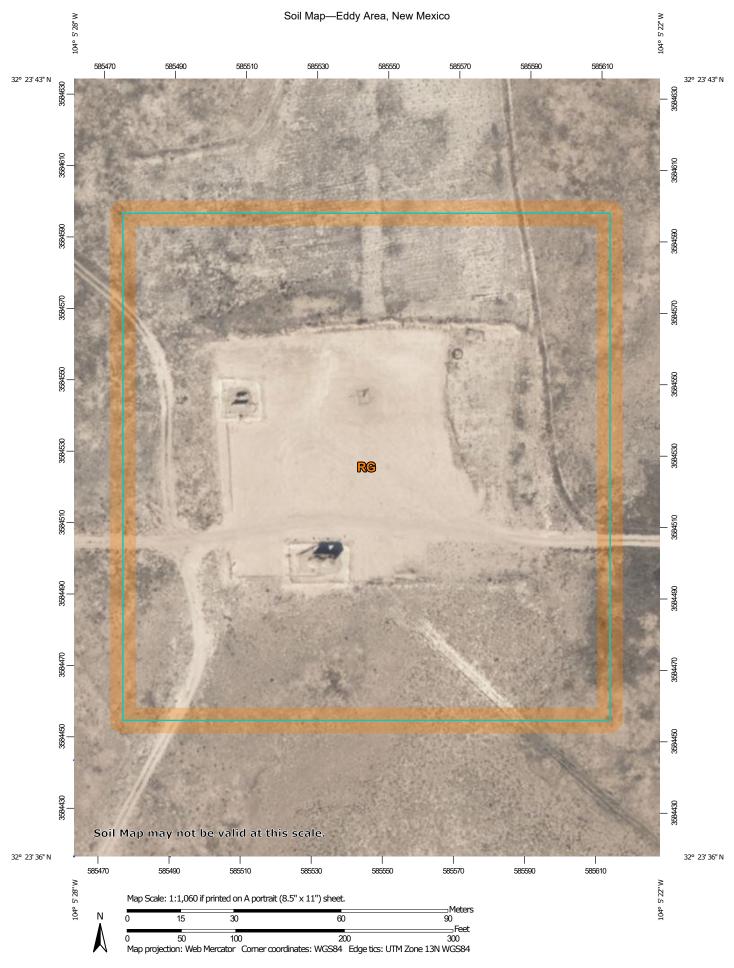
The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

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 3/9/2021 at 12:42 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.





MAP LEGEND

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Water Features

Transportation

Background

Spoil Area

Stony Spot

Wet Spot

Other

Rails

US Routes

Major Roads

Local Roads

Very Stony Spot

Special Line Features

Streams and Canals

Interstate Highways

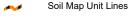
Aerial Photography

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons



Soil Map Unit Points

Special Point Features

Blowout

Borrow Pit

Clay Spot

Closed Depression

Gravel Pit

Gravelly Spot

Candfill

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

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 16, Jun 8, 2020

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
RG Reeves-Gypsum land complex, 0 to 3 percent slopes		4.8	100.0%
Totals for Area of Interest		4.8	100.0%

Eddy Area, New Mexico

RG—Reeves-Gypsum land complex, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 1w5f Elevation: 1,250 to 5,000 feet

Mean annual precipitation: 10 to 25 inches Mean annual air temperature: 57 to 70 degrees F

Frost-free period: 190 to 235 days

Farmland classification: Not prime farmland

Map Unit Composition

Reeves and similar soils: 55 percent

Gypsum land: 30 percent Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

Description of Reeves

Setting

Landform: Hills, plains, ridges

Landform position (two-dimensional): Backslope, footslope,

shoulder, toeslope

Landform position (three-dimensional): Crest, nose slope, side

slope, head slope Down-slope shape: Convex Across-slope shape: Linear

Parent material: Residuum weathered from gypsum

Typical profile

H1 - 0 to 8 inches: loam H2 - 8 to 32 inches: clay loam

H3 - 32 to 60 inches: gypsiferous material

Properties and qualities

Slope: 0 to 1 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: High

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

to moderately low (0.00 to 0.06 in/hr) Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 25 percent

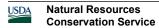
Gypsum, maximum content: 80 percent

Maximum salinity: Very slightly saline to moderately saline (2.0 to

8.0 mmhos/cm)

Sodium adsorption ratio, maximum: 4.0

Available water capacity: Low (about 4.3 inches)



Interpretive groups

Land capability classification (irrigated): 3s Land capability classification (nonirrigated): 7s

Hydrologic Soil Group: B

Ecological site: R042XC007NM - Loamy

Hydric soil rating: No

Description of Gypsum Land

Setting

Landform: Hills, plains, ridges

Landform position (two-dimensional): Backslope, footslope,

shoulder, toeslope

Landform position (three-dimensional): Crest, nose slope, side

slope, head slope Down-slope shape: Convex Across-slope shape: Linear

Parent material: Residuum weathered from gypsum

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 8s

Hydric soil rating: No

Minor Components

Cottonwood

Percent of map unit: 5 percent

Ecological site: R042XC033NM - Salty Bottomland

Hydric soil rating: No

Reagan

Percent of map unit: 5 percent

Ecological site: R042XC007NM - Loamy

Hydric soil rating: No

Largo

Percent of map unit: 5 percent

Ecological site: R042XC007NM - Loamy

Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 16, Jun 8, 2020

No

Ecological Reference Worksheet

Author(s) / participant(s):	John Tunberg,	
Contact for lead author:	505-761-4488	Reference site used? Yes/No

Date: 2/12/2010 MLRA: 42.3 Ecological Site: Loamy This <u>must</u> be verified based on soils

and climate (see Ecological Site Description). Current plant community <u>cannot</u> be used to identify the ecological site.

<u>Indicators:</u> For each indicator, describe the potential for the site. Where possible, (1) use numbers, (2) include expected range of values for above and below average years for <u>each</u> community within the reference state, when appropriate & (3) site data. Continue description on separate sheet.

1. Number and extent of rills: There should not be any rills.

After wildfires, or abnormally high human or herbivore impacts or extended drought or combinations of these disturbances rills may double in number on steeper slopes at the margins of this site after high-intensity summer thunderstorms. Any rills formed should not be long lived or interconnected and should heal rapidly.

2. Presence of water flow patterns: There can be evidence of sheet flow.

There can be a few flow patterns that should be short and discontinuous. There can be some sheet flow. Water flow patterns should only be present following intense storm events on upper slope limits at the margins of this site. Numerous obstructions alter flow paths. Flow pattern length and numbers may double after wildfires, or abnormally high human or herbivore impacts or extended drought or combinations of these disturbances.

3. Number and height of erosional pedestals or terracettes: Pedestals should be rare. Terracettes can occure and should be discontinuous.

There can be a few pedestals that should be less than 1 inch high. Terracettes can be common and should be discontinuous. If present plant or rock pedestals and terracettes are almost always in flow patterns. Wind caused pedestals are rare and only would be on the site following after wildfires, or abnormally high human or herbivore impacts or extended drought or combinations of these disturbances. These would show signs of healing within 1 year after event.

- 4. Bare ground from Ecological Site Description or other studies (rock, litter, lichen, moss, plant canopy are not bare ground): Bare ground can make up to 50% of the ground cover on this site according to the ESD. Bare patch size should be small.
- 5. Number of gullies and erosion associated with gullies:

Gullies and erosion associated with gullies should be rare are infrequent. Typically, gullies if present will only follow the micro topography. Natural drainages with little to no active cutting are common on this site. There should not be any accelerated erosion. After high-intensity summer thunderstorms or after wildfire, or abnormally high human or herbivore impacts or extended drought or combinations of these disturbances then gully formation would be accelerated for a year or two. Evidence of healing within 1 year of event and continuing after that.

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

There should not be any wind scoured, blowouts and/or depositional areas. However there can be potential for depositional areas. Wind erosion is minimal when the site is in a well vegetated condition. Significant wind erosion would only be present following high-intensity summer thunderstorms, after wildfire, or abnormally high human or herbivore impacts or extended drought or combinations of these disturbances. After rain events, exposed soil surfaces form physical crusts that tend to reduce wind erosion. Deposition from off site sources can be common on this site and is in fact a primary soil forming process. This site is succeptable to wind erosion when vegetation is removed or significantly decreased.

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

Litter should be small (less than "1 in diameter) and its movement should be minimal. This site has adequate vegetation to stop litter movement after short distances. Most of the litter movement on this site will be litter that has been transported onto the site from adjacent sites. Litter produced on this site stays on the site and only travels short distances.

8. Soil surface (top few mm) resistance to erosion (stability) values are averages - most sites will show a range of values for both plant canopy and interspaces, if different):

This site can be susceptible to alluvial erosion. Stability values are estimated to be 1-2 in interspaces and 3-5 at bases of vegetation. This would be

9. Soil surface structures and SOM content (include type and strength of structure, and A-horizon color and thickness for both plant canopy and interspaces, if different):

The SOM content should be less than 1%. A--0 to 6 inches; grayish brown (10YR 5/2) loam, dark grayish brown (10YR 4/2) moist; weak fine subangular blocky structure; hard, friable, slightly sticky; surface 1/2 to 2 inches has weak thin to medium platy structure; common very fine and fine pores; common very fine, fine and medium roots; strongly calcareous; slightly alkaline (pH 7.6); clear smooth boundary. (4 to 8 inches thick)

10. Effect of plant community composition (relative proportion of different functional groups) & spatial distribution on infiltration & runoff:

Overall, infiltration rates should be slow for this site but can be higher around bases of grasses than in interspaces and around bases of shrubs. 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, 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.

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

There should not be any compaction layers on this site. There are soil profile features in the top 9 inches of the soil profile that would be mistaken for a management induced soil compaction layer. Management induced compaction layers will be more difficult to penetrate than clay lenses.

12. Functional/Structural Groups (list in order of descending dominance by above-ground weight using symbols: indicate much greater than (>>), greater than (>), and equal to (=):

black grama >> tobosa > C 4 bunch grasses (dropseeds) > C4 midgrasses (threeawns) >= soaptree yucca, ephedra, fourwing saltbush >= forbs (croton, desert marigold, globemallow, > broom snakeweed, prickly pear, = other forbs.

- 13. Amount of plant mortality and decadence (include which functional groups are expected to show mortality or decadence): Black grama and bunchgrasses can show decadence in centers of plants.
- 14. Average percent litter cover (______%) and depth (______inches).

 Average 15% cover and 0.75 inch deep. (As per ESD)
- 15. Expected annual production (this is TOTAL above-ground production, not just forage production):

(Low Production 650 lbs./ac.) (Average RV Production 925 lbs./ac.) (High Production 1200 lbs./ac.) After wildfires, high herbivore impacts, extended drought, or combinations of these disturbances, can cause production to be significantly reduced (100-200 lbs per ac. the first growing season following a wildfire) and recover slowly under below average precipitation regimes.

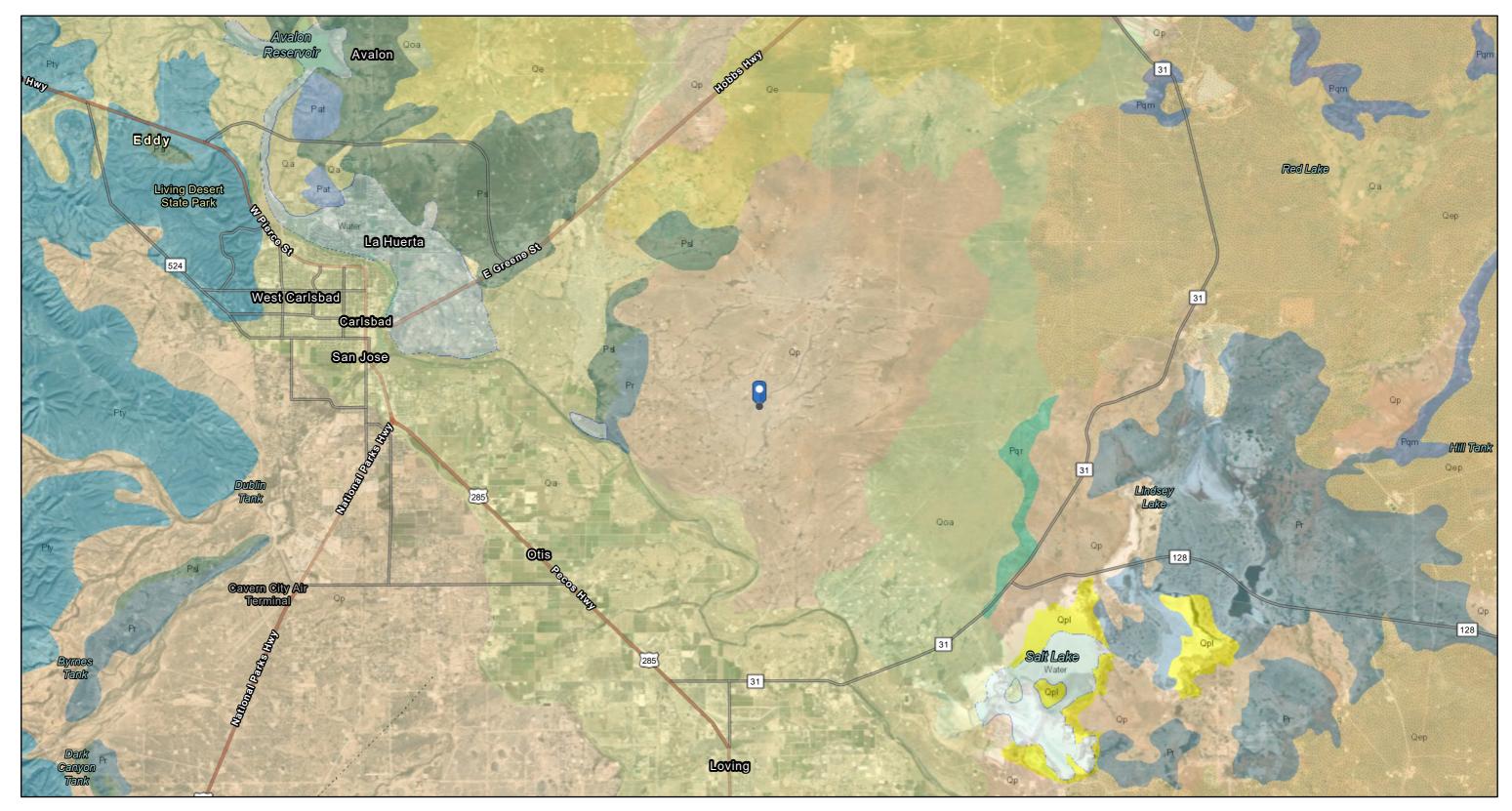
16. Potential invasive (including noxious) species (native and non-native). List species which characterize degraded states and which, after a threshold is crossed, "can, and often do, continue to increase regardless of the management of the site and may eventually dominate

Tarbush, creosote and mesquite can be invaders to this site. Invasive plants should not occur in reference plant community. However, lovegrass, Russian thistle, kochia, and other nonnative annuals may initially invade following extended disturbance. Mesquite and tarbush and creosote and lovegrass are the greatest threat to dominate this site in the long term after disturbance (primarily following wildfire exclusion but also includes high human or herbivore impacts and extended drought). Mesquite and tarbush and creosote and lovegrass are most likely to retain dominance if allowed to alter natural fire regime (this alteration may require poor land management combined with years of wet winter-spring; dry summer-fall conditions). Any of these invaded communities represent a departure from the reference state.

17. Perennial plant reproductive capability:

Black grama reproduces by seed sporadically and reproduction by tiller and stolon can be common. The C4 midgrasses should have high reproductive potential and rapidly recover from drought in the absence of additional stresses (grazing).

Dinero State #005



3/9/2021, 9:54:34 AM

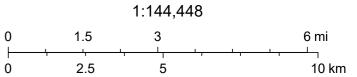
Faults

Fault, Exposed

— Fault, Intermittent

Fault, Concealed

Shere Zone



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community, NMBGMR, Sources: Esri, HERE, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community

ATTACHMENT 4



Client:	Matador Resources	Inspection Date:	2/23/2021	
Site Location Name:	Dinero 5	Report Run Date:	2/24/2021 1:37 AM	
Client Contact Name: Client Contact Phone #: Unique Project ID Project Reference #	John Hurt	API #: Project Owner: Project Manager:		
		Summary of ⁻	Times	
Arrived at Site	2/23/2021 11:15 AM			
Departed Site	2/23/2021 4:26 PM			
		Field Note	es	

- **11:36** Release area occurred mostly on pad. Areas in pasture followed low points going down the lease road to the east and the west. Larger portion of release goes towards wellhead north of tank battery
- 12:00 Release area come out to 0.29 acres. Prior to arriving to field ksat showed to be a max of 0.06 in/hr. Gypsum type of soil
- 12:04 Delineation of site to find vertical and horizontal extents
- **13:04** Gypsum stringers are very apparent within soil samples. Running ec to get a round about number before running titration. Background samples to be collected to verify readings between area around spill and what clean really is
- 17:33 Background samples show high with ec. Titration comes back low. Comparing samples to numbers with titration

Next Steps & Recommendations

- 1 Finish running samples on titration
- 2 Map request
- 3 C141 to matador



Site Photos



Point of release from tank



Stopping point of release



Flow of release to west end of pad



Flow of release area





Flow of release area



Flow of release area from point of release



Release area on pad



Release area towards point of release

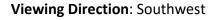




Release area on east end of pad



Pasture area on east side of pad





East side of pad where release followed low point



Daily Site Visit Signature

Inspector: Monica Peppin

Signature:



Client:	Matador Resources	Inspection Date:	2/25/2021
Site Location Name:	Dinero 5	Report Run Date:	2/25/2021 8:52 PM
Client Contact Name:	John Hurt	API #:	
Client Contact Phone #:			
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	
		Summary of ¹	Times
Arrived at Site	2/25/2021 8:44 AM		
Departed Site	2/25/2021 1:00 PM		
		Field Note	es

- **8:45** Arrived on site, began dfr and filling out safety paperwork.
- **9:13** Begin bore hole samples 0,0.5,1,2,3'
- 12:02 Finished collecting BH 32,33,34,35,36. Ask PM which ones to send to lab

Next Steps & Recommendations

1 Submit samples to lab



Site Photos



Spill area



Viewing Direction: Southeast

Spill area, Borehole area



Spill area







Spill area

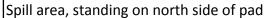
Spill area and BH33















Daily Site Visit Signature

Inspector: John Ramirez

Signature: Signature



Client:	Matador Resources	Inspection Date:	3/18/2021
Site Location Name:	Dinero 5	Report Run Date:	3/18/2021 9:58 PM
Client Contact Name:	John Hurt	API #:	
Client Contact Phone #:			
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	
		Summary of	Fimes
Arrived at Site	3/18/2021 7:50 AM		
Departed Site	3/18/2021 3:21 PM		
		Field Not	es
		i icia itot	

- 8:04 Arrived on site, began dfr and filling out safety paperwork
- **8:53** Beginning excavation from West to East, hand spotting marked line to ensure depths of them.
- **14:22** When excavation reached yellow H post by tanks, excavation turned to the north.
- 15:26 180 yards excavated and stock piled

Next Steps & Recommendations

1 Continue excavation tomorrow



Site Photos



Before excavation



Viewing Direction: East

Excavation



Stock pile





Fence around excavation



Before excavation



Before excavation



Before excavation





Before excavation



Viewing Direction: South

Before excavation





Before excavation







Daily Site Visit Signature

Inspector: John Ramirez

Signature:



Client:	Matador Resources	Inspection Date:	3/22/2021
Site Location Name:	Dinero 5	Report Run Date:	3/22/2021 7:36 PM
Client Contact Name:	John Hurt	API#:	
Client Contact Phone #:			
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	
		Summary of ¹	Times
Arrived at Site	3/22/2021 9:00 AM		
Departed Site	3/22/2021 11:15 AM		
		Field Note	es

10:12 Arrived on site.

Wind at approximately 40 mph, very dusty and hard to work in conditions.

Excavation nearly completed at this point.

Approximately 200 yards of dirt excavated.

Next Steps & Recommendations

1 Continue excavation and confirmation sampling



Site Photos



Northwest portion of excavation



Viewing Direction: North

Descriptive Photo - 10
Viewing Direction: North

Descriptive Photo - 10
Viewing Direction: North
Descriptive Photo - 10
Creation 2/27/2021 12:20:046 PM
Lat:32.386802, Longs-104.280008

Spoil pile approximately 160 yards



Northwest area of excavation





Northwest area of excavation



Excavation area in front of tank battery



Excavated area leading west



Western most portion of excavated area





Excavated area running east in front of tank battery and POR



Excavated area leading east into access road





Northeast portion of excavation heading back towards access road



Daily Site Visit Signature

Inspector: Austin Harris

Signature:



Client:	Matador Resources	Inspection Date:	3/23/2021	
Site Location Name:	Dinero 5	Report Run Date:	3/23/2021 9:26 PM	
Client Contact Name:	John Hurt	API #:		
Client Contact Phone #:				
Unique Project ID		Project Owner:		
Project Reference #		Project Manager:		
Summary of Times				
Arrived at Site	3/23/2021 7:57 AM			
Departed Site	3/23/2021 2:32 PM			

Field Notes

8:06 Arrived on site, filled out safety paperwork and began dfr.

12:11 Finish collecting the remaining confirmation samples

14:29 Roughly 1500 cubic yards to be hauled off.

14:30 Fence is put up around excavation.

Next Steps & Recommendations

1



Site Photos

Viewing Direction: East



Excavation

Viewing Direction: Northeast



Excavation across pad on east side

Viewing Direction: West

Excavation

Viewing Direction: North



Excavation







Daily Site Visit Signature

Inspector: John Ramirez

Signature: Signature



Client:	Matador Resources	Inspection Date:	4/12/2021	
Site Location Name:	Dinero 5	Report Run Date:	4/12/2021 9:41 PM	
Client Contact Name:	John Hurt	API #:		
Client Contact Phone #:		_		
Unique Project ID		Project Owner:		
Project Reference #		Project Manager:		
Summary of Times				
Arrived at Site	4/12/2021 7:52 AM			
Departed Site	4/12/2021 3:02 PM			
		Field Note	es	

- 8:00 Arrived on site and filled out safety paperwork and began dfr
- 8:01 Recollection of 6 failed samples
- 9:59 Further excavation on WS21-18, moving out 1'.
- **10:44** Collected 5 clean samples. Jarring samples for lab.
- **10:56** Begin to backfill.

Next Steps & Recommendations

1 Complete backfill tomorrow



Site Photos

Viewing Direction: South



Recollection area.



Backfill



Backfill area



Recollection area





Recollection area



Area for backfill



Area for backfill



Area for backfill





Area for backfill



Area for backfill



Backfill area



Daily Site Visit Signature

Inspector: John Ramirez

Signature:



Client:	Matador Resources	Inspection Date:		
Site Location Name:	Dinero 5	Report Run Date:	4/13/2021 9:23 PM	
Client Contact Name:	John Hurt	API #:		
Client Contact Phone #:				
Unique Project ID		Project Owner:		
Project Reference #		Project Manager:		
		Summary of	Times	
Arrived at Site				
Departed Site	4/13/2021 3:00 PM			
		Field Not	es	

7:38 Arrived on site, filled out safety paperwork and began dfr

13:00 Continue backfill of excavation

Next Steps & Recommendations

1 Finish backfill tomorrow morning



Site Photos



Backfill area





Backfill area



Backfill area









Backfill



Completion of backfill



Remainder of what's left to backfill





Remainder of backfill to be completed



Daily Site Visit Signature

Inspector: John Ramirez

Signature: Signature

ATTACHMENT 5

Monica Peppin

From: Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Sent: Monday, March 15, 2021 8:56 AM

To: EMNRD-OCD-District1spills; Enviro, OCD, EMNRD; Griswold, Jim, EMNRD; Bratcher,

Mike, EMNRD; spills@slo.state.nm.us; rmann@slo.state.nm.us

Cc: Monica Peppin

Subject: nAPP2105530312 Dinero State 5 48HR Notification of Confirmatory Sampling

All,

Please accept this email as 48-hour notification that Vertex Resource Services has scheduled confirmatory sampled to be conducted at Dinero State #005 for the following release:

nAPP2105530312 DOR: February 23, 2021

On Wednesday, March 17, 2021 at approximately 8:00 AM, John Ramirez will be onsite to conduct confirmatory sampling while excavation is ongoing and could go into the following week. He can be reached at 575-725-1809, 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

Monica Peppin

Project Manager in Training

Vertex Resource Group Ltd. 3101 Boyd Drive, Carlsbad, NM 88220

P 575.725.5001 Ext. 711 C 575.361.9880

www.vertex.ca

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Monica Peppin

From: Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Sent: Wednesday, April 7, 2021 7:20 AM

To: Enviro, OCD, EMNRD; Griswold, Jim, EMNRD; spills@slo.state.nm.us;

rmann@slo.state.nm.us; Hamlet, Robert, EMNRD

Cc: Monica Peppin; Arsenio Jones; Billings, Bradford, EMNRD; Bratcher, Mike, EMNRD **Subject:** nAPP2105530312 Dinero State 5 48HR Notification of Confirmatory Sampling

All,

Please accept this email as 48-hour notification that Vertex Resource Services has scheduled confirmatory sampled to be conducted at Dinero State #005 for the following release:

nAPP2105530312 DOR: February 23, 2021

On Monday, April 12, 2021 at approximately 8:00 AM, John Ramirez will be onsite to conduct additional confirmatory sampling with possible further excavation. He can be reached at 575-725-1809, 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

Monica Peppin

Project Manager in Training

Vertex Resource Group Ltd. 3101 Boyd Drive, Carlsbad, NM 88220

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Dhugal Hanton <vertexresourcegroupusa@gmail.com>

48HR Notification of Confirmatory sampling Dinero St 5 nAPP2105530312

2 messages

Dhugal Hanton <vertexresourcegroupusa@gmail.com>
Thu, Apr 22, 2021 at 2:44 PM To: "Enviro, OCD, EMNRD" <OCD.Enviro@state.nm.us>, spills@slo.state.nm.us, arsenio.jones@matadorresources.com, csnow@matadorresources.com

All,

Please accept this email as 48-hour notification that Vertex Resource Services has scheduled additional confirmatory sampled to be conducted at Dinero State #005 for the following release:

nAPP2105530312 DOR: February 23, 2021

On Tuesday, April 27, 2021 at approximately 8:00 AM, John Ramirez will be onsite to conduct additional confirmatory sampling. He can be reached at 575-725-1809, 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

Monica Peppin

Project Manager

Vertex Resource Group Ltd. 3101 Boyd Drive, Carlsbad, NM 88220

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Dhugal Hanton <vertexresourcegroupusa@gmail.com> To: mpeppin@vertex.ca

Thu, Apr 22, 2021 at 2:45 PM

[Quoted text hidden]

ATTACHMENT 6

Client Name: Matador Production Company

Site Name: Dinero State #5 NM OCD Incident Tracking Numbers:

Project #: 21E-00087-006

Lab Report: 2102B85, 2102B86, 2102B88, 2102C53

	Camaria December 1					ratory Resu	ιτs - Depth		water <50				
	Sample Descripti	ion T	F	ield Screenii	ng I	1/-1	atile	Petrol	eum Hydroc	arbons Extractable			Inorgani
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds (PID)	Extractable Organic Compounds (Petro Flag)	Inorganics (Quantab - High/Low)	Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	Chloride
			(ppm)	(ppm)	(+/-)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg
BH21-01	0-0.5	February 23, 2021	-	-	1,123	<0.024	<0.22	<4.9	<9.6	<48	<14.5	<62.5	<60
BH21-02	0-0.5	February 23, 2021	-	-	2,844	-	-	-	-	-	-	-	-
BH21-03	0-0.5	February 23, 2021	-	-	1,029	<0.025	<0.221	<4.9	<9.2	<46	<14.1	<60.1	150 -
BH21-04	0-0.5 0-0.5	February 23, 2021	-	-	2,122	<0.025	<0.225	<5.0	<9.1	<45	<14.1	<59.1	370
BH21-05 BH21-06	0-0.5	February 23, 2021 February 23, 2021	-	-	1,029 3,223		- <0.225	- <5.0	- (9.1		- 14.1	<59.1 -	370
BH21-07	0-0.5	February 23, 2021			735	<0.024	<0.216	<4.8	<9.3	<47	<14.1	<61.1	<60
BH21-08	0-0.5	February 23, 2021		_	3,121	-	-	-	-	-	-	-	-
BH21-09	0-0.5	February 23, 2021	-	-	2,028	-	-	-	-	-	-	-	-
BH21-10	0-0.5	February 23, 2021	-	-	1,034	-	-	-	-	-	-	-	-
BH21-11	0-0.5	February 23, 2021	-	-	428	-	-	-	-	-	-	-	-
BH21-12	0-0.5	February 23, 2021			2,952				_	_	_	_	
BH21-13	0-0.5	February 23, 2021	-	-	2,871	<0.025	<0.222	<4.9	<9.7	<48	<14.6	<62.6	<60
BH21-14	0-0.5	February 23, 2021	-	-	2,852	-	-	-	-	-	-	-	-
BH21-15	0-0.5	February 23, 2021	-	-	1,755	-	-	-	-	-	-	-	-
BH21-16	0-0.5	February 23, 2021	-	-	1,556	-	-	-	-	-	-	-	-
BH21-17	0-0.5	February 23, 2021	-	-	441	<0.025	<0.225	<5.0	<8.7	<44	<13.7	<57.7	<59
BH21-18	0-0.5	February 23, 2021	-	-	4,179	-	-	-	-	-	-	-	-
BH21-19	0-0.5	February 23, 2021		-	2,808	-	-	-	-	-	-	-	-
BH21-20	0-0.5	February 23, 2021	· ·	-	1,640	-	-	-	-	-	-	-	
BH21-21	0-0.5	February 23, 2021	-	-	3,311	<0.024	<0.22	<4.9	<9.6	<48	<14.5	<62.5	330
BH21-22	0-0.5	February 23, 2021	-	-	1,398	-	-	-	-	-	-	-	-
BH21-23	0-0.5	February 23, 2021	-	-	2,350	-	-	-	-	-	-	-	
BH21-24	0-0.5 0-0.5	February 23, 2021	-	-	3,424	<0.024	<0.217	<4.8	13	- <49	13	13	- 520
BH21-25 BH21-26	0-0.5	February 23, 2021	-	-	3,692 3,476		- <0.217	- 4.0	- 15		- 15	- 15	- 520
BH21-27	0-0.5	February 23, 2021 February 23, 2021		_	1,682	<0.025	<0.222	<4.9	<9.8	<49	<14.7	<63.7	100
BH21-28	0-0.5	February 23, 2021		_	865	-	- 10.222	-		-	-		-
BH21-29	0-0.5	February 23, 2021	-	-	2,591	-	-	-	-	-	-	-	-
BH21-30	0-0.5	February 23, 2021	-	-	3,101	<0.024	<0.219	<4.9	<9.4	<47	<14.3	<61.3	<60
BH21-31	0-0.5	February 23, 2021	-	-	1,861	-	-	-	-	-	-	-	-
BH21-32	0	February 25, 2021	-	-	1,740	<0.12	<1.04	180	17,000	<4900	17,180	17,180	380
BH21-32	0.5	February 25, 2021	-	-	3,069	-	-	-	-	-	-	-	-
BH21-32	1	February 25, 2021	-	-	3,083	-	-	-	-	-	-	-	-
BH21-32	2	February 25, 2021	-	-	3,112	-	-	-	-	-	-	-	-
BH21-32	3	February 25, 2021	-	-	3,171	<0.025	<0.225	<5.0	59	<48	59	59	96
BH21-33	0	February 25, 2021	<u> </u>	-	1,666	<0.12	<1.04	490	20,000	<5000	20,490	20,490	<60
BH21-33	0.5	February 25, 2021	-	-	2,653	-	-	-	-	-	-	-	
BH21-33	1	February 25, 2021	-	-	3,151	-	-	-	-	-	-	-	-
BH21-33	2	February 25, 2021	-	-	3,049		-0.217	- /1 9	96	- /10	96	- 96	- 70
BH21-33	3 0	February 25, 2021	-	-	3,316	<0.024	<0.217	<4.8	_	<48 <5000			_
BH21-34 BH21-34	0.5	February 25, 2021 February 25, 2021	-	-	1,818 934	<0.12	<1.11	400	12,000	<5000	12,400	12,400	250
BH21-34	1	February 25, 2021	-	-	3,150	-	-	-	-	-	-	-	<u> </u>
BH21-34	2	February 25, 2021	-	-	3,506	-	-	-	-	-	-	-	
BH21-34	3	February 25, 2021	-	-	3,496	<0.025	<0.221	<4.9	52	<49	52	52	350
BH21-35	0	February 25, 2021	-	-	1,367	<0.12	<1.07	390	12,000	<4800	12,390	12,390	330
BH21-35	0.5	February 25, 2021	-	-	3,827		-	-	-	-	-	-	-
BH21-35	1	February 25, 2021	-	-	1,820	-	-	-	-	-	-	-	-
BH21-35	2	February 25, 2021	-	-	3,586	-	-	-	-	-	-	-	-
BH21-35	3	February 25, 2021	-	-	3,472	<0.025	<0.221	<4.9	13	<48	13	13	570
BH21-36	0	February 25, 2021	-	-	2,875	<0.12	<1.09	470	16,000	<5000	16,470	16,470	1,400
BH21-36	0.5	February 25, 2021	-	-	3,593	-	-	-	-	-	-	-	-
BH21-36	1	February 25, 2021	-	-	3,441	-	-	-	-	-	-	-	-
BH21-36	2	February 25, 2021	-	-	3,587	-	-	-	-	-	-	-	-
BH21-36	3	February 25, 2021	-	-	3,496	<0.024	<0.219	<4.9	52	<47	-	52	210
BG21-01	0	February 23, 2021	<u> </u>	-	2,624	<0.025	<0.225	<5.0	<9.8	<49	<14.8	<63.8	<60
BG21-01	0.5	February 23, 2021	-	-	2,735	<0.025	<0.222	<4.9	<9.7	<48	<14.6	<62.6	<60



Client Name: Matador Production Company

Site Name: Dinero State #5

NM OCD Incident Tracking Numbers:

Project #: 21E-00087-006

Lab Report: 2102B85, 2102B86, 2102B88, 2102C53

		Table 2. (Characteriz	ation Samp	oling Labor	atory Resu	lts - Depth	to Ground	water <50 f	ft			
	Sample Descripti	ion	F	ield Screenii	ng			Petrol	eum Hydroc	arbons			Inorganic
				_		Vol	atile			Extractable	1		Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds (PID)	Extractable Organic Compounds (Petro Flag)	Inorganics (Quantab - High/Low)	Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	Chloride
			(ppm)	(ppm)	(+/-)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BG21-01	1	February 23, 2021	-	-	2,779	<0.025	<0.224	<5.0	<9.8	<49	<14.8	<63.8	<61
BG21-01	2	February 23, 2021	-	-	3,078	<0.025	<0.225	<5.0	<9.7	<49	<14.7	<63.7	79
BG21-02	0	February 23, 2021	-	-	169	<0.024	<0.219	<4.9	11	<46	11	11	<60
BG21-02	0.5	February 23, 2021	-	-	529	<0.025	<0.221	<4.9	<9.8	<49	<14.7	<63.7	<60
BG21-02	1	February 23, 2021	-	-	2,252	<0.025	<0.224	<5.0	<9.9	<49	<14.9	<63.9	210
BG21-02	2	February 23, 2021	-	-	2,925	<0.025	<0.225	<5.0	<9.4	<47	<14.4	<61.4	<60

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

Bold and shaded indicates exceedance outside of applied action level



Client Name: Matador Resources Site Name: Dinero State #005

NM OCD Incident Tracking Number: nAPP2105530312

Project #: 21E-00087-006

Lab Report: 2103B28, 2103B84, 2104599, 2104C28

	Camarla Dassaintian	Table 3. Confire	- 	-	Date	alama Huduaaa				
	Sample Description	1			Petro	oleum Hydroca				Inorgar
Sample ID	Depth (ft)	Sample Date	Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	Chloride
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/k
BS21-01	2.5	March 22, 2021	<0.024	<0.215	<4.8	<9.6	<48	<14.4	<62.4	110
BS21-02	2.5	March 22, 2021	<0.025	<0.221	<4.9	18	<49	18	18	<59
BS21-03	2.5	March 22, 2021	<0.024	<0.216	<4.8	<9.6	<48	<14.4	<62.4	170
BS21-04	2.5	March 23, 2021	<0.024 <0.025	<0.213 <0.222	<4.7 <4.9	10 <9.8	<46 <49	10 <14.7	10 <63.7	73 <60
BS21-05 BS21-06	2.5 2.5	March 23, 2021 March 22, 2021	<0.023	<0.222	<4.8	14	<47	14.7	14	160
BS21-00	2.5	March 23, 2021	<0.024	<0.215	<5.0	<9.5	<47	<14.5	<61.5	99
BS21-07	2.5	March 23, 2021	<0.023	<0.21	<4.7	<9.3	<47	<14.5	<61	100
BS21-09	2.5	March 22, 2021	<0.024	<0.213	<4.7	11	<49	11	11	350
BS21-10	2.5	March 22, 2021	<0.025	<0.224	<5.0	27	<47	27	27	91
BS21-11	2.5	March 22, 2021	<0.024	<0.217	<4.8	360	83	360	443	99
BS21-11	2.5	April 12, 2021	<0.024	<0.217	<4.8	<9.7	<49	<14.5	<63.5	210
BS21-12	2.5	March 23, 2021	<0.024	<0.219	<4.9	32	<49	32	32	330
BS21-13	2.5	March 22, 2021	<0.025	<0.221	<4.9	13	<49	13	13	<60
BS21-14	2.5	March 22, 2021	<0.025	<0.222	<4.9	190	<49	190	190	<59
BS21-14	2.5	April 12, 2021	<0.025	<0.221	<4.9	15	<49	15	15	62
BS21-15	2.5	March 23, 2021	<0.025	<0.221	<4.9	<10	<50	<14.9	<64.9	300
BS21-16	2.5	March 23, 2021	<0.025	<0.224	<5.0	37	<48	37	37	500
BS21-17	2.5	March 23, 2021	<0.024	<0.22	<4.9	12	<49	12	12	62
BS21-18	2.5	March 22, 2021	<0.025	<0.224	<5.0	<9.5	<47	<14.5	<47	340
BS21-19	2.5	March 22, 2021	<0.025	<0.225	<5.0	<9.9	<50	<14.9	<64.9	110
BS21-20	2.5	March 22, 2021	<0.024	<0.22	<4.9	160	<47	160	160	<60
BS21-20	2.5	April 12, 2021	<0.024	<0.215	<4.8	14	<44	14	14	80
BS21-21	2.5	March 23, 2021	<0.024	<0.212	<4.7	21	<48	21	21	77
BS21-22	2.5	March 23, 2021	<0.024	<0.22	<4.9	13	<48	13	13	100
BS21-23	2.5	March 23, 2021	<0.024	<0.22	<4.9	<9.6	<48	<14.5	<62.5	140
BS21-24	2.5	March 23, 2021	<0.025	<0.225	<5.0	<9.5	<47	<14.5	<61.5	87
BS21-25 BS21-26	2.5 2.5	March 23, 2021 March 23, 2021	<0.024	<0.216	<4.8	<9.6	<48	<14.4 180	<62.4 180	190
BS21-26	2.5	April 12, 2021	<0.12 <0.024	<1.08 <0.22	<24 <4.9	180 <9.6	<49 <48	<14.5	<62.5	180 280
BS21-27	2.5	March 23, 2021	<0.024	<0.22	<4.9	93	<48	93	93	460
BS21-28	2.5	March 23, 2021	<0.025	<0.224	<5.0	<9.7	<48	<14.7	<62.7	85
BS21-29	2.5	March 23, 2021	<0.024	<0.22	<4.9	19	<47	19	19	260
BS21-30	2.5	March 23, 2021	<0.024	<0.22	<4.9	<8.9	<45	<13.8	<58.8	90
BS21-31	0.5	March 23, 2021	<0.023	<0.207	<4.6	<9.3	<47	<13.9	<60.9	<59
BS21-32	0.5	March 22, 2021	<0.025	<0.225	<5.0	9.8	<48	9.8	9.8	64
BS21-33	2.5	March 23, 2021	<0.024	<0.216	<4.8	<9.9	<50	<14.7	<64.7	290
BS21-34	2.5	March 23, 2021	<0.024	<0.212	<4.7	<10	<50	<14.7	<64.7	180
BS21-35	2.5	March 23, 2021	<0.024	<0.219	<4.9	<10	<50	<14.9	<64.9	70
BS21-36	2.5	March 23, 2021	<0.024	<0.217	<4.8	<10	<50	<14.8	<64.8	80
BS21-37	2.5	March 23, 2021	<0.025	<0.221	<4.9	42	<47	42	42	130
BS21-38	2.5	March 23, 2021	<0.025	<0.222	<4.9	13	<48	13	13	250
BS21-39	2.5	March 23, 2021	<0.025	<0.224	<5.0	13	<50	13	13	<60
BS21-40	2.5	March 23, 2021	<0.025	<0.224	<5.0	<9.7	<48	<14.7	<62.7	<60
WS21-01	0-2.5	March 23, 2021	<0.024	<0.216	<4.8	<10	<50	<14.8	<64.8	86
WS21-02	0-2.5	March 23, 2021	<0.025	<0.225	<5.0	<9.6	<48	<14.6	<62.6	77
WS21-03	0-2.5	March 23, 2021	<0.025 <0.025	<0.221 <0.222	<4.9 <4.9	<9.9 <9.9	<50 <49	<14.8	<64.8 <63.8	420 170
WS21-04	0-2.5	March 23, 2021	<0.025			-		<14.8 12	<63.8 12	
WS21-05	0-2.5	March 23, 2021	<0.024	<0.216 <0.22	<4.8 <4.9	12 <10	<50 <51	<14.9	<65.9	320 65
WS21-06	0-2.5	March 23, 2021	<0.024	<0.22	<4.9 <4.9	<9.7	<51 <48	<14.9 <14.6	<62.6	120
WS21-07 WS21-08	0-2.5 0-2.5	April 27, 2021 March 23, 2021	<0.024	<0.22	<4.9 <4.9	<9.7	<48	<14.5	<62.5	95
WS21-08 WS21-09	0-2.5	March 23, 2021	<0.025	<0.221	<4.9	59	<49	59	59	<60
WS21-09	0-0.5	March 23, 2021	<0.024	<0.221	<4.9	10	<49	10	10	<60
WS21-10	0-0.5	March 23, 2021	<0.024	<0.216	<4.8	57	<50	57	57	64
WS21-12	0-2.5	March 23, 2021	<0.024	<0.210	<4.7	<10	<50	<14.7	<64.7	<61
WS21-13	0-2.5	March 23, 2021	<0.024	<0.217	<4.8	16	<47	16	16	<60
WS21-14	0-2.5	March 23, 2021	<0.024	<0.22	<4.9	<9.4	<47	<14.3	<61.3	<59



Client Name: Matador Resources Site Name: Dinero State #005

NM OCD Incident Tracking Number: nAPP2105530312

Project #: 21E-00087-006

Lab Report: 2103B28, 2103B84, 2104599, 2104C28

		Table 3. Confirm	matory Samplin	g Laboratory Re	esults - Depth to	o Groundwater	<50 feet			
	Sample Description				Petro	oleum Hydroca	rbons			Inorganic
			Vol	atile			Extractable			illorganic
Sample ID	Depth (ft)	Sample Date	Benzene	ВТЕХ (Тоtal)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	Chloride
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
WS21-15	0-2.5	March 23, 2021	<0.024	<0.216	<4.8	13	<45	13	13	<60
WS21-16	0-2.5	March 23, 2021	<0.023	<0.211	<4.7	35	<47	35	35	<59
WS21-17	0-2.5	March 23, 2021	<0.025	<0.224	<5.0	<9.5	<48	<14.5	<62.5	98
WS21-18	0-2.5	March 23, 2021	<0.025	<0.224	<5.0	<9.2	<46	<14.2	<60.2	910
WS21-18	0-2.5	April 12, 2021	<0.025	<0.225	<5.0	<9.7	<48	<14.7	<62.7	220
WS21-19	0-2.5	March 23, 2021	<0.025	<0.225	<5.0	<9.5	<48	<14.5	<62.5	590
WS21-20	0-2.5	March 22, 2021	<0.025	<0.225	<5.0	<9.4	<47	<14.4	<61.4	<60
WS21-21	0-2.5	March 22, 2021	<0.025	<0.222	<4.9	<9.1	<45	<14	<59	100
WS21-22	0-2.5	March 23, 2021	<0.024	<0.217	<4.8	<9.6	<48	<14.4	<62.4	570
WS21-23	0-2.5	March 22, 2021	<0.025	<0.225	<5.0	<9.5	<47	<14.5	<61.5	<60
WS21-24	0-2.5	March 22, 2021	<0.024	<0.22	<4.9	24	<49	24	24	<60
WS21-25	0-2.5	March 23, 2021	<0.025	<0.225	<5.0	<9.3	<47	<14.3	<61.3	<60
WS21-26	0-2.5	March 23, 2021	<0.00025	<0.00222	<0.049	13	<47	13	13	<60
WS21-27	0-2.5	March 23, 2021	<0.025	<0.221	<4.9	<9.8	<49	<14.7	<63.7	130
WS21-28	0-2.5	March 23, 2021	<0.024	<0.217	<4.8	<10	<50	<14.8	<64.8	97

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

Bold and shaded indicates exceedance outside of applied action level



ATTACHMENT 7



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

March 03, 2021

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

FAX

RE: Dinero State 005 OrderNo.: 2102B85

Dear Monica Peppin:

Hall Environmental Analysis Laboratory received 4 sample(s) on 2/26/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 3/3/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd. Client Sample ID: BG21-01 0

 Project:
 Dinero State 005
 Collection Date: 2/23/2021 10:30:00 AM

 Lab ID:
 2102B85-001
 Matrix: SOIL
 Received Date: 2/26/2021 7:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: mb
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	3/1/2021 11:00:54 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	3/1/2021 11:00:54 PM
Surr: DNOP	80.9	70-130	%Rec	1	3/1/2021 11:00:54 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	ND	60	mg/Kg	20	3/2/2021 10:50:11 AM
EPA METHOD 8260B: VOLATILES SHORT LIS	т				Analyst: JMR
Benzene	ND	0.025	mg/Kg	1	3/2/2021 5:39:39 AM
Toluene	ND	0.050	mg/Kg	1	3/2/2021 5:39:39 AM
Ethylbenzene	ND	0.050	mg/Kg	1	3/2/2021 5:39:39 AM
Xylenes, Total	ND	0.10	mg/Kg	1	3/2/2021 5:39:39 AM
Surr: 1,2-Dichloroethane-d4	90.7	70-130	%Rec	1	3/2/2021 5:39:39 AM
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	3/2/2021 5:39:39 AM
Surr: Dibromofluoromethane	99.7	70-130	%Rec	1	3/2/2021 5:39:39 AM
Surr: Toluene-d8	100	70-130	%Rec	1	3/2/2021 5:39:39 AM
EPA METHOD 8015D MOD: GASOLINE RANG	E				Analyst: JMR
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	3/2/2021 5:39:39 AM
Surr: BFB	96.5	70-130	%Rec	1	3/2/2021 5:39:39 AM

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

Qualifiers:

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

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

Page 1 of 9

Date Reported: 3/3/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd. Client Sample ID: BG21-01 0.5

 Project:
 Dinero State 005
 Collection Date: 2/23/2021 10:35:00 AM

 Lab ID:
 2102B85-002
 Matrix: SOIL
 Received Date: 2/26/2021 7:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst: mb
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	3/2/2021 10:13:14 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	3/2/2021 10:13:14 AM
Surr: DNOP	77.9	70-130	%Rec	1	3/2/2021 10:13:14 AM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	ND	60	mg/Kg	20	3/2/2021 11:52:14 AM
EPA METHOD 8260B: VOLATILES SHORT L	LIST				Analyst: JMR
Benzene	ND	0.025	mg/Kg	1	3/2/2021 6:08:22 AM
Toluene	ND	0.049	mg/Kg	1	3/2/2021 6:08:22 AM
Ethylbenzene	ND	0.049	mg/Kg	1	3/2/2021 6:08:22 AM
Xylenes, Total	ND	0.099	mg/Kg	1	3/2/2021 6:08:22 AM
Surr: 1,2-Dichloroethane-d4	90.3	70-130	%Rec	1	3/2/2021 6:08:22 AM
Surr: 4-Bromofluorobenzene	97.0	70-130	%Rec	1	3/2/2021 6:08:22 AM
Surr: Dibromofluoromethane	107	70-130	%Rec	1	3/2/2021 6:08:22 AM
Surr: Toluene-d8	99.9	70-130	%Rec	1	3/2/2021 6:08:22 AM
EPA METHOD 8015D MOD: GASOLINE RAN	IGE				Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/2/2021 6:08:22 AM
Surr: BFB	95.6	70-130	%Rec	1	3/2/2021 6:08:22 AM

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

Qualifiers:

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

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

Page 2 of 9

Date Reported: 3/3/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd. Client Sample ID: BG21-01 1

 Project:
 Dinero State 005
 Collection Date: 2/23/2021 10:40:00 AM

 Lab ID:
 2102B85-003
 Matrix: SOIL
 Received Date: 2/26/2021 7:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OI	RGANICS				Analyst: mb
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	3/1/2021 11:19:30 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	3/1/2021 11:19:30 PM
Surr: DNOP	71.3	70-130	%Rec	1	3/1/2021 11:19:30 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	ND	61	mg/Kg	20	3/2/2021 12:04:38 PM
EPA METHOD 8260B: VOLATILES SHORT I	LIST				Analyst: JMR
Benzene	ND	0.025	mg/Kg	1	3/2/2021 6:37:09 AM
Toluene	ND	0.050	mg/Kg	1	3/2/2021 6:37:09 AM
Ethylbenzene	ND	0.050	mg/Kg	1	3/2/2021 6:37:09 AM
Xylenes, Total	ND	0.099	mg/Kg	1	3/2/2021 6:37:09 AM
Surr: 1,2-Dichloroethane-d4	86.5	70-130	%Rec	1	3/2/2021 6:37:09 AM
Surr: 4-Bromofluorobenzene	98.6	70-130	%Rec	1	3/2/2021 6:37:09 AM
Surr: Dibromofluoromethane	98.6	70-130	%Rec	1	3/2/2021 6:37:09 AM
Surr: Toluene-d8	104	70-130	%Rec	1	3/2/2021 6:37:09 AM
EPA METHOD 8015D MOD: GASOLINE RAM	NGE				Analyst: JMR
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	3/2/2021 6:37:09 AM
Surr: BFB	97.3	70-130	%Rec	1	3/2/2021 6:37:09 AM

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

Qualifiers:

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

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

Page 3 of 9

Date Reported: 3/3/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd. Client Sample ID: BG21-01 2

 Project:
 Dinero State 005
 Collection Date: 2/23/2021 10:45:00 AM

 Lab ID:
 2102B85-004
 Matrix: SOIL
 Received Date: 2/26/2021 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS					Analyst: mb
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	3/1/2021 11:28:53 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/1/2021 11:28:53 PM
Surr: DNOP	133	70-130	S	%Rec	1	3/1/2021 11:28:53 PM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	79	60		mg/Kg	20	3/2/2021 12:17:02 PM
EPA METHOD 8260B: VOLATILES SHORT LIS	Т					Analyst: JMR
Benzene	ND	0.025		mg/Kg	1	3/2/2021 7:05:48 AM
Toluene	ND	0.050		mg/Kg	1	3/2/2021 7:05:48 AM
Ethylbenzene	ND	0.050		mg/Kg	1	3/2/2021 7:05:48 AM
Xylenes, Total	ND	0.10		mg/Kg	1	3/2/2021 7:05:48 AM
Surr: 1,2-Dichloroethane-d4	82.3	70-130		%Rec	1	3/2/2021 7:05:48 AM
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	3/2/2021 7:05:48 AM
Surr: Dibromofluoromethane	101	70-130		%Rec	1	3/2/2021 7:05:48 AM
Surr: Toluene-d8	101	70-130		%Rec	1	3/2/2021 7:05:48 AM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: JMR
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/2/2021 7:05:48 AM
Surr: BFB	95.2	70-130		%Rec	1	3/2/2021 7:05:48 AM

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

Qualifiers:

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

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

Page 4 of 9

Hall Environmental Analysis Laboratory, Inc.

WO#: **2102B85**

03-Mar-21

Client: Vertex Resource Group Ltd.

Project: Dinero State 005

Sample ID: MB-58416 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 58416 RunNo: 75643

Prep Date: 3/1/2021 Analysis Date: 3/2/2021 SeqNo: 2674814 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-58416 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 58416 RunNo: 75643

Prep Date: 3/1/2021 Analysis Date: 3/2/2021 SeqNo: 2674815 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 15 1.5 15.00 0 96.8 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 Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 5 of 9

Hall Environmental Analysis Laboratory, Inc.

WO#: 2102B85 03-Mar-21

Client: Vertex Resource Group Ltd.

Project: Dinero State 005

Sample ID: MB-58373 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 58373 RunNo: 75595

Prep Date: 2/27/2021 Analysis Date: 3/1/2021 SeqNo: 2672573 Units: %Rec

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result LowLimit HighLimit Qual

Surr: DNOP 12 10.00 117 70 130

Sample ID: MB-58379 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 58379 RunNo: 75595

Prep Date: 2/27/2021 Analysis Date: 3/1/2021 SeqNo: 2672574 Units: %Rec

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result PQL LowLimit HighLimit Qual

Surr: DNOP 13 10.00 133 130 S

Sample ID: LCS-58373 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 58373 RunNo: 75595

Prep Date: 2/27/2021 Analysis Date: 3/1/2021 SeqNo: 2672575 Units: %Rec

Analyte Result POL SPK value SPK Ref Val %REC HighLimit %RPD RPDI imit Qual LowLimit

Surr: DNOP 5.000 105 70

Sample ID: LCS-58379 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 58379 RunNo: 75595

Prep Date: 2/27/2021 Analysis Date: 3/1/2021 SeqNo: 2672576 Units: %Rec

Analyte Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Surr: DNOP 6.4 5.000 128 70 130

Sample ID: MB-58372 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 58372 RunNo: 75595

Prep Date: 2/27/2021 Analysis Date: 3/1/2021 SeqNo: 2673430 Units: mg/Kg

Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Diesel Range Organics (DRO) ND 10 Motor Oil Range Organics (MRO) ND 50

Surr: DNOP 7.5 10.00 75.0 70 130

Sample ID: MB-58377 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Batch ID: 58377 Client ID: PBS RunNo: 75595

Prep Date: 2/27/2021 Analysis Date: 3/1/2021 SeqNo: 2673431 Units: %Rec

PQL SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result LowLimit HighLimit Qual

Surr: DNOP 12 10.00 117 70 130

Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

POL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Limit Page 6 of 9

Hall Environmental Analysis Laboratory, Inc.

WO#: **2102B85**

03-Mar-21

Client: Vertex Resource Group Ltd.

Project: Dinero State 005

Sample ID: LCS-58377 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 58377 RunNo: 75595

Prep Date: 2/27/2021 Analysis Date: 3/1/2021 SeqNo: 2673433 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Surr: DNOP
 5.9
 5.000
 118
 70
 130

Sample ID: LCS-58372 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 58372 RunNo: 75653

Prep Date: 2/27/2021 Analysis Date: 3/2/2021 SeqNo: 2675522 Units: mg/Kg

SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result LowLimit Qual Diesel Range Organics (DRO) 49 10 50.00 97.7 68.9 141 Surr: DNOP 4.8 5.000 96.4 70 130

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2102B85**

03-Mar-21

Client: Vertex Resource Group Ltd.

Project: Dinero State 005

Sample ID: Ics-58368	Sample ID: Ics-58368 SampType: L				tCode: El	PA Method	8260B: Vola	tiles Short	List		
Client ID: BatchQC	Batcl	n ID: 58 3	368	RunNo: 75617							
Prep Date: 2/26/2021	Analysis D	Date: 3/2	2/2021	SeqNo: 2673807			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	104	80	120				
Toluene	1.0	0.050	1.000	0	104	80	120				
Ethylbenzene	1.1	0.050	1.000	0	106	80	120				
Xylenes, Total	3.3	0.10	3.000	0	110	80	120				
Surr: 1,2-Dichloroethane-d4	0.45		0.5000		90.5	70	130				
Surr: 4-Bromofluorobenzene	0.47		0.5000		94.8	70	130				
Surr: Dibromofluoromethane	0.52		0.5000		104	70	130				
Surr: Toluene-d8	0.52		0.5000		105	70	130				

Sample ID: mb-58368	Samp ⁻	SampType: MBLK			TestCode: EPA Method 8260B: Volatiles Short List							
Client ID: PBS	Batch ID: 58368 Analysis Date: 3/2/2021			F	RunNo: 75617							
Prep Date: 2/26/2021				S	SeqNo: 2673808 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: 1,2-Dichloroethane-d4	0.46		0.5000		91.9	70	130					
Surr: 4-Bromofluorobenzene	0.50		0.5000		99.2	70	130					
Surr: Dibromofluoromethane	0.50		0.5000		99.6	70	130					
Surr: Toluene-d8	0.52		0.5000		103	70	130					

Qualifiers:

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

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

Page 8 of 9

Hall Environmental Analysis Laboratory, Inc.

WO#: **2102B85**

03-Mar-21

Client: Vertex Resource Group Ltd.

Project: Dinero State 005

Sample ID: Ics-58368 SampType: LCS TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: LCSS Batch ID: 58368 RunNo: 75617

Prep Date: 2/26/2021 Analysis Date: 3/2/2021 SeqNo: 2673831 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Gasoline Range Organics (GRO)
 22
 5.0
 25.00
 0
 87.4
 70
 130

 Surr: BFB
 470
 500.0
 93.7
 70
 130

Sample ID: mb-58368 SampType: MBLK TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: PBS Batch ID: 58368 RunNo: 75617

Prep Date: 2/26/2021 Analysis Date: 3/2/2021 SeqNo: 2673833 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) ND 5.0

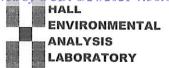
Surr: BFB 480 500.0 96.0 70 130

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 Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

Sample Log-In Check List

Client Name:	Vertex Resource Group Ltd.	Work Order Numb	oer: 210	2B85			RcptNo:	1
Received By:	Juan Rojas	2/26/2021 7:55:00 A	AM		Hans	g		
Completed By:	Desiree Dominguez	2/26/2021 9:04:58 A	ΑM		1	>		
Reviewed By:	JR 2/26/21							
Chain of Cus	stody							
1. Is Chain of C	ustody complete?		Yes	\checkmark	No		Not Present	
2. How was the	sample delivered?		Cou	rier				
Log In								
	npt made to cool the samples?		Yes	V	No [NA 🗌	
4. Were all sam	ples received at a temperature	of >0° C to 6.0°C	Yes	✓	No [NA 🗆	
5. Sample(s) in	proper container(s)?		Yes	V	No [П		
Parket Victoria	1-7							
6. Sufficient san	nple volume for indicated test(s	s)?	Yes	✓	No [
7. Are samples	(except VOA and ONG) proper	ly preserved?	Yes	V	No [
8. Was preserva	tive added to bottles?		Yes		No 🛭	/	NA 🗌	
9. Received at le	east 1 vial with headspace <1/-	4" for AQ VOA?	Yes		No [NA 🗸	TO
10. Were any sar	mple containers received broke	en?	Yes		No [V	# of preserved	4 1
44 =						_	bottles checked	2/26/21
	ork match bottle labels? ancies on chain of custody)		Yes		No L	_	for pH: (<2 or	>12 unless noted)
AND THE RESERVE TO THE RESERVE	correctly identified on Chain of	Custody?	Yes	V	No [Adjusted?	
	t analyses were requested?	Colonia Actividado de 🚨 III.	Yes	V	No [
	ng times able to be met?		Yes	✓	No [Checked by:	
(If no, notify c	ustomer for authorization.)					L		
Special Handl	ling (if applicable)							
15. Was client no	otified of all discrepancies with	this order?	Yes		No [NA 🗸	
Person	Notified:	Date:		Service Constitution of	The supplemental s	annetter,		
By Who	om:	Via:	eM	ail 🗌	Phone []	Fax	☐ In Person	
Regard	ing:	THE SOLICE OF THE PARTY OF THE	COTTON DESCRIPTION OF THE PARTY	THE PERSON NAMED IN	CONTRACTOR CONTRACTOR TO	namen men	NOTION SERVICE AND SERVICE AND SERVICE ASSESSED.	
Client I	nstructions:				UID NOOSE TE BENEZIARI VALLEGES	nare de una rico en	THE THE BANK SETTING A STREET CONTRACT AND C	
16. Additional re	marks:							
17. Cooler Infor	rmation							
Cooler No		eal Intact Seal No	Seal D	ate	Signed By	у		
1	0.3 Good]		

Received by OCD: 6/24/2021 4	:36:09 PM			Page 98 of 271
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 EDB (Method 504.1) PAHs by 8310 or 8270SIMS RCRA 8 Metals			Remarks: ((, Morica Peppin) Morta of or possibility. Any sub-contracted data will be clearly notated on the analytical report.
4 F	(1508) RIBE \ TMB's (8021) (09M \ 09D \ 09D) (090)		>	Remarks: Mot
Turn-Around Time: S Day Standard Rush Project Name: Dinero State #005 Project #:	Project Manager: Morvica Pappi. Sampler: MTP On Ice: Artes D No # of Coolers: / Cooler Temp(including cr): 0.4-0.1=0.3 (°C) Container Preservative HEAL No. Type and # Type	402 ice -001	700-	Time: Relinquished by: Received by: Via: Date Time Remarks: Received by: Noise Date Time Received by: Noise Date Time
Chain-of-Custody Record Client: Vertex Mailing Address: On File	email or Fax#: QA/QC Package: Standard	310:30 Soil BG21-01 10:35 BG21-01 10:40 BG21-01	4	Date: Time: Relinquished by: Date: Time: Relinquished by: 345/4 400 44444 Manage Submitted to Hall Environmental may be suf-



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

March 03, 2021

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

FAX

RE: Dinero State 005 OrderNo.: 2102B86

Dear Monica Peppin:

Hall Environmental Analysis Laboratory received 4 sample(s) on 2/26/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 3/3/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd. Client Sample ID: BG21-02 0

 Project:
 Dinero State 005
 Collection Date: 2/23/2021 10:50:00 AM

 Lab ID:
 2102B86-001
 Matrix: SOIL
 Received Date: 2/26/2021 7:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: mb
Diesel Range Organics (DRO)	11	9.1	mg/Kg	1	3/1/2021 11:38:14 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	3/1/2021 11:38:14 PM
Surr: DNOP	78.0	70-130	%Rec	1	3/1/2021 11:38:14 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	ND	60	mg/Kg	20	3/2/2021 12:29:27 PM
EPA METHOD 8260B: VOLATILES SHORT LIS	ST				Analyst: JMR
Benzene	ND	0.024	mg/Kg	1	3/2/2021 7:34:20 AM
Toluene	ND	0.049	mg/Kg	1	3/2/2021 7:34:20 AM
Ethylbenzene	ND	0.049	mg/Kg	1	3/2/2021 7:34:20 AM
Xylenes, Total	ND	0.097	mg/Kg	1	3/2/2021 7:34:20 AM
Surr: 1,2-Dichloroethane-d4	89.6	70-130	%Rec	1	3/2/2021 7:34:20 AM
Surr: 4-Bromofluorobenzene	95.3	70-130	%Rec	1	3/2/2021 7:34:20 AM
Surr: Dibromofluoromethane	100	70-130	%Rec	1	3/2/2021 7:34:20 AM
Surr: Toluene-d8	99.7	70-130	%Rec	1	3/2/2021 7:34:20 AM
EPA METHOD 8015D MOD: GASOLINE RANG	SE .				Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/2/2021 7:34:20 AM
Surr: BFB	92.8	70-130	%Rec	1	3/2/2021 7:34:20 AM

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

Qualifiers:

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

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

Page 1 of 10

Date Reported: 3/3/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd. Client Sample ID: BG21-02 0.5

 Project:
 Dinero State 005
 Collection Date: 2/23/2021 10:55:00 AM

 Lab ID:
 2102B86-002
 Matrix: SOIL
 Received Date: 2/26/2021 7:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE C	RGANICS				Analyst: mb
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	3/1/2021 11:47:39 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	3/1/2021 11:47:39 PM
Surr: DNOP	79.8	70-130	%Rec	1	3/1/2021 11:47:39 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	ND	60	mg/Kg	20	3/2/2021 12:41:52 PM
EPA METHOD 8260B: VOLATILES SHORT	LIST				Analyst: JMR
Benzene	ND	0.025	mg/Kg	1	3/2/2021 8:02:50 AM
Toluene	ND	0.049	mg/Kg	1	3/2/2021 8:02:50 AM
Ethylbenzene	ND	0.049	mg/Kg	1	3/2/2021 8:02:50 AM
Xylenes, Total	ND	0.098	mg/Kg	1	3/2/2021 8:02:50 AM
Surr: 1,2-Dichloroethane-d4	84.9	70-130	%Rec	1	3/2/2021 8:02:50 AM
Surr: 4-Bromofluorobenzene	98.7	70-130	%Rec	1	3/2/2021 8:02:50 AM
Surr: Dibromofluoromethane	101	70-130	%Rec	1	3/2/2021 8:02:50 AM
Surr: Toluene-d8	105	70-130	%Rec	1	3/2/2021 8:02:50 AM
EPA METHOD 8015D MOD: GASOLINE RA	NGE				Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/2/2021 8:02:50 AM
Surr: BFB	95.7	70-130	%Rec	1	3/2/2021 8:02:50 AM

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

Qualifiers:

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

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

Page 2 of 10

Date Reported: 3/3/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd. Client Sample ID: BG21-02 1

 Project:
 Dinero State 005
 Collection Date: 2/23/2021 11:00:00 AM

 Lab ID:
 2102B86-003
 Matrix: SOIL
 Received Date: 2/26/2021 7:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: mb
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	3/1/2021 11:57:04 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	3/1/2021 11:57:04 PM
Surr: DNOP	74.6	70-130	%Rec	1	3/1/2021 11:57:04 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	210	60	mg/Kg	20	3/2/2021 12:54:16 PM
EPA METHOD 8260B: VOLATILES SHORT LIS	т				Analyst: JMR
Benzene	ND	0.025	mg/Kg	1	3/2/2021 12:50:58 PM
Toluene	ND	0.050	mg/Kg	1	3/2/2021 12:50:58 PM
Ethylbenzene	ND	0.050	mg/Kg	1	3/2/2021 12:50:58 PM
Xylenes, Total	ND	0.099	mg/Kg	1	3/2/2021 12:50:58 PM
Surr: 1,2-Dichloroethane-d4	89.6	70-130	%Rec	1	3/2/2021 12:50:58 PM
Surr: 4-Bromofluorobenzene	96.0	70-130	%Rec	1	3/2/2021 12:50:58 PM
Surr: Dibromofluoromethane	102	70-130	%Rec	1	3/2/2021 12:50:58 PM
Surr: Toluene-d8	100	70-130	%Rec	1	3/2/2021 12:50:58 PM
EPA METHOD 8015D MOD: GASOLINE RANG	E				Analyst: JMR
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	3/2/2021 12:50:58 PM
Surr: BFB	95.2	70-130	%Rec	1	3/2/2021 12:50:58 PM

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

Qualifiers:

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

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

Page 3 of 10

Date Reported: 3/3/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd. Client Sample ID: BG21-02 2

 Project:
 Dinero State 005
 Collection Date: 2/23/2021 11:05:00 AM

 Lab ID:
 2102B86-004
 Matrix: SOIL
 Received Date: 2/26/2021 7:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: mb
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	3/2/2021 12:06:32 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	3/2/2021 12:06:32 AM
Surr: DNOP	75.2	70-130	%Rec	1	3/2/2021 12:06:32 AM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	ND	60	mg/Kg	20	3/2/2021 1:06:41 PM
EPA METHOD 8260B: VOLATILES SHORT LI	ST				Analyst: JMR
Benzene	ND	0.025	mg/Kg	1	3/2/2021 1:19:34 PM
Toluene	ND	0.050	mg/Kg	1	3/2/2021 1:19:34 PM
Ethylbenzene	ND	0.050	mg/Kg	1	3/2/2021 1:19:34 PM
Xylenes, Total	ND	0.10	mg/Kg	1	3/2/2021 1:19:34 PM
Surr: 1,2-Dichloroethane-d4	89.0	70-130	%Rec	1	3/2/2021 1:19:34 PM
Surr: 4-Bromofluorobenzene	96.3	70-130	%Rec	1	3/2/2021 1:19:34 PM
Surr: Dibromofluoromethane	99.7	70-130	%Rec	1	3/2/2021 1:19:34 PM
Surr: Toluene-d8	104	70-130	%Rec	1	3/2/2021 1:19:34 PM
EPA METHOD 8015D MOD: GASOLINE RANG	GE .				Analyst: JMR
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	3/2/2021 1:19:34 PM
Surr: BFB	101	70-130	%Rec	1	3/2/2021 1:19:34 PM

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

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2102B86**

03-Mar-21

Client: Vertex Resource Group Ltd.

Project: Dinero State 005

Sample ID: MB-58416 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 58416 RunNo: 75643

Prep Date: 3/1/2021 Analysis Date: 3/2/2021 SeqNo: 2674814 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-58416 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 58416 RunNo: 75643

Prep Date: 3/1/2021 Analysis Date: 3/2/2021 SeqNo: 2674815 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 15 1.5 15.00 0 96.8 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 Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 5 of 10

Hall Environmental Analysis Laboratory, Inc.

WO#: 2102B86 03-Mar-21

Client: Vertex Resource Group Ltd.

Project: Dinero State 005

Sample ID: MB-58373 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 58373 RunNo: 75595

Prep Date: 2/27/2021 Analysis Date: 3/1/2021 SeqNo: 2672573 Units: %Rec

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result LowLimit HighLimit Qual

Surr: DNOP 12 10.00 117 70 130

Sample ID: MB-58379 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 58379 RunNo: 75595

Prep Date: 2/27/2021 Analysis Date: 3/1/2021 SeqNo: 2672574 Units: %Rec

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result PQL LowLimit HighLimit Qual

Surr: DNOP 13 10.00 133 130 S

Sample ID: LCS-58373 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 58373 RunNo: 75595

Prep Date: 2/27/2021 Analysis Date: 3/1/2021 SeqNo: 2672575 Units: %Rec

Analyte Result POL SPK value SPK Ref Val %REC HighLimit %RPD RPDI imit Qual LowLimit

Surr: DNOP 5.000 105 70

Sample ID: LCS-58379 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 58379 RunNo: 75595

Prep Date: 2/27/2021 Analysis Date: 3/1/2021 SeqNo: 2672576 Units: %Rec

Analyte Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Surr: DNOP 6.4 5.000 128 70 130

Sample ID: MB-58372 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 58372 RunNo: 75595

Prep Date: 2/27/2021 Analysis Date: 3/1/2021 SeqNo: 2673430 Units: mg/Kg

Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Diesel Range Organics (DRO) ND 10 Motor Oil Range Organics (MRO) ND 50

Surr: DNOP 7.5 10.00 75.0 70 130

Sample ID: MB-58377 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Batch ID: 58377 Client ID: PBS RunNo: 75595

Prep Date: 2/27/2021 Analysis Date: 3/1/2021 SeqNo: 2673431 Units: %Rec

PQL SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result LowLimit HighLimit Qual

Surr: DNOP 12 10.00 117 70 130

Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

POL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Limit Page 6 of 10

Hall Environmental Analysis Laboratory, Inc.

WO#: **2102B86**

03-Mar-21

Client: Vertex Resource Group Ltd.

Project: Dinero State 005

Surr: DNOP

Sample ID: LCS-58377 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 58377 RunNo: 75595

Prep Date: 2/27/2021 Analysis Date: 3/1/2021 SeqNo: 2673433 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: DNOP 5.9 5.000 118 70 130

Sample ID: LCS-58372 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 58372 RunNo: 75653

4.8

Prep Date: 2/27/2021 Analysis Date: 3/2/2021 SeqNo: 2675522 Units: mg/Kg

5.000

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO) 49 10 50.00 0 97.7 68.9 141

96.4

70

130

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 7 of 10

Hall Environmental Analysis Laboratory, Inc.

WO#: **2102B86**

03-Mar-21

Client: Vertex Resource Group Ltd.

Project: Dinero State 005

Sample ID: Ics-58368	SampType: LCS4 TestCode: EPA Method 8260B: Volatiles Short List							List			
Client ID: BatchQC	Batc	h ID: 58	368	F	RunNo: 75617						
Prep Date: 2/26/2021	Analysis Date: 3/2/2021		S	SeqNo: 2	673807	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	104	80	120				
Toluene	1.0	0.050	1.000	0	104	80	120				
Ethylbenzene	1.1	0.050	1.000	0	106	80	120				
Xylenes, Total	3.3	0.10	3.000	0	110	80	120				
Surr: 1,2-Dichloroethane-d4	0.45		0.5000		90.5	70	130				
Surr: 4-Bromofluorobenzene	0.47		0.5000		94.8	70	130				
Surr: Dibromofluoromethane	0.52		0.5000		104	70	130				
Surr: Toluene-d8	0.52		0.5000		105	70	130				
Sample ID: mb-58368	SampType: MBLK			TestCode: EPA Method 8260B: Volatiles Short List							
Client ID: PBS	Batch ID: 58368			RunNo: 75617							
Prep Date: 2/26/2021	Analysis [Date: 3/	2/2021	\$	SeqNo: 2	673808	3808 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: 1,2-Dichloroethane-d4	0.46		0.5000		91.9	70	130				
Surr: 4-Bromofluorobenzene	0.50		0.5000		99.2	70	130				
Surr: Dibromofluoromethane	0.50		0.5000		99.6	70	130				
Surr: Toluene-d8	0.52		0.5000		103	70	130				
Sample ID: Ics-58378	Samp	Гуре: LC	:S4	Tes	tCode: E	PA Method	8260B: Volat	tiles Short	List		
Client ID: BatchQC	Batc	h ID: 58	378	F	RunNo: 7	5661					
Pren Date: 2/27/2021	Δnalveie Γ) ata: 3/	2/2021	c	SeaNo: 2	675875	Units: %Re	_			

Sample ID: Ics-58378	SampType: LCS4			SampType: LCS4 TestCode: EPA Method 8260B: Volatiles Sho						TestCode: EPA Method 8260B: Volatiles Short List						
Client ID: BatchQC	Batch	ID: 58	378	R	RunNo: 7	5661										
Prep Date: 2/27/2021	Analysis Date: 3/2/2021			SeqNo: 2675875			Units: %Rec	;								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual						
Surr: 1,2-Dichloroethane-d4	0.48		0.5000	_	96.3	70	130									
Surr: 4-Bromofluorobenzene	0.48		0.5000		95.7	70	130									
Surr: Dibromofluoromethane	0.52		0.5000		103	70	130									
Surr: Toluene-d8	0.52		0.5000		104	70	130									

Sample ID: mb-58378	SampType: MBLK TestCode: EPA Method 8260B: Volatiles Short List										
Client ID: PBS	Batch ID: 58378				RunNo: 75661						
Prep Date: 2/27/2021	Analysis D	nalysis Date: 3/2/2021			SeqNo: 2675876			Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: 1,2-Dichloroethane-d4	0.48		0.5000		96.4	70	130				

Qualifiers:

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

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

Page 8 of 10

Hall Environmental Analysis Laboratory, Inc.

WO#: **2102B86**

03-Mar-21

Client: Vertex Resource Group Ltd.

Project: Dinero State 005

Sample ID: mb-58378 SampType: MBLK TestCode: EPA Method 8260B: Volatiles Short List

Client ID: PBS Batch ID: 58378 RunNo: 75661

Prep Date: 2/27/2021 Analysis Date: 3/2/2021 SeqNo: 2675876 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Surr: Dibromofluoromethane
 0.50
 0.5000
 101
 70
 130

 Surr: Toluene-d8
 0.49
 0.5000
 98.1
 70
 130

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 9 of 10

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

2102B86 03-Mar-21

WO#:

Client: Vertex Resource Group Ltd.

Project: Dinero State 005

Sample ID: Ics-58368 SampType: LCS TestCode: EPA Method 8015D Mod: Gasoline Range Client ID: LCSS Batch ID: 58368 RunNo: 75617 Prep Date: 2/26/2021 Analysis Date: 3/2/2021 SeqNo: 2673831 Units: mq/Kq SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result PQL LowLimit HighLimit Qual 22 5.0 25.00 Λ 87.4 70 130

Gasoline Range Organics (GRO) Surr: BFB 470 500.0 93.7 70 130

Sample ID: mb-58368 TestCode: EPA Method 8015D Mod: Gasoline Range SampType: MBLK

Client ID: PBS Batch ID: 58368 RunNo: 75617

Prep Date: 2/26/2021 Analysis Date: 3/2/2021 SeqNo: 2673833 Units: mg/Kg

500.0

%REC LowLimit Analyte Result PQL SPK value SPK Ref Val HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) ND 5.0

96.0

70

130

Sample ID: Ics-58378 SampType: LCS TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: LCSS Batch ID: 58378 RunNo: 75661

480

Prep Date: 2/27/2021 Analysis Date: 3/2/2021 SeqNo: 2675911 Units: %Rec

HighLimit SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result POI LowLimit Qual 490 500.0 97.3 70 130

Surr: BFB

Sample ID: mb-58378 SampType: MBLK TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: PBS Batch ID: 58378 RunNo: 75661

Analysis Date: 3/2/2021 Prep Date: 2/27/2021 SeqNo: 2675912 Units: %Rec

Analyte Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 500.0 70 Surr: BFB 480 95.3 130

Qualifiers:

Surr: BFB

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded Н

Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Limit Page 10 of 10



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Website: clients.hallenvironmental.com

Sample Log-In Check List

Client Name: Vertex Resource Group Work Order Number: 2102B86 RcptNo: 1 Received By: Juan Rojas 2/26/2021 7:55:00 AM Completed By: **Desiree Dominguez** 2/26/2021 9:10:21 AM Reviewed By: JR 2/26/21 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 🗌 No 🗌 4. Were all samples received at a temperature of >0° C to 6.0°C Yes 🗸 NA 🗌 5. Sample(s) in proper container(s)? Yes 🗸 No 🗌 6. Sufficient sample volume for indicated test(s)? Yes 🗸 No 🗌 No 🗌 7. Are samples (except VOA and ONG) properly preserved? Yes 🗸 8. Was preservative added to bottles? No 🗸 NA 🗌 Yes 9. Received at least 1 vial with headspace <1/4" for AQ VOA? No 🗌 NA 🗸 Yes 10. Were any sample containers received broken? Yes 🗆 No 🗸 2/26/2 # of preserved bottles checked 11. Does paperwork match bottle labels? Yes 🗸 No 🗌 for pH: (Note discrepancies on chain of custody) (<2 or >12 unless noted) Adjusted? 12. Are matrices correctly identified on Chain of Custody? Yes 🗸 No 🗌 13. Is it clear what analyses were requested? Yes 🗸 No \square 14. Were all holding times able to be met? Yes 🗸 No 🗌 Checked by: (If no, notify customer for authorization.) 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 0.3 Good

Received by OCD: 6/24/202	36:09 PM	Page 111 of 271
HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107	### ### ### ### ### ### #### #### ######	745 Time: Relinquished by: Received by Via: Date Time Received by Via: Date Time 1/10 Church Ch
Turn-Around Time: 5 004 D-Standard Rush Project Name: + 605 Project #:	ine ine	Received by Via: 2/25/21 945 Received by Via: Date Time Court & 2/26/21 7/45 Contracted to other accredited laboratories. This serves as notice of this point accredited laboratories.
Client: VerteX Mailing Address:	Date Time Matrix Sample Name Date Time Matrix Sample Name 10:55	PSS/M 945 Date: Time: Relinquished by: 3 90 CMM



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

March 03, 2021

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

FAX

RE: Dinero State 005 OrderNo.: 2102B88

Dear Monica Peppin:

Hall Environmental Analysis Laboratory received 10 sample(s) on 2/26/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 3/3/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd. Client Sample ID: BH21-01 0-0.5

 Project:
 Dinero State 005
 Collection Date: 2/23/2021 11:15:00 AM

 Lab ID:
 2102B88-001
 Matrix: SOIL
 Received Date: 2/26/2021 7:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: mb
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	3/2/2021 12:54:19 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	3/2/2021 12:54:19 AM
Surr: DNOP	82.3	70-130	%Rec	1	3/2/2021 12:54:19 AM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	ND	60	mg/Kg	20	3/2/2021 2:33:34 PM
EPA METHOD 8260B: VOLATILES SHORT LIS	ST.				Analyst: JMR
Benzene	ND	0.024	mg/Kg	1	3/2/2021 3:42:45 PM
Toluene	ND	0.049	mg/Kg	1	3/2/2021 3:42:45 PM
Ethylbenzene	ND	0.049	mg/Kg	1	3/2/2021 3:42:45 PM
Xylenes, Total	ND	0.098	mg/Kg	1	3/2/2021 3:42:45 PM
Surr: 1,2-Dichloroethane-d4	82.8	70-130	%Rec	1	3/2/2021 3:42:45 PM
Surr: 4-Bromofluorobenzene	100	70-130	%Rec	1	3/2/2021 3:42:45 PM
Surr: Dibromofluoromethane	98.8	70-130	%Rec	1	3/2/2021 3:42:45 PM
Surr: Toluene-d8	104	70-130	%Rec	1	3/2/2021 3:42:45 PM
EPA METHOD 8015D MOD: GASOLINE RANG	E				Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/2/2021 3:42:45 PM
Surr: BFB	97.8	70-130	%Rec	1	3/2/2021 3:42:45 PM

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

Qualifiers:

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

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

Page 1 of 17

Date Reported: 3/3/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd. Client Sample ID: BH21-03 0-0.5

 Project:
 Dinero State 005
 Collection Date: 2/23/2021 11:25:00 AM

 Lab ID:
 2102B88-002
 Matrix: SOIL
 Received Date: 2/26/2021 7:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst: mb
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	3/2/2021 1:03:53 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	3/2/2021 1:03:53 AM
Surr: DNOP	97.5	70-130	%Rec	1	3/2/2021 1:03:53 AM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	150	60	mg/Kg	20	3/2/2021 2:45:58 PM
EPA METHOD 8260B: VOLATILES SHORT LIST	Γ				Analyst: JMR
Benzene	ND	0.025	mg/Kg	1	3/2/2021 4:11:21 PM
Toluene	ND	0.049	mg/Kg	1	3/2/2021 4:11:21 PM
Ethylbenzene	ND	0.049	mg/Kg	1	3/2/2021 4:11:21 PM
Xylenes, Total	ND	0.098	mg/Kg	1	3/2/2021 4:11:21 PM
Surr: 1,2-Dichloroethane-d4	86.7	70-130	%Rec	1	3/2/2021 4:11:21 PM
Surr: 4-Bromofluorobenzene	97.5	70-130	%Rec	1	3/2/2021 4:11:21 PM
Surr: Dibromofluoromethane	101	70-130	%Rec	1	3/2/2021 4:11:21 PM
Surr: Toluene-d8	99.9	70-130	%Rec	1	3/2/2021 4:11:21 PM
EPA METHOD 8015D MOD: GASOLINE RANGE	<u> </u>				Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/2/2021 4:11:21 PM
Surr: BFB	95.6	70-130	%Rec	1	3/2/2021 4:11:21 PM

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

Qualifiers:

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

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

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Date Reported: 3/3/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd. Client Sample ID: BH21-05 0-0.5

 Project:
 Dinero State 005
 Collection Date: 2/23/2021 11:35:00 AM

 Lab ID:
 2102B88-003
 Matrix: SOIL
 Received Date: 2/26/2021 7:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst: mb
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	3/2/2021 1:13:28 AM
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	3/2/2021 1:13:28 AM
Surr: DNOP	86.5	70-130	%Rec	1	3/2/2021 1:13:28 AM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	370	59	mg/Kg	20	3/2/2021 2:58:22 PM
EPA METHOD 8260B: VOLATILES SHORT LIST	Г				Analyst: JMR
Benzene	ND	0.025	mg/Kg	1	3/2/2021 4:40:04 PM
Toluene	ND	0.050	mg/Kg	1	3/2/2021 4:40:04 PM
Ethylbenzene	ND	0.050	mg/Kg	1	3/2/2021 4:40:04 PM
Xylenes, Total	ND	0.10	mg/Kg	1	3/2/2021 4:40:04 PM
Surr: 1,2-Dichloroethane-d4	82.1	70-130	%Rec	1	3/2/2021 4:40:04 PM
Surr: 4-Bromofluorobenzene	96.0	70-130	%Rec	1	3/2/2021 4:40:04 PM
Surr: Dibromofluoromethane	100	70-130	%Rec	1	3/2/2021 4:40:04 PM
Surr: Toluene-d8	101	70-130	%Rec	1	3/2/2021 4:40:04 PM
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst: JMR
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	3/2/2021 4:40:04 PM
Surr: BFB	93.0	70-130	%Rec	1	3/2/2021 4:40:04 PM

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

Qualifiers:

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

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

Page 3 of 17

Date Reported: 3/3/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd. Client Sample ID: BH21-07 0-0.5

 Project:
 Dinero State 005
 Collection Date: 2/23/2021 11:45:00 AM

 Lab ID:
 2102B88-004
 Matrix: SOIL
 Received Date: 2/26/2021 7:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst: mb
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	3/2/2021 1:22:58 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	3/2/2021 1:22:58 AM
Surr: DNOP	76.8	70-130	%Rec	1	3/2/2021 1:22:58 AM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	ND	60	mg/Kg	20	3/2/2021 3:10:47 PM
EPA METHOD 8260B: VOLATILES SHORT LIS	Т				Analyst: JMR
Benzene	ND	0.024	mg/Kg	1	3/2/2021 5:08:41 PM
Toluene	ND	0.048	mg/Kg	1	3/2/2021 5:08:41 PM
Ethylbenzene	ND	0.048	mg/Kg	1	3/2/2021 5:08:41 PM
Xylenes, Total	ND	0.096	mg/Kg	1	3/2/2021 5:08:41 PM
Surr: 1,2-Dichloroethane-d4	96.7	70-130	%Rec	1	3/2/2021 5:08:41 PM
Surr: 4-Bromofluorobenzene	100	70-130	%Rec	1	3/2/2021 5:08:41 PM
Surr: Dibromofluoromethane	96.8	70-130	%Rec	1	3/2/2021 5:08:41 PM
Surr: Toluene-d8	95.0	70-130	%Rec	1	3/2/2021 5:08:41 PM
EPA METHOD 8015D MOD: GASOLINE RANGE	≣				Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/2/2021 5:08:41 PM
Surr: BFB	95.0	70-130	%Rec	1	3/2/2021 5:08:41 PM

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

Qualifiers:

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

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

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Date Reported: 3/3/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd. Client Sample ID: BH21-13 0-0.5

 Project:
 Dinero State 005
 Collection Date: 2/23/2021 12:15:00 PM

 Lab ID:
 2102B88-005
 Matrix: SOIL
 Received Date: 2/26/2021 7:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: mb
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	3/2/2021 1:32:29 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	3/2/2021 1:32:29 AM
Surr: DNOP	90.2	70-130	%Rec	1	3/2/2021 1:32:29 AM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	ND	60	mg/Kg	20	3/2/2021 6:04:32 PM
EPA METHOD 8260B: VOLATILES SHORT LIS	т				Analyst: JMR
Benzene	ND	0.025	mg/Kg	1	3/1/2021 7:13:54 PM
Toluene	ND	0.049	mg/Kg	1	3/1/2021 7:13:54 PM
Ethylbenzene	ND	0.049	mg/Kg	1	3/1/2021 7:13:54 PM
Xylenes, Total	ND	0.099	mg/Kg	1	3/1/2021 7:13:54 PM
Surr: 1,2-Dichloroethane-d4	98.5	70-130	%Rec	1	3/1/2021 7:13:54 PM
Surr: 4-Bromofluorobenzene	97.9	70-130	%Rec	1	3/1/2021 7:13:54 PM
Surr: Dibromofluoromethane	112	70-130	%Rec	1	3/1/2021 7:13:54 PM
Surr: Toluene-d8	100	70-130	%Rec	1	3/1/2021 7:13:54 PM
EPA METHOD 8015D MOD: GASOLINE RANG	E				Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/1/2021 7:13:54 PM
Surr: BFB	99.5	70-130	%Rec	1	3/1/2021 7:13:54 PM

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

Qualifiers:

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

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

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Date Reported: 3/3/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd. Client Sample ID: BH21-17 0-0.5

 Project:
 Dinero State 005
 Collection Date: 2/23/2021 12:35:00 PM

 Lab ID:
 2102B88-006
 Matrix: SOIL
 Received Date: 2/26/2021 7:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst: mb
Diesel Range Organics (DRO)	ND	8.7	mg/Kg	1	3/1/2021 2:22:15 PM
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	3/1/2021 2:22:15 PM
Surr: DNOP	93.7	70-130	%Rec	1	3/1/2021 2:22:15 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	ND	59	mg/Kg	20	3/2/2021 6:16:56 PM
EPA METHOD 8260B: VOLATILES SHORT LIS	Т				Analyst: JMR
Benzene	ND	0.025	mg/Kg	1	3/1/2021 8:39:36 PM
Toluene	ND	0.050	mg/Kg	1	3/1/2021 8:39:36 PM
Ethylbenzene	ND	0.050	mg/Kg	1	3/1/2021 8:39:36 PM
Xylenes, Total	ND	0.10	mg/Kg	1	3/1/2021 8:39:36 PM
Surr: 1,2-Dichloroethane-d4	96.6	70-130	%Rec	1	3/1/2021 8:39:36 PM
Surr: 4-Bromofluorobenzene	96.7	70-130	%Rec	1	3/1/2021 8:39:36 PM
Surr: Dibromofluoromethane	110	70-130	%Rec	1	3/1/2021 8:39:36 PM
Surr: Toluene-d8	105	70-130	%Rec	1	3/1/2021 8:39:36 PM
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst: JMR
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	3/1/2021 8:39:36 PM
Surr: BFB	98.7	70-130	%Rec	1	3/1/2021 8:39:36 PM

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

Qualifiers:

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

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

Page 6 of 17

Project:

Lab ID:

CLIENT: Vertex Resource Group Ltd.

Dinero State 005

2102B88-007

Analytical Report Lab Order 2102B88

Date Reported: 3/3/2021

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH21-21 0-0.5

Collection Date: 2/23/2021 12:55:00 PM

Received Date: 2/26/2021 7:55:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst: mb
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	3/1/2021 2:31:56 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	3/1/2021 2:31:56 PM
Surr: DNOP	110	70-130	%Rec	1	3/1/2021 2:31:56 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	330	60	mg/Kg	20	3/2/2021 6:54:11 PM
EPA METHOD 8260B: VOLATILES SHORT LIST	Г				Analyst: JMR
Benzene	ND	0.024	mg/Kg	1	3/1/2021 9:08:11 PM
Toluene	ND	0.049	mg/Kg	1	3/1/2021 9:08:11 PM
Ethylbenzene	ND	0.049	mg/Kg	1	3/1/2021 9:08:11 PM
Xylenes, Total	ND	0.098	mg/Kg	1	3/1/2021 9:08:11 PM
Surr: 1,2-Dichloroethane-d4	93.7	70-130	%Rec	1	3/1/2021 9:08:11 PM
Surr: 4-Bromofluorobenzene	97.6	70-130	%Rec	1	3/1/2021 9:08:11 PM
Surr: Dibromofluoromethane	108	70-130	%Rec	1	3/1/2021 9:08:11 PM
Surr: Toluene-d8	101	70-130	%Rec	1	3/1/2021 9:08:11 PM
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/1/2021 9:08:11 PM
Surr: BFB	96.9	70-130	%Rec	1	3/1/2021 9:08:11 PM

Matrix: SOIL

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

Qualifiers:

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

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

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Date Reported: 3/3/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd. Client Sample ID: BH21-25 0-0.5

 Project:
 Dinero State 005
 Collection Date: 2/23/2021 1:15:00 PM

 Lab ID:
 2102B88-008
 Matrix: SOIL
 Received Date: 2/26/2021 7:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: mb
Diesel Range Organics (DRO)	13	9.7	mg/Kg	1	3/1/2021 2:41:38 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	3/1/2021 2:41:38 PM
Surr: DNOP	101	70-130	%Rec	1	3/1/2021 2:41:38 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	520	60	mg/Kg	20	3/2/2021 7:06:36 PM
EPA METHOD 8260B: VOLATILES SHOR	T LIST				Analyst: JMR
Benzene	ND	0.024	mg/Kg	1	3/1/2021 9:36:40 PM
Toluene	ND	0.048	mg/Kg	1	3/1/2021 9:36:40 PM
Ethylbenzene	ND	0.048	mg/Kg	1	3/1/2021 9:36:40 PM
Xylenes, Total	ND	0.097	mg/Kg	1	3/1/2021 9:36:40 PM
Surr: 1,2-Dichloroethane-d4	93.2	70-130	%Rec	1	3/1/2021 9:36:40 PM
Surr: 4-Bromofluorobenzene	95.6	70-130	%Rec	1	3/1/2021 9:36:40 PM
Surr: Dibromofluoromethane	105	70-130	%Rec	1	3/1/2021 9:36:40 PM
Surr: Toluene-d8	106	70-130	%Rec	1	3/1/2021 9:36:40 PM
EPA METHOD 8015D MOD: GASOLINE R	ANGE				Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/1/2021 9:36:40 PM
Surr: BFB	99.3	70-130	%Rec	1	3/1/2021 9:36:40 PM

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

Qualifiers:

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

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

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Date Reported: 3/3/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd. Client Sample ID: BH21-27 0-0.5

 Project:
 Dinero State 005
 Collection Date: 2/23/2021 1:25:00 PM

 Lab ID:
 2102B88-009
 Matrix: SOIL
 Received Date: 2/26/2021 7:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst: mb
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	3/1/2021 2:51:18 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	3/1/2021 2:51:18 PM
Surr: DNOP	122	70-130	%Rec	1	3/1/2021 2:51:18 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	100	61	mg/Kg	20	3/2/2021 7:19:00 PM
EPA METHOD 8260B: VOLATILES SHORT	LIST				Analyst: JMR
Benzene	ND	0.025	mg/Kg	1	3/1/2021 10:05:09 PM
Toluene	ND	0.049	mg/Kg	1	3/1/2021 10:05:09 PM
Ethylbenzene	ND	0.049	mg/Kg	1	3/1/2021 10:05:09 PM
Xylenes, Total	ND	0.099	mg/Kg	1	3/1/2021 10:05:09 PM
Surr: 1,2-Dichloroethane-d4	90.7	70-130	%Rec	1	3/1/2021 10:05:09 PM
Surr: 4-Bromofluorobenzene	96.5	70-130	%Rec	1	3/1/2021 10:05:09 PM
Surr: Dibromofluoromethane	102	70-130	%Rec	1	3/1/2021 10:05:09 PM
Surr: Toluene-d8	101	70-130	%Rec	1	3/1/2021 10:05:09 PM
EPA METHOD 8015D MOD: GASOLINE RAI	NGE				Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/1/2021 10:05:09 PM
Surr: BFB	97.2	70-130	%Rec	1	3/1/2021 10:05:09 PM

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

Qualifiers:

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

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

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Date Reported: 3/3/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd. Client Sample ID: BH21-30 0-0.5

 Project:
 Dinero State 005
 Collection Date: 2/23/2021 1:40:00 PM

 Lab ID:
 2102B88-010
 Matrix: SOIL
 Received Date: 2/26/2021 7:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: mb
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	3/1/2021 3:01:00 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	3/1/2021 3:01:00 PM
Surr: DNOP	106	70-130	%Rec	1	3/1/2021 3:01:00 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	ND	60	mg/Kg	20	3/2/2021 7:31:25 PM
EPA METHOD 8260B: VOLATILES SHOR	T LIST				Analyst: JMR
Benzene	ND	0.024	mg/Kg	1	3/1/2021 10:33:43 PM
Toluene	ND	0.049	mg/Kg	1	3/1/2021 10:33:43 PM
Ethylbenzene	ND	0.049	mg/Kg	1	3/1/2021 10:33:43 PM
Xylenes, Total	ND	0.097	mg/Kg	1	3/1/2021 10:33:43 PM
Surr: 1,2-Dichloroethane-d4	88.7	70-130	%Rec	1	3/1/2021 10:33:43 PM
Surr: 4-Bromofluorobenzene	94.3	70-130	%Rec	1	3/1/2021 10:33:43 PM
Surr: Dibromofluoromethane	110	70-130	%Rec	1	3/1/2021 10:33:43 PM
Surr: Toluene-d8	102	70-130	%Rec	1	3/1/2021 10:33:43 PM
EPA METHOD 8015D MOD: GASOLINE R	ANGE				Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/1/2021 10:33:43 PM
Surr: BFB	96.1	70-130	%Rec	1	3/1/2021 10:33:43 PM

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

Qualifiers:

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

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

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

03-Mar-21

2102B88

Client: Vertex Resource Group Ltd.

Project: Dinero State 005

Sample ID: MB-58416 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 58416 RunNo: 75643

SeqNo: 2674814 Prep Date: 3/1/2021 Analysis Date: 3/2/2021 Units: mq/Kq

SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Analyte Result PQL HighLimit Qual

Chloride ND 1.5

Sample ID: LCS-58416 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 58416 RunNo: 75643

Prep Date: 3/1/2021 Analysis Date: 3/2/2021 SeqNo: 2674815 Units: mg/Kg

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result PQL LowLimit HighLimit Qual

Chloride 15 1.5 15.00 96.8 110

Sample ID: MB-58425 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 58425 RunNo: 75643

Prep Date: 3/2/2021 Analysis Date: 3/2/2021 SeqNo: 2674855 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Chloride ND 1.5

Sample ID: LCS-58425 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 58425 RunNo: 75643

Prep Date: 3/2/2021 Analysis Date: 3/2/2021 SeqNo: 2674856 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

14 Chloride 1.5 15.00 n 94.9 90 110

Qualifiers:

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

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

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OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2102B88**

03-Mar-21

Client: Vertex Resource Group Ltd.

Project: Dinero State 005

Sample ID: MB-58373 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 58373 RunNo: 75595

Prep Date: 2/27/2021 Analysis Date: 3/1/2021 SeqNo: 2672573 Units: mq/Kq

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO) ND 10

Diesel Range Organics (DRO) ND 10
Motor Oil Range Organics (MRO) ND 50

Surr: DNOP 12 10.00 117 70 130

Sample ID: MB-58379 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 58379 RunNo: 75595

Prep Date: 2/27/2021 Analysis Date: 3/1/2021 SeqNo: 2672574 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Surr: DNOP S 13 10.00 133 70 130

Sample ID: LCS-58373 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 58373 RunNo: 75595 Prep Date: 2/27/2021 Analysis Date: 3/1/2021 SeqNo: 2672575 Units: mg/Kg %REC SPK value SPK Ref Val %RPD **RPDLimit** Analyte Result POI LowLimit HighLimit Qual

 Diesel Range Organics (DRO)
 56
 10
 50.00
 0
 112
 68.9
 141

 Surr: DNOP
 5.3
 5.000
 105
 70
 130

Sample ID: LCS-58379 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS Batch ID: 58379 RunNo: 75595

Prep Date: 2/27/2021 Analysis Date: 3/1/2021 SeqNo: 2672576 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Surr: DNOP 6.4 5.000 128 70 130

Sample ID: 2102B88-006AMS SampType: MS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: **BH21-17 0-0.5** Batch ID: **58373** RunNo: **75595**

Prep Date: 2/27/2021 Analysis Date: 3/1/2021 SeqNo: 2673375 Units: mg/Kg

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result PQL LowLimit HighLimit Qual Diesel Range Organics (DRO) 53 9.0 45.21 6.083 105 15 184 Surr: DNOP 4.8 4.521 106 70 130

Sample ID: 2102B88-006AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: BH21-17 0-0.5 Batch ID: 58373 RunNo: 75595

Prep Date: 2/27/2021 Analysis Date: 3/1/2021 SeqNo: 2673408 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Diesel Range Organics (DRO) 65 9.7 48.59 6.083 120 15 184 18.9 23.9

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 range due to dilution or matrix

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

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OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

03-Mar-21

2102B88

WO#:

Client: Vertex Resource Group Ltd.

Project: Dinero State 005

Sample ID: MB-58377

Sample ID: LCS-58377

Sample ID: 2102B88-006AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: **BH21-17 0-0.5** Batch ID: **58373** RunNo: **75595**

Prep Date: 2/27/2021 Analysis Date: 3/1/2021 SeqNo: 2673408 Units: mg/Kg

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result LowLimit HighLimit Qual S Surr: DNOP 6.6 4.859 136 70 130 Λ

Sample ID: MB-58372 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 58372 RunNo: 75595 Prep Date: 2/27/2021 Analysis Date: 3/1/2021 SeqNo: 2673430 Units: mg/Kg SPK value SPK Ref Val %REC LowLimit Analyte Result PQL HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) ND 10

TestCode: EPA Method 8015M/D: Diesel Range Organics

TestCode: EPA Method 8015M/D: Diesel Range Organics

 Motor Oil Range Organics (MRO)
 ND
 50

 Surr: DNOP
 7.5
 10.00
 75.0
 70
 130

Client ID: **PBS** Batch ID: **58377** RunNo: **75595**

Prep Date: 2/27/2021 Analysis Date: 3/1/2021 SeqNo: 2673431 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Surr: DNOP 12 10.00 117 70 130

Sull. DNOP 12 10.00 117 70 150

Client ID: LCSS Batch ID: 58377 RunNo: 75595

SampType: LCS

SampType: MBLK

Prep Date: 2/27/2021 Analysis Date: 3/1/2021 SeqNo: 2673433 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: DNOP 5.9 5.000 118 70 130

Sample ID: LCS-58372 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 58372 RunNo: 75653

Prep Date: 2/27/2021 Analysis Date: 3/2/2021 SeqNo: 2675522 Units: mg/Kg

SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result PQL LowLimit Qual Diesel Range Organics (DRO) 49 10 97.7 68.9 50.00 0 141 Surr: DNOP 4.8 5.000 96.4 70 130

Qualifiers:

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

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

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2102B88** *03-Mar-21*

Client: Vertex Resource Group Ltd.

Project: Dinero State 005

Sample ID: Ics-58370	Samp ⁻	Гуре: LC	s	TestCode: EPA Method 8260B: Volatiles Short List						
Client ID: LCSS	Batc	h ID: 58 :	370	F	RunNo: 7	5617				
Prep Date: 2/27/2021	Analysis [Date: 3/	1/2021	\$	SeqNo: 2	673805	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	101	70	130			
Toluene	0.99	0.050	1.000	0	98.9	70	130			
Surr: 1,2-Dichloroethane-d4	0.47		0.5000		94.4	70	130			
Surr: 4-Bromofluorobenzene	0.48		0.5000		95.8	70	130			
Surr: Dibromofluoromethane	0.46		0.5000		92.7	70	130			
Surr: Toluene-d8	0.50		0.5000		99.6	70	130			
Sample ID: mb-58370	Samp	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8260B: Volat	tiles Short	t List	
Client ID: PBS	Batc	h ID: 58 :	370	F	RunNo: 7	5617				
Prep Date: 2/27/2021	Analysis [Date: 3/	1/2021	5	SeqNo: 2	673806	Units: mg/k	(g		
Analyte	Result	POI	SPK value	SPK Ref Val	%REC	Lowl imit	Highl imit	%RPD	RPDI imit	Qual

Client ID: PBS	Batch	1D: 58 3	370	R	RunNo: 7	5617				
Prep Date: 2/27/2021	Analysis D	ate: 3/	1/2021	S	SeqNo: 20	673806	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025				•		•		•
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.49		0.5000		97.5	70	130			
Surr: 4-Bromofluorobenzene	0.47		0.5000		94.7	70	130			
Surr: Dibromofluoromethane	0.52		0.5000		103	70	130			
Surr: Toluene-d8	0.50		0.5000		99.5	70	130			

Sample ID: Ics-58368	SampT	ype: LC	S4	Tes	tCode: El	PA Method	8260B: Volat	iles Short	List	
Client ID: BatchQC	Batcl	n ID: 58 :	368	F	RunNo: 7	5617				
Prep Date: 2/26/2021	Analysis D	Date: 3/	2/2021	S	SeqNo: 2	673807	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	104	80	120			
Toluene	1.0	0.050	1.000	0	104	80	120			
Ethylbenzene	1.1	0.050	1.000	0	106	80	120			
Xylenes, Total	3.3	0.10	3.000	0	110	80	120			
Surr: 1,2-Dichloroethane-d4	0.45		0.5000		90.5	70	130			
Surr: 4-Bromofluorobenzene	0.47		0.5000		94.8	70	130			
Surr: Dibromofluoromethane	0.52		0.5000		104	70	130			
Surr: Toluene-d8	0.52		0.5000		105	70	130			

Sample ID: mb-58368 SampType: MBLK TestCode: EPA Method 8260B: Volatiles Short List Client ID: PBS Batch ID: 58368 RunNo: 75617 Prep Date: 2/26/2021 Analysis Date: 3/2/2021 SeqNo: 2673808 Units: mg/Kg SPK value SPK Ref Val %REC LowLimit HighLimit Analyte Result PQL %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 Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2102B88**

03-Mar-21

Client: Vertex Resource Group Ltd.

Project: Dinero State 005

Sample ID: mb-58368	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8260B: Volat	iles Short	List	
Client ID: PBS	Batcl	n ID: 58 3	368	F	RunNo: 7	5617				
Prep Date: 2/26/2021	Analysis D	Date: 3/2	2/2021	8	SeqNo: 20	673808	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.46		0.5000		91.9	70	130			
Surr: 4-Bromofluorobenzene	0.50		0.5000		99.2	70	130			
Surr: Dibromofluoromethane	0.50		0.5000		99.6	70	130			
Surr: Toluene-d8	0.52		0.5000		103	70	130			

Sample ID: Ics-58378	SampT	ype: LC	S4	Tes	tCode: El	PA Method	8260B: Volat	iles Short	List	
Client ID: BatchQC	Batch	n ID: 58	378	F	RunNo: 7	5661				
Prep Date: 2/27/2021	Analysis D	ate: 3/	/2/2021	8	SeqNo: 2	675875	Units: %Red	;		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.48		0.5000		96.3	70	130			
Surr: 4-Bromofluorobenzene	0.48		0.5000		95.7	70	130			
Surr: Dibromofluoromethane	0.52		0.5000		103	70	130			
Surr: Toluene-d8	0.52		0.5000		104	70	130			

Sample ID: mb-58378	SampT	ype: MI	BLK	Tes	tCode: El	EPA Method 8260B: Volatiles Short List									
Client ID: PBS	Batch	n ID: 58	378	F	RunNo: 7	5661									
Prep Date: 2/27/2021	Analysis D	oate: 3/	2/2021	8	SeqNo: 2	675876	Units: %Re	C							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual					
Surr: 1,2-Dichloroethane-d4	0.48		0.5000		96.4	70	130								
Surr: 4-Bromofluorobenzene	0.49		0.5000		98.8	70	130								
Surr: Dibromofluoromethane	0.50		0.5000		101	70	130								
Surr: Toluene-d8	0.49		0.5000		98.1	70	130								

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2102B88** *03-Mar-21*

Client: Vertex Resource Group Ltd.

Project: Dinero State 005

Sample ID: Ics-58368 SampType: LCS TestCode: EPA Method 8015D Mod: Gasoline Range Client ID: LCSS Batch ID: 58368 RunNo: 75617 Prep Date: 2/26/2021 Analysis Date: 3/2/2021 SeqNo: 2673831 Units: mq/Kq SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result PQL LowLimit HighLimit Qual

 Gasoline Range Organics (GRO)
 22
 5.0
 25.00
 0
 87.4
 70
 130

 Surr: BFB
 470
 500.0
 93.7
 70
 130

Sample ID: Ics-58370 SampType: LCS TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: LCSS Batch ID: 58370 RunNo: 75617

SampType: MBLK

Prep Date: 2/27/2021 Analysis Date: 3/1/2021 SeqNo: 2673832 Units: mg/Kg

HighLimit Analyte Result PQL SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 5.0 25.00 O 91.7 70 130 Surr: BFB 490 500.0 98.3 70 130

Sample ID: mb-58368 SampType: MBLK TestCode: EPA Method 8015D Mod: Gasoline Range Client ID: PBS Batch ID: 58368 RunNo: 75617 Prep Date: 2/26/2021 Analysis Date: 3/2/2021 SeqNo: 2673833 Units: mg/Kg SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Analyte Result PQL HighLimit Qual Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 480 500.0 96.0 70 130

Client ID: PBS Batch ID: 58370 RunNo: 75617 Prep Date: 2/27/2021 Analysis Date: 3/1/2021 SeqNo: 2673834 Units: mg/Kg SPK value SPK Ref Val %REC %RPD **RPDLimit** Result PQL LowLimit HighLimit Qual Gasoline Range Organics (GRO) ND 5.0

TestCode: EPA Method 8015D Mod: Gasoline Range

Surr: BFB 470 500.0 94.2 70 130

TestCode: EPA Method 8015D Mod: Gasoline Range Sample ID: 2102b88-005ams SampType: MS Client ID: BH21-13 0-0.5 Batch ID: 58370 RunNo: 75617 Prep Date: 2/27/2021 Analysis Date: 3/1/2021 SeqNo: 2673847 Units: mq/Kq Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 0

 Gasoline Range Organics (GRO)
 23
 5.0
 24.88
 0
 90.9
 49.2
 122

 Surr: BFB
 460
 497.5
 93.0
 70
 130

Sample ID: 2102b88-005amsd SampType: MSD TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: **BH21-13 0-0.5** Batch ID: **58370** RunNo: **75617**

Prep Date: 2/27/2021 Analysis Date: 3/1/2021 SeqNo: 2673848 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 Quanitative Limit

Sample ID: mb-58370

S % Recovery outside of range due to dilution or matrix

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

Page 16 of 17

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2102B88 03-Mar-21

Client: Vertex Resource Group Ltd.

Project: Dinero State 005

Sample ID: 2102b88-005amsd SampType: MSD TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: BH21-13 0-0.5 Batch ID: 58370 RunNo: 75617

Prep Date: 2/27/2021 Analysis Date: 3/1/2021 SeqNo: 2673848 Units: mg/Kg

PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result LowLimit Qual 24.95 Gasoline Range Organics (GRO) 22 5.0 Λ 87.2 49.2 122 3.88 20 Surr: BFB 480 499.0 96.6 130 0

Sample ID: Ics-58378 TestCode: EPA Method 8015D Mod: Gasoline Range SampType: LCS

Client ID: LCSS Batch ID: 58378 RunNo: 75661

Prep Date: 2/27/2021 Analysis Date: 3/2/2021 SeqNo: 2675911 Units: %Rec

RPDLimit Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD Qual Surr: BFB 490 500.0 97.3 130

Sample ID: mb-58378 SampType: MBLK TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: PBS Batch ID: 58378 RunNo: 75661

Analysis Date: 3/2/2021

Prep Date: 2/27/2021 SeqNo: 2675912 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual LowLimit 480 500.0 95.3 70 Surr: BFB 130

Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

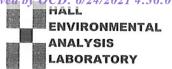
Analyte detected in the associated Method Blank

Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Limit Page 17 of 17



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109

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

Sample Log-In Check List

Client Name:	Vertex Resource Ltd.	e Group	Work	Order Num	ber: 210	2B88			RcptNo	1
Received By:	Juan Rojas		2/26/20	21 7:55:00	AM		Han	Eng)		
Completed By:	Desiree Domir	nguez	2/26/20	21 9:17:18	AM		T			
Reviewed By:	BR 2/2	6/21								
Chain of Cust	tody									
1. Is Chain of Cu	ustody complete?				Yes	V	No		Not Present	
2. How was the s	sample delivered	?			Cou	rier				
Log In										
3. Was an attem	pt made to cool ti	ne samples?			Yes	V	No		NA 🗌	
4. Were all samp	les received at a	temperature o	of >0°Ct	o 6.0°C	Yes	✓	No		NA 🗆	
5. Sample(s) in p	proper container(s	5)?			Yes	V	No			
0.0.55			_				272			
 Sufficient samples Are samples (e) 				40	Yes	V	No			
8. Was preservat			preserve	d?	Yes Yes	V	No No		NA 🗌	
or rise processa.					165		140	٠	NA L	
9. Received at lea	ast 1 vial with hea	dspace <1/4"	for AQ V	OA?	Yes		No		NA 🗸	TO
10. Were any sam	ple containers re	ceived broker	1?		Yes		No	V	# of preserved	7/76/2
11. Does paperwoi	rk match bottle la	hels?			Yes	V	No	П	bottles checked for pH:	((6)2
	ncies on chain of				103		110			>12 unless noted)
12. Are matrices co			Sustody?		Yes	V	No		Adjusted?	
13. Is it clear what	153	8			Yes	V	No		Observation	
 Were all holdin (If no, notify cu) 	ig times able to be stomer for author				Yes	V	No	L	Checked by:	
Special Handli	na (if applica	hle)								
15. Was client not			nis order?		Yes		No		NA 🗹	
Person N	Notified:		ACC HONDON SANAY	Date	Γ			manufacture.		1
By Whor	*		As required to the residence of	Via:	eM	ail [Phone	Fax	☐ In Person	
Regardir	ng:	VALUE OF THE PARTY		MINERAL VARIABLE AND			Charles the same of the same	*HOLESTON AND THE		
Client In	structions:	H HAW IN PROPERTY IN COLUMN TO ANGEL THE						Section St. Co.	TO CORD STREET STREET IN SECURITION OF STREET	
16. Additional ren	narks:									
17. Cooler Inform	1	overa s. w								
Cooler No			al Intact	Seal No	Seal D	ate	Signed	Ву		
1	0.3 Goo	ū					1			

Chain-of-Custody Record	Turn-Around Time:		5 Day		H	_	ALA	0	ENVIRONMEN	I	Received
Client: Uprtex	Standard Standard	□ Rus			A		ISI	ABG	DRAI	OR	-
	Project Name:		¥ > > \		W	www.hallenvironmental.com	ronmen	tal.com			
Mailing Address:	0,000	212TL		4901 F	4901 Hawkins NE		Albuquerque, NM 87109	e, NM 8	37109		6/24
	Project #:	\(\frac{1}{2}\)		Tel. 5(505-345-3975		Fax 505-345-4107	-345-41	07		/202
Phone #:	1	000 K	100			Anal	Analysis Request	nest			1 4:
email or Fax#:	Project Manager	٠,				[⊅] O		(ju			36:0
QA/QC Package:		Poppin	2	N MR	SWIS	S 'ÞOd		ıəsq∀/			09 PM
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Somplor:	ď		ORC		∃ '²C		quəs			
	On Ice.	Yes	No.	1/0			(∀	S-J-C			
ype)_	olers:			AD)				ı) w.	-		
	Cooler Temp(including CF):	ncluding CF): 0 .	1-0.1=0.3 (°C)	12D				olilo			
Date Time Matrix Sample Name	Container Type and #	Preservative Type	HEAL No.	X3T8 08:H9T 9 1808	N) BQE	SCRA :	7) 09Z8 S) 0ZZ8	O lstoT			
11:15 50:11	707	1,5%	100-	. \		4	_				
1 11:25 1 BH21-03 0-0.5	_		-003					-			
11:35 BH21-05 0-0.5	2		-003								
11:45 BH21-07 0-0.5			h00-						- 4		
10:15 BH21-13 0-0.5	,		-005						2		
12:35 BH21-17 0-0.5			-000								
(2):55 BHA1-A1 0-0.5			-00±						2		
11:15 BHAI-25 0-0.5			200-								
1:35 BHAI-27 0-0.5	_		-009					25.4			
V 1:40 V BH21-30 0.0.5	7	\rightarrow	010-	1/		>					
					- 1						
					9 11			2.14			
Date: Relinquished by Q45	Received by:	Via:	Date Time 7/5/7 145	Remarks:	=	, -					Page
Date: Time: Relinquished by: 765/31 1900 6 11000	Received by	Via: S	Date Time	Matador	70						131 of
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	ibcontracted to other acc	redited laboratories	s. This serves as notice of this	possibility. Any su	ub-contracte	data will be	clearly nota	ted on the	analytical re	port.	271



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

March 08, 2021

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

FAX:

RE: Dinero Store 005 OrderNo.: 2102C53

Dear Monica Peppin:

Hall Environmental Analysis Laboratory received 10 sample(s) on 2/27/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order **2102C53**Date Reported: **3/8/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd. Client Sample ID: BH21-32 0'

 Project:
 Dinero Store 005
 Collection Date: 2/25/2021 9:40:00 AM

 Lab ID:
 2102C53-001
 Matrix: SOIL
 Received Date: 2/27/2021 10:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: VP
Chloride	380	60		mg/Kg	20	3/6/2021 1:05:02 AM	58516
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst	mb
Diesel Range Organics (DRO)	17000	980		mg/Kg	100	3/4/2021 4:32:33 PM	58439
Motor Oil Range Organics (MRO)	ND	4900	D	mg/Kg	100	3/4/2021 4:32:33 PM	58439
Surr: DNOP	0	70-130	S	%Rec	100	3/4/2021 4:32:33 PM	58439
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	180	23		mg/Kg	5	3/4/2021 12:26:46 AM	58418
Surr: BFB	273	75.3-105	S	%Rec	5	3/4/2021 12:26:46 AM	58418
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.12		mg/Kg	5	3/4/2021 12:26:46 AM	58418
Toluene	ND	0.23		mg/Kg	5	3/4/2021 12:26:46 AM	58418
Ethylbenzene	ND	0.23		mg/Kg	5	3/4/2021 12:26:46 AM	58418
Xylenes, Total	1.3	0.46		mg/Kg	5	3/4/2021 12:26:46 AM	58418
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	5	3/4/2021 12:26:46 AM	58418

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

Qualifiers:

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

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

Page 1 of 16

Lab Order **2102C53**Date Reported: **3/8/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd. Client Sample ID: BH21-32 3'

 Project:
 Dinero Store 005
 Collection Date: 2/25/2021 9:45:00 AM

 Lab ID:
 2102C53-002
 Matrix: SOIL
 Received Date: 2/27/2021 10:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: VP
Chloride	96	61		mg/Kg	20	3/6/2021 1:17:27 AM	58516
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst	: mb
Diesel Range Organics (DRO)	59	9.6		mg/Kg	1	3/4/2021 8:48:19 PM	58439
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/4/2021 8:48:19 PM	58439
Surr: DNOP	47.2	70-130	S	%Rec	1	3/4/2021 8:48:19 PM	58439
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/4/2021 1:37:18 AM	58418
Surr: BFB	98.3	75.3-105		%Rec	1	3/4/2021 1:37:18 AM	58418
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.025		mg/Kg	1	3/4/2021 1:37:18 AM	58418
Toluene	ND	0.050		mg/Kg	1	3/4/2021 1:37:18 AM	58418
Ethylbenzene	ND	0.050		mg/Kg	1	3/4/2021 1:37:18 AM	58418
Xylenes, Total	ND	0.10		mg/Kg	1	3/4/2021 1:37:18 AM	58418
Surr: 4-Bromofluorobenzene	94.0	80-120		%Rec	1	3/4/2021 1:37:18 AM	58418

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

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

Page 2 of 16

Lab Order **2102C53**Date Reported: **3/8/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd. Client Sample ID: BH21-33 0'

 Project:
 Dinero Store 005
 Collection Date: 2/25/2021 10:40:00 AM

 Lab ID:
 2102C53-003
 Matrix: SOIL
 Received Date: 2/27/2021 10:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	t: VP
Chloride	ND	60		mg/Kg	20	3/5/2021 1:30:08 PM	58535
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	t: mb
Diesel Range Organics (DRO)	20000	1000		mg/Kg	100	3/4/2021 5:09:40 PM	58439
Motor Oil Range Organics (MRO)	ND	5000	D	mg/Kg	100	3/4/2021 5:09:40 PM	58439
Surr: DNOP	0	70-130	S	%Rec	100	3/4/2021 5:09:40 PM	58439
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	490	23		mg/Kg	5	3/4/2021 2:00:58 AM	58418
Surr: BFB	548	75.3-105	S	%Rec	5	3/4/2021 2:00:58 AM	58418
EPA METHOD 8021B: VOLATILES						Analyst	t: NSB
Benzene	ND	0.12		mg/Kg	5	3/4/2021 2:00:58 AM	58418
Toluene	ND	0.23		mg/Kg	5	3/4/2021 2:00:58 AM	58418
Ethylbenzene	0.97	0.23		mg/Kg	5	3/4/2021 2:00:58 AM	58418
Xylenes, Total	13	0.46		mg/Kg	5	3/4/2021 2:00:58 AM	58418
Surr: 4-Bromofluorobenzene	115	80-120		%Rec	5	3/4/2021 2:00:58 AM	58418

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

Qualifiers:

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

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

Page 3 of 16

Lab Order **2102C53**Date Reported: **3/8/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd. Client Sample ID: BH21-33 3'

 Project:
 Dinero Store 005
 Collection Date: 2/25/2021 10:45:00 AM

 Lab ID:
 2102C53-004
 Matrix: SOIL
 Received Date: 2/27/2021 10:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: VP
Chloride	70	60		mg/Kg	20	3/5/2021 2:32:11 PM	58535
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst	: mb
Diesel Range Organics (DRO)	96	9.5		mg/Kg	1	3/4/2021 9:11:50 PM	58439
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/4/2021 9:11:50 PM	58439
Surr: DNOP	52.3	70-130	S	%Rec	1	3/4/2021 9:11:50 PM	58439
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/4/2021 2:24:35 AM	58418
Surr: BFB	94.1	75.3-105		%Rec	1	3/4/2021 2:24:35 AM	58418
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.024		mg/Kg	1	3/4/2021 2:24:35 AM	58418
Toluene	ND	0.048		mg/Kg	1	3/4/2021 2:24:35 AM	58418
Ethylbenzene	ND	0.048		mg/Kg	1	3/4/2021 2:24:35 AM	58418
Xylenes, Total	ND	0.097		mg/Kg	1	3/4/2021 2:24:35 AM	58418
Surr: 4-Bromofluorobenzene	89.5	80-120		%Rec	1	3/4/2021 2:24:35 AM	58418

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

Qualifiers:

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

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

Page 4 of 16

Date Reported: 3/8/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd. Client Sample ID: BH21-34 0'

 Project:
 Dinero Store 005
 Collection Date: 2/25/2021 10:55:00 AM

 Lab ID:
 2102C53-005
 Matrix: SOIL
 Received Date: 2/27/2021 10:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: VP
Chloride	250	60		mg/Kg	20	3/5/2021 3:09:24 PM	58535
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	: mb
Diesel Range Organics (DRO)	12000	1000		mg/Kg	100	3/4/2021 5:46:45 PM	58439
Motor Oil Range Organics (MRO)	ND	5000	D	mg/Kg	100	3/4/2021 5:46:45 PM	58439
Surr: DNOP	0	70-130	S	%Rec	100	3/4/2021 5:46:45 PM	58439
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	400	25		mg/Kg	5	3/4/2021 2:48:12 AM	58418
Surr: BFB	462	75.3-105	S	%Rec	5	3/4/2021 2:48:12 AM	58418
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.12		mg/Kg	5	3/4/2021 2:48:12 AM	58418
Toluene	ND	0.25		mg/Kg	5	3/4/2021 2:48:12 AM	58418
Ethylbenzene	0.69	0.25		mg/Kg	5	3/4/2021 2:48:12 AM	58418
Xylenes, Total	8.6	0.49		mg/Kg	5	3/4/2021 2:48:12 AM	58418
Surr: 4-Bromofluorobenzene	108	80-120		%Rec	5	3/4/2021 2:48:12 AM	58418

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

Qualifiers:

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

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

Page 5 of 16

Date Reported: 3/8/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd. Client Sample ID: BH21-34 3'

 Project:
 Dinero Store 005
 Collection Date: 2/25/2021 11:00:00 AM

 Lab ID:
 2102C53-006
 Matrix: SOIL
 Received Date: 2/27/2021 10:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	t: VP
Chloride	350	60		mg/Kg	20	3/5/2021 3:21:49 PM	58535
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	t: mb
Diesel Range Organics (DRO)	52	9.9		mg/Kg	1	3/4/2021 9:35:20 PM	58439
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/4/2021 9:35:20 PM	58439
Surr: DNOP	62.4	70-130	S	%Rec	1	3/4/2021 9:35:20 PM	58439
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/4/2021 3:58:48 AM	58418
Surr: BFB	98.3	75.3-105		%Rec	1	3/4/2021 3:58:48 AM	58418
EPA METHOD 8021B: VOLATILES						Analyst	t: NSB
Benzene	ND	0.025		mg/Kg	1	3/4/2021 3:58:48 AM	58418
Toluene	ND	0.049		mg/Kg	1	3/4/2021 3:58:48 AM	58418
Ethylbenzene	ND	0.049		mg/Kg	1	3/4/2021 3:58:48 AM	58418
Xylenes, Total	ND	0.098		mg/Kg	1	3/4/2021 3:58:48 AM	58418
Surr: 4-Bromofluorobenzene	93.0	80-120		%Rec	1	3/4/2021 3:58:48 AM	58418

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

Qualifiers:

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

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

Page 6 of 16

Date Reported: 3/8/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd. Client Sample ID: BH21-35 0'

 Project:
 Dinero Store 005
 Collection Date: 2/25/2021 11:10:00 AM

 Lab ID:
 2102C53-007
 Matrix: SOIL
 Received Date: 2/27/2021 10:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	t: VP
Chloride	330	60		mg/Kg	20	3/5/2021 3:34:13 PM	58535
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	t: mb
Diesel Range Organics (DRO)	12000	970		mg/Kg	100	3/4/2021 3:17:54 PM	58439
Motor Oil Range Organics (MRO)	ND	4800	D	mg/Kg	100	3/4/2021 3:17:54 PM	58439
Surr: DNOP	0	70-130	S	%Rec	100	3/4/2021 3:17:54 PM	58439
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	390	24		mg/Kg	5	3/4/2021 4:22:27 AM	58418
Surr: BFB	469	75.3-105	S	%Rec	5	3/4/2021 4:22:27 AM	58418
EPA METHOD 8021B: VOLATILES						Analyst	t: NSB
Benzene	ND	0.12		mg/Kg	5	3/4/2021 4:22:27 AM	58418
Toluene	ND	0.24		mg/Kg	5	3/4/2021 4:22:27 AM	58418
Ethylbenzene	0.65	0.24		mg/Kg	5	3/4/2021 4:22:27 AM	58418
Xylenes, Total	8.2	0.47		mg/Kg	5	3/4/2021 4:22:27 AM	58418
Surr: 4-Bromofluorobenzene	109	80-120		%Rec	5	3/4/2021 4:22:27 AM	58418

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

Qualifiers:

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

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

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Lab Order 2102C53

Date Reported: 3/8/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd. Client Sample ID: BH21-35 3'

 Project:
 Dinero Store 005
 Collection Date: 2/25/2021 11:15:00 AM

 Lab ID:
 2102C53-008
 Matrix: SOIL
 Received Date: 2/27/2021 10:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analys	:: VP
Chloride	570	61		mg/Kg	20	3/5/2021 3:46:38 PM	58535
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analys	:: mb
Diesel Range Organics (DRO)	13	9.6		mg/Kg	1	3/4/2021 9:58:51 PM	58439
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/4/2021 9:58:51 PM	58439
Surr: DNOP	58.0	70-130	S	%Rec	1	3/4/2021 9:58:51 PM	58439
EPA METHOD 8015D: GASOLINE RANGE						Analys	:: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/4/2021 4:46:03 AM	58418
Surr: BFB	96.3	75.3-105		%Rec	1	3/4/2021 4:46:03 AM	58418
EPA METHOD 8021B: VOLATILES						Analys	: NSB
Benzene	ND	0.025		mg/Kg	1	3/4/2021 4:46:03 AM	58418
Toluene	ND	0.049		mg/Kg	1	3/4/2021 4:46:03 AM	58418
Ethylbenzene	ND	0.049		mg/Kg	1	3/4/2021 4:46:03 AM	58418
Xylenes, Total	ND	0.098		mg/Kg	1	3/4/2021 4:46:03 AM	58418
Surr: 4-Bromofluorobenzene	92.3	80-120		%Rec	1	3/4/2021 4:46:03 AM	58418

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

Qualifiers:

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

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

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Lab Order **2102C53**Date Reported: **3/8/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd. Client Sample ID: BH21-36 0'

 Project:
 Dinero Store 005
 Collection Date: 2/25/2021 11:25:00 AM

 Lab ID:
 2102C53-009
 Matrix: SOIL
 Received Date: 2/27/2021 10:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: VP
Chloride	1400	60		mg/Kg	20	3/5/2021 3:59:02 PM	58535
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	: mb
Diesel Range Organics (DRO)	16000	990		mg/Kg	100	3/4/2021 3:55:15 PM	58439
Motor Oil Range Organics (MRO)	ND	5000	D	mg/Kg	100	3/4/2021 3:55:15 PM	58439
Surr: DNOP	0	70-130	S	%Rec	100	3/4/2021 3:55:15 PM	58439
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	470	24		mg/Kg	5	3/4/2021 11:57:33 AM	58418
Surr: BFB	537	75.3-105	S	%Rec	5	3/4/2021 11:57:33 AM	58418
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.12		mg/Kg	5	3/4/2021 11:57:33 AM	58418
Toluene	ND	0.24		mg/Kg	5	3/4/2021 11:57:33 AM	58418
Ethylbenzene	0.83	0.24		mg/Kg	5	3/4/2021 11:57:33 AM	58418
Xylenes, Total	11	0.49		mg/Kg	5	3/4/2021 11:57:33 AM	58418
Surr: 4-Bromofluorobenzene	123	80-120	S	%Rec	5	3/4/2021 11:57:33 AM	58418

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

Qualifiers:

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

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

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Lab Order **2102C53**Date Reported: **3/8/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd. Client Sample ID: BH21-36 3'

 Project:
 Dinero Store 005
 Collection Date: 2/25/2021 11:30:00 AM

 Lab ID:
 2102C53-010
 Matrix: SOIL
 Received Date: 2/27/2021 10:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: VP
Chloride	210	60		mg/Kg	20	3/5/2021 4:36:17 PM	58535
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst	mb
Diesel Range Organics (DRO)	52	9.4		mg/Kg	1	3/4/2021 10:22:19 PM	58439
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/4/2021 10:22:19 PM	58439
Surr: DNOP	89.7	70-130		%Rec	1	3/4/2021 10:22:19 PM	58439
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/4/2021 12:20:56 PM	58418
Surr: BFB	113	75.3-105	S	%Rec	1	3/4/2021 12:20:56 PM	58418
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.024		mg/Kg	1	3/4/2021 12:20:56 PM	58418
Toluene	ND	0.049		mg/Kg	1	3/4/2021 12:20:56 PM	58418
Ethylbenzene	ND	0.049		mg/Kg	1	3/4/2021 12:20:56 PM	58418
Xylenes, Total	ND	0.097		mg/Kg	1	3/4/2021 12:20:56 PM	58418
Surr: 4-Bromofluorobenzene	106	80-120		%Rec	1	3/4/2021 12:20:56 PM	58418

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

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

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2102C53** *08-Mar-21*

Client: Vertex Resource Group Ltd.

Project: Dinero Store 005

Sample ID: MB-58535 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 58535 RunNo: 75731

Prep Date: 3/5/2021 Analysis Date: 3/5/2021 SeqNo: 2679410 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-58535 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 58535 RunNo: 75731

Prep Date: 3/5/2021 Analysis Date: 3/5/2021 SeqNo: 2679411 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 93.2 90 110

Sample ID: MB-58516 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 58516 RunNo: 75731

Prep Date: 3/4/2021 Analysis Date: 3/5/2021 SeqNo: 2679440 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-58516 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 58516 RunNo: 75731

Prep Date: 3/4/2021 Analysis Date: 3/5/2021 SeqNo: 2679441 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 96.6 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 range due to dilution or matrix

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

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OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2102C53**

08-Mar-21

Client: Vertex Resource Group Ltd.

Project: Dinero Store 005

Sample ID: MB-58421 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 58421 RunNo: 75663

Prep Date: 3/2/2021 Analysis Date: 3/3/2021 SegNo: 2675983 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: DNOP 11 10.00 114 70 130

Sample ID: MB-58423 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 58423 RunNo: 75663

Prep Date: 3/2/2021 Analysis Date: 3/3/2021 SeqNo: 2676738 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Surr: DNOP
 8.0
 10.00
 79.9
 70
 130

Sample ID: MB-58439 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 58439 RunNo: 75663 Prep Date: 3/2/2021 Analysis Date: 3/3/2021 SeqNo: 2676739 Units: mg/Kg Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte

Diesel Range Organics (DRO) ND 10
Motor Oil Range Organics (MRO) ND 50

Surr: DNOP 8.1 10.00 81.2 70 130

Sample ID: LCS-58439 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Batch ID: 58439 Client ID: LCSS RunNo: 75663 Analysis Date: 3/3/2021 Prep Date: 3/2/2021 SeqNo: 2676742 Units: mq/Kq Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 66 10 50.00 0 131 68.9 141

 Diesel Range Organics (DRO)
 66
 10
 50.00
 0
 131
 68.9
 141

 Surr: DNOP
 5.4
 5.000
 108
 70
 130

Sample ID: LCS-58421 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 58421 RunNo: 75693

Prep Date: 3/2/2021 Analysis Date: 3/3/2021 SeqNo: 2677144 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: DNOP 5.6 5.000 113 70 130

Sample ID: MB-58488 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 58488 RunNo: 75713

Prep Date: 3/3/2021 Analysis Date: 3/4/2021 SeqNo: 2677803 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: DNOP 9.1 10.00 91.2 70 130

Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2102C53** *08-Mar-21*

Client: Vertex Resource Group Ltd.

Project: Dinero Store 005

Sample ID: LCS-58488 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 58488 RunNo: 75713

Prep Date: 3/3/2021 Analysis Date: 3/4/2021 SeqNo: 2677817 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: DNOP 4.7 5.000 93.6 70 130

Sample ID: LCS-58423 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 58423 RunNo: 75713

Prep Date: 3/2/2021 Analysis Date: 3/4/2021 SeqNo: 2678309 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: DNOP 4.6 5.000 91.0 70 130

Sample ID: MB-58462 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 58462 RunNo: 75711

Prep Date: 3/3/2021 Analysis Date: 3/4/2021 SeqNo: 2678354 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: DNOP 8.8 10.00 88.5 70 130

Sample ID: LCS-58462 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 58462 RunNo: 75711

Prep Date: 3/3/2021 Analysis Date: 3/4/2021 SeqNo: 2678355 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: DNOP 4.3 5.000 85.8 70 130

Sample ID: MB-58505 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 58505 RunNo: 75711

Prep Date: 3/4/2021 Analysis Date: 3/5/2021 SeqNo: 2678581 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: DNOP 9.6 10.00 96.4 70 130

Sample ID: LCS-58505 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 58505 RunNo: 75711

Prep Date: 3/4/2021 Analysis Date: 3/5/2021 SeqNo: 2678582 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: DNOP 4.6 5.000 92.5 70 130

Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

2102C53 08-Mar-21

WO#:

Client: Vertex Resource Group Ltd.

Project: Dinero Store 005

Sample ID: MB-58461 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 58461 RunNo: 75713

Prep Date: 3/3/2021 Analysis Date: 3/5/2021 SeqNo: 2678875 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: DNOP 7.7 10.00 77.2 70 130

Sample ID: LCS-58461 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 58461 RunNo: 75713

Prep Date: 3/3/2021 Analysis Date: 3/5/2021 SeqNo: 2678876 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: DNOP 3.7 5.000 74.0 70 130

Sample ID: MB-58518 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 58518 RunNo: 75711

Prep Date: 3/4/2021 Analysis Date: 3/5/2021 SeqNo: 2679147 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: DNOP 7.5 10.00 75.1 70 130

Sample ID: LCS-58518 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 58518 RunNo: 75711

Prep Date: 3/4/2021 Analysis Date: 3/5/2021 SeqNo: 2679148 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: DNOP 4.2 5.000 83.8 70 130

Sample ID: MB-58506 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 58506 RunNo: 75711

Prep Date: 3/4/2021 Analysis Date: 3/5/2021 SeqNo: 2679885 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: DNOP 12 10.00 121 70 130

Sample ID: LCS-58506 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 58506 RunNo: 75711

Prep Date: 3/4/2021 Analysis Date: 3/5/2021 SeqNo: 2679886 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Surr: DNOP
 5.7
 5.000
 113
 70
 130

Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2102C53** *08-Mar-21*

Client: Vertex Resource Group Ltd.

Project: Dinero Store 005

Sample ID: mb-58418 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: **PBS** Batch ID: **58418** RunNo: **75660**

Prep Date: 3/1/2021 Analysis Date: 3/4/2021 SeqNo: 2676610 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 100 75.3 105

Sample ID: Ics-58418 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 58418 RunNo: 75660

Prep Date: 3/1/2021 Analysis Date: 3/3/2021 SeqNo: 2676611 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 0 101 80 120 1100 Surr: BFB S 1000 109 75.3 105

Sample ID: mb1 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: B75721 RunNo: 75721

Prep Date: Analysis Date: 3/4/2021 SeqNo: 2678105 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr. BFB 1000 1000 100 75.3 105

Sample ID: 2.5ug gro Ics SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: B75721 RunNo: 75721

Prep Date: Analysis Date: 3/4/2021 SegNo: 2678106 Units: %Rec

Analyte Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 1200 1000 75.3 Surr: BFB 116 105 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 Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2102C53**

08-Mar-21

Client: Vertex Resource Group Ltd.

Project: Dinero Store 005

Sample ID: mb-58418 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: 58418 RunNo: 75660

Prep Date: 3/1/2021 Analysis Date: 3/4/2021 SeqNo: 2676656 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 0.94 1.000 94.4 80 120

Sample ID: LCS-58418 SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: **LCSS** Batch ID: **58418** RunNo: **75660**

3.7

4.9

0.49

2.962

4.936

Prep Date: 3/1/2021	Analysis [Date: 3/	3/2021	SeqNo: 2676657			Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.87	0.025	1.000	0	86.8	80	120				
Toluene	0.89	0.050	1.000	0	89.5	80	120				
Ethylbenzene	0.89	0.050	1.000	0	88.8	80	120				
Xylenes, Total	2.6	0.10	3.000	0	87.7	80	120				
Surr: 4-Bromofluorobenzene	0.94		1.000		94.4	80	120				

Sample ID: 2102c53-001ams SampType: MS Te						PA Method	8021B: Volat	iles		
Client ID: BH21-32 0' Batch ID: 58418 RunNo: 75660										
Prep Date: 3/1/2021	Analysis D	ate: 3/	4/2021	S	SeqNo: 20	676660	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.82	0.12	0.9872	0	83.4	76.3	120			
Toluene	0.88	0.25	0.9872	0	89.2	78.5	120			
Ethylbenzene	0.97	0.25	0.9872	0	98.6	78.1	124			

1.258

Sample ID: 2102c53-001ams	sd SampT	SampType: MSD			TestCode: EPA Method 8021B: Volatiles							
Client ID: BH21-32 0'	Batch	Batch ID: 58418			RunNo: 7							
Prep Date: 3/1/2021	Analysis D	Date: 3/	4/2021	\$	SeqNo: 2	676661	Units: mg/k	ίg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	0.88	0.12	0.9862	0	88.9	76.3	120	6.35	20			
Toluene	0.92	0.25	0.9862	0	93.4	78.5	120	4.45	20			
Ethylbenzene	1.0	0.25	0.9862	0	101	78.1	124	2.45	20			
Xylenes, Total	3.9	0.49	2.959	1.258	89.9	79.3	125	4.89	20			
Surr: 4-Bromofluorobenzene	4.8		4.931		97.5	80	120	0	0			

Qualifiers:

Xylenes, Total

Surr: 4-Bromofluorobenzene

* Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

83.5

99.4

79.3

80

125

120

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 16 of 16



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

Sample Log-In Check List

Clie	ent Name:	Vertex Res Ltd.	ource Group	Work (Order Numb	per: 2102C53		RcptNo	: 1
Rece	eived By:	Erin Mele	ndrez	2/27/202	1 10:50:00	AM			
Com	npleted By:	Erin Mele	ndrez	2/27/202	1 1:38:11 F	PM			
Revi	iewed By:	(n) 02/3	17/2021						
<u>Cha</u>	in of Cus	stod <u>y</u>							
1. Is	Chain of C	ustody comp	lete?			Yes 🗸	No 🗌	Not Present	
2. H	low was the	sample deliv	ered?			Courier			
Log								_	
3. · M	las an atten	npt made to o	cool the sampl	es?		Yes 🗸	No 🗌	NA 🗌	
4. W	lere all sam	ples received	at a temperat	ture of >0° C to	6.0°C	Yes 🗹	No 🗆	NA 🗆	
5. s	ample(s) in	proper contai	iner(s)?			Yes 🗸	No 🗌		
6. Sı	ufficient san	nple volume f	or indicated te	st(s)?		Yes 🔽	No 🗆		
7. Ar	e samples ((except VOA	and ONG) pro	perly preserve	d?	Yes 🗸	No 🗆		
8. W	as preserva	ative added to	bottles?			Yes 🗌	No 🗹	NA 🗆	
9. Re	eceived at le	east 1 vial wit	h headspace	<1/4" for AQ V(DA?	Yes	No 🗆	NA 🗹	
10. W	lere any sai	mple containe	ers received b	roken?		Yes	No 🗸	# of preserved	
		ork match bot ancies on cha	ttle labels? ain of custody)			Yes 🗹	No 🗌	bottles checked for pH:	r>12 unless noted)
			tified on Chair			Yes 🗸	No 🗌	Adjusted?	
			ere requested			Yes 🗸	No 🗌	/ .	
		ing times able sustomer for a	e to be met? authorization.)			Yes 🗸	No 🗆	Checked by:	NM 2/27
рес	ial Hand	ling (if app	olicable)						
15. W	Vas client no	otified of all di	iscrepancies v	vith this order?		Yes	No 🗌	NA 🗹	
	Person	Notified:			Date:		The second second second second		
	By Who	om:		ANTE HAVE PROBLEMENT OF THE	Via:	eMail [Phone Fax	☐ In Person	
	Regard	ling:	T					and the series are an expensive to the second memory consistency.	
	Client I	nstructions:		O SELECTION OF THE PARTY OF THE				AT WEST CONTENTS OF AN ARCHITECTURE AND CONTENTS OF A STATE OF THE STATE OF T	
16. <i>A</i>	Additional re	emarks:							
17. <u>c</u>	Cooler Info	rmation							
	Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By		
	1	4.0	Good						
	3	1.5	Good						
	J	4.8	Good					1	



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

April 05, 2021

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

FAX:

RE: Dinero State 005 OrderNo.: 2103B28

Dear Monica Peppin:

Hall Environmental Analysis Laboratory received 17 sample(s) on 3/24/2021 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued April 01, 2021.

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. 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. All samples are reported as received unless otherwise indicated.

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

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 4/5/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd. Client Sample ID: BS21-01 2.5'

 Project:
 Dinero State 005
 Collection Date: 3/22/2021 8:30:00 AM

 Lab ID:
 2103B28-001
 Matrix: SOIL
 Received Date: 3/24/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: VP
Chloride	110	60		mg/Kg	20	3/30/2021 7:23:27 PM	59062
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst	: mb
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	3/26/2021 7:42:20 PM	58960
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/26/2021 7:42:20 PM	58960
Surr: DNOP	41.8	70-130	S	%Rec	1	3/26/2021 7:42:20 PM	58960
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/27/2021 7:35:48 AM	58949
Surr: BFB	81.6	75.3-105		%Rec	1	3/27/2021 7:35:48 AM	58949
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.024		mg/Kg	1	3/27/2021 7:35:48 AM	58949
Toluene	ND	0.048		mg/Kg	1	3/27/2021 7:35:48 AM	58949
Ethylbenzene	ND	0.048		mg/Kg	1	3/27/2021 7:35:48 AM	58949
Xylenes, Total	ND	0.095		mg/Kg	1	3/27/2021 7:35:48 AM	58949
Surr: 4-Bromofluorobenzene	88.8	80-120		%Rec	1	3/27/2021 7:35:48 AM	58949

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

Qualifiers:

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

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

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Date Reported: 4/5/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd. Client Sample ID: BS21-02 2.5'

 Project:
 Dinero State 005
 Collection Date: 3/22/2021 8:35:00 AM

 Lab ID:
 2103B28-002
 Matrix: SOIL
 Received Date: 3/24/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: VP
Chloride	ND	59		mg/Kg	20	3/30/2021 8:00:41 PM	59062
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	: mb
Diesel Range Organics (DRO)	18	9.8		mg/Kg	1	3/26/2021 7:54:20 PM	58960
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/26/2021 7:54:20 PM	58960
Surr: DNOP	43.2	70-130	S	%Rec	1	3/26/2021 7:54:20 PM	58960
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/27/2021 7:59:30 AM	58949
Surr: BFB	83.5	75.3-105		%Rec	1	3/27/2021 7:59:30 AM	58949
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.025		mg/Kg	1	3/27/2021 7:59:30 AM	58949
Toluene	ND	0.049		mg/Kg	1	3/27/2021 7:59:30 AM	58949
Ethylbenzene	ND	0.049		mg/Kg	1	3/27/2021 7:59:30 AM	58949
Xylenes, Total	ND	0.098		mg/Kg	1	3/27/2021 7:59:30 AM	58949
Surr: 4-Bromofluorobenzene	90.2	80-120		%Rec	1	3/27/2021 7:59:30 AM	58949

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

Qualifiers:

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

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

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Date Reported: 4/5/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd. Client Sample ID: BS21-03 2.5'

 Project:
 Dinero State 005
 Collection Date: 3/22/2021 8:40:00 AM

 Lab ID:
 2103B28-003
 Matrix: SOIL
 Received Date: 3/24/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: VP
Chloride	170	60		mg/Kg	20	3/30/2021 8:13:06 PM	59062
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	: mb
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	3/26/2021 8:06:18 PM	58960
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/26/2021 8:06:18 PM	58960
Surr: DNOP	45.2	70-130	S	%Rec	1	3/26/2021 8:06:18 PM	58960
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/27/2021 8:23:11 AM	58949
Surr: BFB	84.7	75.3-105		%Rec	1	3/27/2021 8:23:11 AM	58949
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.024		mg/Kg	1	3/27/2021 8:23:11 AM	58949
Toluene	ND	0.048		mg/Kg	1	3/27/2021 8:23:11 AM	58949
Ethylbenzene	ND	0.048		mg/Kg	1	3/27/2021 8:23:11 AM	58949
Xylenes, Total	ND	0.096		mg/Kg	1	3/27/2021 8:23:11 AM	58949
Surr: 4-Bromofluorobenzene	92.0	80-120		%Rec	1	3/27/2021 8:23:11 AM	58949

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

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

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Date Reported: 4/5/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd. Client Sample ID: BS21-06 2.5'

 Project:
 Dinero State 005
 Collection Date: 3/22/2021 9:15:00 AM

 Lab ID:
 2103B28-004
 Matrix: SOIL
 Received Date: 3/24/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: VP
Chloride	160	59		mg/Kg	20	3/30/2021 8:25:31 PM	59062
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	:: mb
Diesel Range Organics (DRO)	14	9.4		mg/Kg	1	3/26/2021 8:18:16 PM	58960
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/26/2021 8:18:16 PM	58960
Surr: DNOP	42.6	70-130	S	%Rec	1	3/26/2021 8:18:16 PM	58960
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/27/2021 8:46:51 AM	58949
Surr: BFB	84.1	75.3-105		%Rec	1	3/27/2021 8:46:51 AM	58949
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.024		mg/Kg	1	3/27/2021 8:46:51 AM	58949
Toluene	ND	0.048		mg/Kg	1	3/27/2021 8:46:51 AM	58949
Ethylbenzene	ND	0.048		mg/Kg	1	3/27/2021 8:46:51 AM	58949
Xylenes, Total	ND	0.095		mg/Kg	1	3/27/2021 8:46:51 AM	58949
Surr: 4-Bromofluorobenzene	90.1	80-120		%Rec	1	3/27/2021 8:46:51 AM	58949

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

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

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Date Reported: 4/5/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd. Client Sample ID: BS21-09 2.5'

 Project:
 Dinero State 005
 Collection Date: 3/22/2021 10:15:00 AM

 Lab ID:
 2103B28-005
 Matrix: SOIL
 Received Date: 3/24/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: VP
Chloride	350	60		mg/Kg	20	3/30/2021 8:37:55 PM	59062
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	: mb
Diesel Range Organics (DRO)	11	9.8		mg/Kg	1	3/26/2021 8:30:09 PM	58960
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/26/2021 8:30:09 PM	58960
Surr: DNOP	39.9	70-130	S	%Rec	1	3/26/2021 8:30:09 PM	58960
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/27/2021 9:10:35 AM	58949
Surr: BFB	83.4	75.3-105		%Rec	1	3/27/2021 9:10:35 AM	58949
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.024		mg/Kg	1	3/27/2021 9:10:35 AM	58949
Toluene	ND	0.047		mg/Kg	1	3/27/2021 9:10:35 AM	58949
Ethylbenzene	ND	0.047		mg/Kg	1	3/27/2021 9:10:35 AM	58949
Xylenes, Total	ND	0.095		mg/Kg	1	3/27/2021 9:10:35 AM	58949
Surr: 4-Bromofluorobenzene	90.4	80-120		%Rec	1	3/27/2021 9:10:35 AM	58949

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

Qualifiers:

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

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

Page 5 of 24

Date Reported: 4/5/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd. Client Sample ID: BS21-10 2.5'

 Project:
 Dinero State 005
 Collection Date: 3/22/2021 10:20:00 AM

 Lab ID:
 2103B28-006
 Matrix: SOIL
 Received Date: 3/24/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: VP
Chloride	91	60		mg/Kg	20	3/30/2021 8:50:20 PM	59062
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst	: mb
Diesel Range Organics (DRO)	27	9.5		mg/Kg	1	3/26/2021 8:42:06 PM	58960
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/26/2021 8:42:06 PM	58960
Surr: DNOP	35.6	70-130	S	%Rec	1	3/26/2021 8:42:06 PM	58960
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/27/2021 9:34:22 AM	58949
Surr: BFB	83.0	75.3-105		%Rec	1	3/27/2021 9:34:22 AM	58949
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.025		mg/Kg	1	3/27/2021 9:34:22 AM	58949
Toluene	ND	0.050		mg/Kg	1	3/27/2021 9:34:22 AM	58949
Ethylbenzene	ND	0.050		mg/Kg	1	3/27/2021 9:34:22 AM	58949
Xylenes, Total	ND	0.099		mg/Kg	1	3/27/2021 9:34:22 AM	58949
Surr: 4-Bromofluorobenzene	89.8	80-120		%Rec	1	3/27/2021 9:34:22 AM	58949

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

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

Page 6 of 24

Date Reported: 4/5/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd. Client Sample ID: BS21-11 2.5'

 Project:
 Dinero State 005
 Collection Date: 3/22/2021 10:25:00 AM

 Lab ID:
 2103B28-007
 Matrix: SOIL
 Received Date: 3/24/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: VP
Chloride	99	59		mg/Kg	20	3/30/2021 9:02:45 PM	59062
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst	: mb
Diesel Range Organics (DRO)	360	9.8		mg/Kg	1	3/26/2021 8:53:54 PM	58960
Motor Oil Range Organics (MRO)	83	49		mg/Kg	1	3/26/2021 8:53:54 PM	58960
Surr: DNOP	28.7	70-130	S	%Rec	1	3/26/2021 8:53:54 PM	58960
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/27/2021 9:58:13 AM	58949
Surr: BFB	83.6	75.3-105		%Rec	1	3/27/2021 9:58:13 AM	58949
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.024		mg/Kg	1	3/27/2021 9:58:13 AM	58949
Toluene	ND	0.048		mg/Kg	1	3/27/2021 9:58:13 AM	58949
Ethylbenzene	ND	0.048		mg/Kg	1	3/27/2021 9:58:13 AM	58949
Xylenes, Total	ND	0.097		mg/Kg	1	3/27/2021 9:58:13 AM	58949
Surr: 4-Bromofluorobenzene	90.4	80-120		%Rec	1	3/27/2021 9:58:13 AM	58949

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

Qualifiers:

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

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

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Date Reported: 4/5/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd. Client Sample ID: BS21-13 2.5'

 Project:
 Dinero State 005
 Collection Date: 3/22/2021 10:30:00 AM

 Lab ID:
 2103B28-008
 Matrix: SOIL
 Received Date: 3/24/2021 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	ND	60	mg/Kg	20	3/30/2021 9:40:00 PM	59062
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: mb
Diesel Range Organics (DRO)	13	9.7	mg/Kg	1	3/26/2021 11:49:53 AM	58961
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	3/26/2021 11:49:53 AM	58961
Surr: DNOP	91.3	70-130	%Rec	1	3/26/2021 11:49:53 AM	58961
EPA METHOD 8015D: GASOLINE RANGE					Analyst	CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/26/2021 3:59:00 PM	58952
Surr: BFB	97.0	75.3-105	%Rec	1	3/26/2021 3:59:00 PM	58952
EPA METHOD 8021B: VOLATILES					Analyst	: CCM
Benzene	ND	0.025	mg/Kg	1	3/26/2021 3:59:00 PM	58952
Toluene	ND	0.049	mg/Kg	1	3/26/2021 3:59:00 PM	58952
Ethylbenzene	ND	0.049	mg/Kg	1	3/26/2021 3:59:00 PM	58952
Xylenes, Total	ND	0.098	mg/Kg	1	3/26/2021 3:59:00 PM	58952
Surr: 4-Bromofluorobenzene	84.7	80-120	%Rec	1	3/26/2021 3:59:00 PM	58952

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

Qualifiers:

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

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

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Date Reported: 4/5/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd. Client Sample ID: BS21-14 2.5'

 Project:
 Dinero State 005
 Collection Date: 3/22/2021 10:35:00 AM

 Lab ID:
 2103B28-009
 Matrix: SOIL
 Received Date: 3/24/2021 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	ND	59	mg/Kg	20	3/30/2021 9:52:24 PM	59062
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: mb
Diesel Range Organics (DRO)	190	9.9	mg/Kg	1	3/26/2021 1:00:56 PM	58961
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	3/26/2021 1:00:56 PM	58961
Surr: DNOP	76.4	70-130	%Rec	1	3/26/2021 1:00:56 PM	58961
EPA METHOD 8015D: GASOLINE RANGE					Analyst	CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/26/2021 4:58:00 PM	58952
Surr: BFB	94.8	75.3-105	%Rec	1	3/26/2021 4:58:00 PM	58952
EPA METHOD 8021B: VOLATILES					Analyst	: CCM
Benzene	ND	0.025	mg/Kg	1	3/26/2021 4:58:00 PM	58952
Toluene	ND	0.049	mg/Kg	1	3/26/2021 4:58:00 PM	58952
Ethylbenzene	ND	0.049	mg/Kg	1	3/26/2021 4:58:00 PM	58952
Xylenes, Total	ND	0.099	mg/Kg	1	3/26/2021 4:58:00 PM	58952
Surr: 4-Bromofluorobenzene	82.4	80-120	%Rec	1	3/26/2021 4:58:00 PM	58952

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

Qualifiers:

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

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

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Date Reported: 4/5/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd. Client Sample ID: BS21-18 2.5'

 Project:
 Dinero State 005
 Collection Date: 3/22/2021 9:30:00 AM

 Lab ID:
 2103B28-010
 Matrix: SOIL
 Received Date: 3/24/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: VP
Chloride	340	60		mg/Kg	20	3/30/2021 10:04:48 PM	59062
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	: mb
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	3/26/2021 1:24:37 PM	58961
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/26/2021 1:24:37 PM	58961
Surr: DNOP	51.6	70-130	S	%Rec	1	3/26/2021 1:24:37 PM	58961
EPA METHOD 8015D: GASOLINE RANGE						Analyst	CCM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/26/2021 6:57:00 PM	58952
Surr: BFB	98.4	75.3-105		%Rec	1	3/26/2021 6:57:00 PM	58952
EPA METHOD 8021B: VOLATILES						Analyst	: CCM
Benzene	ND	0.025		mg/Kg	1	3/26/2021 6:57:00 PM	58952
Toluene	ND	0.050		mg/Kg	1	3/26/2021 6:57:00 PM	58952
Ethylbenzene	ND	0.050		mg/Kg	1	3/26/2021 6:57:00 PM	58952
Xylenes, Total	ND	0.099		mg/Kg	1	3/26/2021 6:57:00 PM	58952
Surr: 4-Bromofluorobenzene	85.8	80-120		%Rec	1	3/26/2021 6:57:00 PM	58952

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

Qualifiers:

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

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

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Date Reported: 4/5/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd. Client Sample ID: BS21-19 2.5'

 Project:
 Dinero State 005
 Collection Date: 3/22/2021 9:35:00 AM

 Lab ID:
 2103B28-011
 Matrix: SOIL
 Received Date: 3/24/2021 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	110	60	mg/Kg	20	3/30/2021 10:42:02 PM	59064
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	mb
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	3/26/2021 1:48:19 PM	58961
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	3/26/2021 1:48:19 PM	58961
Surr: DNOP	76.6	70-130	%Rec	1	3/26/2021 1:48:19 PM	58961
EPA METHOD 8015D: GASOLINE RANGE					Analyst	ССМ
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	3/26/2021 7:18:00 PM	58952
Surr: BFB	96.9	75.3-105	%Rec	1	3/26/2021 7:18:00 PM	58952
EPA METHOD 8021B: VOLATILES					Analyst	CCM
Benzene	ND	0.025	mg/Kg	1	3/26/2021 7:18:00 PM	58952
Toluene	ND	0.050	mg/Kg	1	3/26/2021 7:18:00 PM	58952
Ethylbenzene	ND	0.050	mg/Kg	1	3/26/2021 7:18:00 PM	58952
Xylenes, Total	ND	0.10	mg/Kg	1	3/26/2021 7:18:00 PM	58952
Surr: 4-Bromofluorobenzene	85.1	80-120	%Rec	1	3/26/2021 7:18:00 PM	58952

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

Qualifiers:

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

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

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Date Reported: 4/5/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd. Client Sample ID: BS21-20 2.5'

 Project:
 Dinero State 005
 Collection Date: 3/22/2021 9:40:00 AM

 Lab ID:
 2103B28-012
 Matrix: SOIL
 Received Date: 3/24/2021 8:00:00 AM

Analyses	Result	RL Q	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	ND	60	mg/Kg	20	3/30/2021 11:19:16 PM	59064
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: mb
Diesel Range Organics (DRO)	160	9.4	mg/Kg	1	3/26/2021 2:12:05 PM	58961
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	3/26/2021 2:12:05 PM	58961
Surr: DNOP	81.2	70-130	%Rec	1	3/26/2021 2:12:05 PM	58961
EPA METHOD 8015D: GASOLINE RANGE					Analyst	CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/26/2021 7:38:00 PM	58952
Surr: BFB	97.4	75.3-105	%Rec	1	3/26/2021 7:38:00 PM	58952
EPA METHOD 8021B: VOLATILES					Analyst	: CCM
Benzene	ND	0.024	mg/Kg	1	3/26/2021 7:38:00 PM	58952
Toluene	ND	0.049	mg/Kg	1	3/26/2021 7:38:00 PM	58952
Ethylbenzene	ND	0.049	mg/Kg	1	3/26/2021 7:38:00 PM	58952
Xylenes, Total	ND	0.098	mg/Kg	1	3/26/2021 7:38:00 PM	58952
Surr: 4-Bromofluorobenzene	84.3	80-120	%Rec	1	3/26/2021 7:38:00 PM	58952

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

Qualifiers:

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

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

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Date Reported: 4/5/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd. Client Sample ID: BS21-32 0.5'

 Project:
 Dinero State 005
 Collection Date: 3/22/2021 10:15:00 AM

 Lab ID:
 2103B28-013
 Matrix: SOIL
 Received Date: 3/24/2021 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	64	61	mg/Kg	20	3/30/2021 11:31:42 PM	59064
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: mb
Diesel Range Organics (DRO)	9.8	9.6	mg/Kg	1	3/26/2021 2:35:48 PM	58961
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	3/26/2021 2:35:48 PM	58961
Surr: DNOP	77.6	70-130	%Rec	1	3/26/2021 2:35:48 PM	58961
EPA METHOD 8015D: GASOLINE RANGE					Analyst	CCM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	3/26/2021 7:58:00 PM	58952
Surr: BFB	98.6	75.3-105	%Rec	1	3/26/2021 7:58:00 PM	58952
EPA METHOD 8021B: VOLATILES					Analyst	CCM
Benzene	ND	0.025	mg/Kg	1	3/26/2021 7:58:00 PM	58952
Toluene	ND	0.050	mg/Kg	1	3/26/2021 7:58:00 PM	58952
Ethylbenzene	ND	0.050	mg/Kg	1	3/26/2021 7:58:00 PM	58952
Xylenes, Total	ND	0.10	mg/Kg	1	3/26/2021 7:58:00 PM	58952
Surr: 4-Bromofluorobenzene	86.7	80-120	%Rec	1	3/26/2021 7:58:00 PM	58952

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

Qualifiers:

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

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

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Date Reported: 4/5/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd. Client Sample ID: WS21-20 0-2.5'

 Project:
 Dinero State 005
 Collection Date: 3/22/2021 10:00:00 AM

 Lab ID:
 2103B28-014
 Matrix: SOIL
 Received Date: 3/24/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: VP
Chloride	ND	60		mg/Kg	20	3/31/2021 12:08:56 AM	59064
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst	: mb
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	3/26/2021 2:59:32 PM	58961
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/26/2021 2:59:32 PM	58961
Surr: DNOP	68.9	70-130	S	%Rec	1	3/26/2021 2:59:32 PM	58961
EPA METHOD 8015D: GASOLINE RANGE						Analyst	CCM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/26/2021 8:18:00 PM	58952
Surr: BFB	94.0	75.3-105		%Rec	1	3/26/2021 8:18:00 PM	58952
EPA METHOD 8021B: VOLATILES						Analyst	: CCM
Benzene	ND	0.025		mg/Kg	1	3/26/2021 8:18:00 PM	58952
Toluene	ND	0.050		mg/Kg	1	3/26/2021 8:18:00 PM	58952
Ethylbenzene	ND	0.050		mg/Kg	1	3/26/2021 8:18:00 PM	58952
Xylenes, Total	ND	0.10		mg/Kg	1	3/26/2021 8:18:00 PM	58952
Surr: 4-Bromofluorobenzene	82.4	80-120		%Rec	1	3/26/2021 8:18:00 PM	58952

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

Qualifiers:

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

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

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Date Reported: 4/5/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd. Client Sample ID: WS21-21 0-2.5'

 Project:
 Dinero State 005
 Collection Date: 3/22/2021 10:05:00 AM

 Lab ID:
 2103B28-015
 Matrix: SOIL
 Received Date: 3/24/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	VP
Chloride	100	60		mg/Kg	20	3/31/2021 12:21:21 AM	59064
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst:	mb
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	3/26/2021 3:23:19 PM	58961
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	3/26/2021 3:23:19 PM	58961
Surr: DNOP	62.4	70-130	S	%Rec	1	3/26/2021 3:23:19 PM	58961
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/26/2021 8:38:00 PM	58952
Surr: BFB	94.8	75.3-105		%Rec	1	3/26/2021 8:38:00 PM	58952
EPA METHOD 8021B: VOLATILES						Analyst:	ССМ
Benzene	ND	0.025		mg/Kg	1	3/26/2021 8:38:00 PM	58952
Toluene	ND	0.049		mg/Kg	1	3/26/2021 8:38:00 PM	58952
Ethylbenzene	ND	0.049		mg/Kg	1	3/26/2021 8:38:00 PM	58952
Xylenes, Total	ND	0.099		mg/Kg	1	3/26/2021 8:38:00 PM	58952
Surr: 4-Bromofluorobenzene	82.4	80-120		%Rec	1	3/26/2021 8:38:00 PM	58952

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

Qualifiers:

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

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

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Date Reported: 4/5/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd. Client Sample ID: WS21-23 0-2.5'

 Project:
 Dinero State 005
 Collection Date: 3/22/2021 9:50:00 AM

 Lab ID:
 2103B28-016
 Matrix: SOIL
 Received Date: 3/24/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	: VP
Chloride	ND	60		mg/Kg	20	3/31/2021 12:33:46 AM	59064
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst:	mb
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	3/26/2021 3:47:06 PM	58961
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/26/2021 3:47:06 PM	58961
Surr: DNOP	49.9	70-130	S	%Rec	1	3/26/2021 3:47:06 PM	58961
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	ССМ
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/26/2021 8:58:00 PM	58952
Surr: BFB	92.8	75.3-105		%Rec	1	3/26/2021 8:58:00 PM	58952
EPA METHOD 8021B: VOLATILES						Analyst:	CCM
Benzene	ND	0.025		mg/Kg	1	3/26/2021 8:58:00 PM	58952
Toluene	ND	0.050		mg/Kg	1	3/26/2021 8:58:00 PM	58952
Ethylbenzene	ND	0.050		mg/Kg	1	3/26/2021 8:58:00 PM	58952
Xylenes, Total	ND	0.10		mg/Kg	1	3/26/2021 8:58:00 PM	58952
Surr: 4-Bromofluorobenzene	80.4	80-120		%Rec	1	3/26/2021 8:58:00 PM	58952

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

Qualifiers:

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

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

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Date Reported: 4/5/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd. Client Sample ID: WS21-24 0-2.5'

 Project:
 Dinero State 005
 Collection Date: 3/22/2021 9:55:00 AM

 Lab ID:
 2103B28-017
 Matrix: SOIL
 Received Date: 3/24/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	VP
Chloride	ND	60		mg/Kg	20	3/31/2021 12:46:11 AM	59064
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst:	mb
Diesel Range Organics (DRO)	24	9.9		mg/Kg	1	3/26/2021 4:10:50 PM	58961
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/26/2021 4:10:50 PM	58961
Surr: DNOP	17.0	70-130	S	%Rec	1	3/26/2021 4:10:50 PM	58961
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/26/2021 9:18:00 PM	58952
Surr: BFB	92.4	75.3-105		%Rec	1	3/26/2021 9:18:00 PM	58952
EPA METHOD 8021B: VOLATILES						Analyst:	CCM
Benzene	ND	0.024		mg/Kg	1	3/26/2021 9:18:00 PM	58952
Toluene	ND	0.049		mg/Kg	1	3/26/2021 9:18:00 PM	58952
Ethylbenzene	ND	0.049		mg/Kg	1	3/26/2021 9:18:00 PM	58952
Xylenes, Total	ND	0.098		mg/Kg	1	3/26/2021 9:18:00 PM	58952
Surr: 4-Bromofluorobenzene	80.2	80-120		%Rec	1	3/26/2021 9:18:00 PM	58952

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

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory, Inc.

2103B28 05-Apr-21

WO#:

Client: Vertex Resource Group Ltd.

Project: Dinero State 005

Sample ID: MB-59062 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: **59062** RunNo: **76305**

Prep Date: 3/30/2021 Analysis Date: 3/30/2021 SeqNo: 2703382 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-59062 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 59062 RunNo: 76305

Prep Date: 3/30/2021 Analysis Date: 3/30/2021 SeqNo: 2703383 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 95.3 90 110

Sample ID: MB-59064 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: **59064** RunNo: **76305**

Prep Date: 3/30/2021 Analysis Date: 3/30/2021 SeqNo: 2703414 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-59064 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 59064 RunNo: 76305

Prep Date: 3/30/2021 Analysis Date: 3/30/2021 SeqNo: 2703415 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 16 1.5 15.00 0 110 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 range due to dilution or matrix

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

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Hall Environmental Analysis Laboratory, Inc.

3.2

WO#: **2103B28**

S

05-Apr-21

Client: Vertex Resource Group Ltd.

Project: Dinero State 005

Sample ID: MB-58961	SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics									
Client ID: PBS	Batch	1D: 58	961	F	RunNo: 7	6238				
Prep Date: 3/25/2021	Analysis D	ate: 3/	26/2021	5	SeqNo: 2	699256	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.6		10.00		96.5	70	130			
Sample ID: LCS-58961	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: LCSS	Batch	1D: 58 9	961	F	RunNo: 7	6238				
				_						
Prep Date: 3/25/2021	Analysis D	ate: 3/	26/2021	\$	SeqNo: 2	699257	Units: mg/K	(g		
Prep Date: 3/25/2021 Analyte	Analysis D Result	eate: 3/ PQL		SPK Ref Val	SeqNo: 2 %REC	699257 LowLimit	Units: mg/K HighLimit	(g %RPD	RPDLimit	Qual
·	•				·		•	•	RPDLimit	Qual
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	•	RPDLimit	Qual
Analyte Diesel Range Organics (DRO)	Result 45 4.5	PQL	SPK value 50.00 5.000	SPK Ref Val	%REC 89.4 90.1	LowLimit 68.9 70	HighLimit 141	%RPD		Qual
Analyte Diesel Range Organics (DRO) Surr: DNOP	Result 45 4.5 SampT	PQL 10	SPK value 50.00 5.000	SPK Ref Val 0	%REC 89.4 90.1	LowLimit 68.9 70 PA Method	HighLimit 141 130	%RPD		Qual
Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID: 2103B28-008AMS	Result 45 4.5 SampT	PQL 10 Type: MS n ID: 58 9	50.00 5.000 5.000	SPK Ref Val 0	%REC 89.4 90.1 tCode: E l	68.9 70 PA Method	HighLimit 141 130	%RPD		Qual
Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID: 2103B28-008AMS Client ID: BS21-13 2.5'	Result 45 4.5 SampT Batch	PQL 10 Type: MS n ID: 58 9	SPK value 50.00 5.000 5.000	SPK Ref Val 0	%REC 89.4 90.1 tCode: E l	LowLimit 68.9 70 PA Method 6238 699902	HighLimit 141 130 8015M/D: Die	%RPD		Qual

Sample ID: 2103B28-008AMSI	SampT	ype: MS	SD	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: BS21-13 2.5'	Batch	ID: 58	961	F	RunNo: 70	6238				
Prep Date: 3/25/2021	Analysis D	ate: 3/	26/2021	S	SeqNo: 20	699903	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	9.4	46.99	13.40	84.2	15	184	22.8	23.9	
Surr: DNOP	2.5		4.699		53.1	70	130	0	0	S

65.7

70

130

4.897

Sample ID: MB-58960	SampT	mpType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch	n ID: 58 9	960	F	RunNo: 7 0	6239				
Prep Date: 3/25/2021	Analysis D	ate: 3/ 2	26/2021	8	SeqNo: 27	700765	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	4.6		10.00		46.2	70	130			S

Qualifiers:

Surr: DNOP

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

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2103B28**

05-Apr-21

Client: Vertex Resource Group Ltd.

Project: Dinero State 005

Sample ID: LCS-58960 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 58960 RunNo: 76239

Prep Date: 3/25/2021 Analysis Date: 3/26/2021 SeqNo: 2700766 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 10 0 68.9 45 50.00 90.5 141

Surr: DNOP 2.3 5.000 47.0 70 130 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 Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

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Hall Environmental Analysis Laboratory, Inc.

1100

WO#: **2103B28**

S

05-Apr-21

Client: Vertex Resource Group Ltd.

Project: Dinero State 005

Sample ID: LCS-58952	SampType: LCS TestCode: EPA Method 8015D: Gasoline Range									
Client ID: LCSS	Batch	n ID: 58	952	F	RunNo: 7 0	6246				
Prep Date: 3/24/2021	Analysis D	ate: 3/	26/2021	\$	SeqNo: 20	699762	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	5.0	25.00	0	117	80	120			
Surr: BFB	1100		1000		112	75.3	105			S
Sample ID: MB-58952	SampT	ampType: MBLK TestCode: EPA Method 8015D: Gasoline						line Rang	e	
Client ID: PBS	Batch	n ID: 58	952	F	RunNo: 70	6246				
Prep Date: 3/24/2021	Analysis D	ate: 3/	26/2021	8	SeqNo: 20	699763	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	970		1000		97.0	75.3	105			
Sample ID: 2103B28-008ams	SampT	ype: M \$	 S	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: BS21-13 2.5'	Batch	n ID: 58	952	F	RunNo: 70	6246				
Prep Date: 3/24/2021	Analysis D	ate: 3/	26/2021	\$	SeqNo: 20	699765	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	32	5.0	24.93	0	127	61.3	114			S

Sample ID: 2103B28-008ams	d Sampi	уре: м .	SD	I es	tCode: El	A Method	8015D: Gaso	line Range	е		
Client ID: BS21-13 2.5'	Batch	ID: 58	952	F	RunNo: 70	6246					
Prep Date: 3/24/2021	Analysis D	ate: 3/	26/2021	S	SeqNo: 20	699766	Units: mg/K	g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	32	4.9	24.53	0	129	61.3	114	0.479	20	S	
Surr: BFB	1100		981.4		114	75.3	105	0	0	S	

112

75.3

105

997.0

Sample ID: mb-58949	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	е	
Client ID: PBS	Batch	n ID: 58 9	949	F	RunNo: 7	6249				
Prep Date: 3/24/2021	Analysis D	ate: 3/	27/2021	8	SeqNo: 2	700345	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	850		1000		85.0	75.3	105			

Sample ID: Ics-58949	SampType: LCS	TestCode: EPA Method	8015D: Gasoline Range
Client ID: LCSS	Batch ID: 58949	RunNo: 76249	
Prep Date: 3/24/2021	Analysis Date: 3/26/2021	SeqNo: 2700346	Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual

Qualifiers:

Surr: BFB

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2103B28**

05-Apr-21

Client: Vertex Resource Group Ltd.

Project: Dinero State 005

Sample ID: Ics-58949 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 58949 RunNo: 76249

Prep Date: 3/24/2021 Analysis Date: 3/26/2021 SeqNo: 2700346 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
 99.6
 80
 120

 Surr: BFB
 970
 1000
 97.1
 75.3
 105

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2103B28**

05-Apr-21

Client: Vertex Resource Group Ltd.

Project: Dinero State 005

Sample ID: LCS-58952	SampT	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch	n ID: 58 9	952	RunNo: 76246							
Prep Date: 3/24/2021	Analysis D	ate: 3/2	26/2021	SeqNo: 2699785			Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.86	0.025	1.000	0	86.4	80	120				
Toluene	0.86	0.050	1.000	0	85.6	80	120				
Ethylbenzene	0.85	0.050	1.000	0	85.1	80	120				
Xylenes, Total	2.5	0.10	3.000	0	84.3	80	120				
Surr: 4-Bromofluorobenzene	0.85		1.000		84.9	80	120				

Sample ID: MB-58952	SampT	Гуре: МЕ	BLK	TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batcl	h ID: 58 9	952	F	RunNo: 76246					
Prep Date: 3/24/2021	Analysis D	Date: 3/	26/2021	S	SeqNo: 2	699786	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.86		1.000		86.0	80	120			

Sample ID: 2103B28-009ams	Sampl	npType: MS TestCode: EPA Method 8021B: Volatiles										
Client ID: BS21-14 2.5'	Batc	h ID: 58 9	952	F	RunNo: 70	6246						
Prep Date: 3/24/2021	Analysis [Date: 3/ 2	26/2021	SeqNo: 2699789 Units: m g				g/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	0.84	0.024	0.9615	0	87.3	76.3	120					
Toluene	0.85	0.048	0.9615	0	88.0	78.5	120					
Ethylbenzene	0.85	0.048	0.9615	0	88.5	78.1	124					
Xylenes, Total	2.5	0.096	2.885	0	87.8	79.3	125					
Surr: 4-Bromofluorobenzene	0.77		0.9615		80.2	80	120					

Sample ID: 2103B28-009amsd	I SampT	ampType: MSD TestCode: EPA Method 8021B: Volatiles								
Client ID: BS21-14 2.5'	Batch	ID: 58 9	952	F	RunNo: 7 0	6246				
Prep Date: 3/24/2021	Analysis D	ate: 3/2	26/2021	SeqNo: 2699790 Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.86	0.025	0.9804	0	87.9	76.3	120	2.66	20	
Toluene	0.87	0.049	0.9804	0	88.5	78.5	120	2.49	20	
Ethylbenzene	0.87	0.049	0.9804	0	89.0	78.1	124	2.51	20	
Xylenes, Total	2.6	0.098	2.941	0	88.2	79.3	125	2.32	20	
Surr: 4-Bromofluorobenzene	0.80		0.9804		81.4	80	120	0	0	

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory, Inc.

0.95

WO#: **2103B28**

05-Apr-21

Client: Vertex Resource Group Ltd.

Project: Dinero State 005

Sample ID: mb-58949 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: PBS Batch ID: 58949 RunNo: 76249 Prep Date: 3/24/2021 Analysis Date: 3/27/2021 SeqNo: 2700407 Units: mg/Kg PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Result Benzene ND 0.025 ND 0.050

 Delizerie
 ND
 0.023

 Toluene
 ND
 0.050

 Ethylbenzene
 ND
 0.050

 Xylenes, Total
 ND
 0.10

Surr: 4-Bromofluorobenzene 0.92 1.000 92.4 80 120

1.000

Sample ID: LCS-58949	SampT	Type: LC	S	TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batcl	h ID: 58 9	949	F	RunNo: 7	6249				
Prep Date: 3/24/2021	Analysis D	Date: 3/ 2	27/2021	5	SeqNo: 2	700408	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.025	1.000	0	98.5	80	120			
Toluene	0.99	0.050	1.000	0	98.9	80	120			
Ethylbenzene	0.97	0.050	1.000	0	96.6	80	120			
Xylenes, Total	2.9	0.10	3.000	0	96.7	80	120			

94.7

80

120

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix

Surr: 4-Bromofluorobenzene

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

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

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

Sample Log-In Check List

Client Name:	Vertex Resource Group Ltd.	Work Order Numb	per: 2103B28		RcptNo: 1	
Received By:	Desiree Dominguez	3/24/2021 8:00:00 A	AM	De		
Completed By:	Desiree Dominguez	3/24/2021 11:06:11	AM	TD3		
Reviewed By:	SPA 3.24	51				
Chain of Cus	stody					
1. Is Chain of C	ustody complete?		Yes 🗸	No 🗌	Not Present	
2. How was the	sample delivered?		Courier			
Log In 3. Was an attern	npt made to cool the samples	?	Yes 🗸	No 🗌	NA 🗌	
4. Were all samp	ples received at a temperature	e of >0° C to 6.0°C	Yes 🗸	No 🗌	NA 🗆	
5. Sample(s) in	proper container(s)?		Yes 🗸	No 🗌		
6. Sufficient sam	nple volume for indicated test(s)?	Yes 🗸	No 🗌		
7. Are samples (except VOA and ONG) prope	rly preserved?	Yes 🗸	No 🗌		
8. Was preserva	tive added to bottles?		Yes	No 🗸	NA 🗌	
9. Received at le	east 1 vial with headspace <1/	4" for AQ VOA?	Yes 🗌	No 🗌	NA 🗸	TO
10. Were any sar	mple containers received brok	en?	Yes	No 🗸	# of preserved	3/24/20
	ork match bottle labels?		Yes 🗸		bottles checked for pH:	2 unless noted)
	ancies on chain of custody) correctly identified on Chain o	f Custody?	Yes 🗸	No 🗆	Adjusted?	2 unless noted)
	t analyses were requested?	Custody:	Yes 🗸	No 🗆		
14. Were all holdi	ng times able to be met? ustomer for authorization.)		Yes 🗹	No 🗆	Checked by:	
	ing (if applicable)					
	otified of all discrepancies with	this order?	Yes	No 🗌	NA 🗹	
Person	Notified:	Date:	-	ASSOCIATION AND ADDRESS OF THE PROPERTY.		
By Who	om:	Via:	eMail F	Phone Fax	In Person	
Regard	ing:			AND AVERAGE OF SECULAR PROPERTY.		
Client I	nstructions:				MERCON CONTROL STATE OF CONTROL CONTROL	
16. Additional re	marks:					
17. Cooler Infor						
Cooler No		Seal Intact Seal No	Seal Date	Signed By		
1	3.7 Good					

Page 177 of 271 Received by OCD: 6/24/2021 4:36:09 PM ANALYSIS LABORATORY HALL ENVIRONMENTAL Sendan lab reports to 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 www.hallenvironmental.com **Analysis Request** Total Coliform (Present/Absent) Verbex, CA (AOV-ima2) 07S8 NO3, NO2, PO4, SO4 Br, RCRA 8 Metals PAHs by 8310 or 8270SIMS Matador EDB (Method 504.1) Pesticides/8082 PCB's Remarks: PD(GRO / DRO / MRO) (BTEX TMB's (8021) MTBE / 0830 00:8 (S) Time HEAL No. 2103828 Time - DOS -008 -00g 40101 -83 T00-7004 1006 100 600-Cooler Temp(including CF): 3.7 -0.0 = 3.7 3/23/21 010 -107 Dinero State #005 12/12/2 Date % □ Monica Peppin Project #: □ Rush Sampler: CTTP/AH Preservative 3 CONTUL Type Turn-Around Time: Project Manager: Project Name: Standard
 Standard # of Coolers: Type and # 5 Received by: Container Received by R) On Ice: 2,5' 2,5, □ Level 4 (Full Validation) 7.5 25 2.5 2,5 2,5 2.5 2,5 7.5 5 Chain-of-Custody Record Sample Name 8521-09 3521-03 BS 21-20 8521-06 8521-14 8521-02 BS 21-10 BS21-13 BS21-18 13-1258 8521-01 11-1258 □ Az Compliance Relinquished by Relinquished by □ Other 9 Matrix Client: Vortex Client: Chain-c 0600 0460 GA/QC Package: 0835 2160 1025 6935 06601 1030 1035 0950 2061 Time 1015 1020 □ EDD (Type) 3/22/0830 email or Fax#: Accreditation: Time: Time: □ Standard □ NELAC Phone #: 3/23/21 2332 Date Date:

f 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

Page 178 of 271 Received by OCD: 6/24/2021 4:36:09 PM ANALYSIS LABORATORY HALL ENVIRONMENTAL As per Monica, update -013 sample depth to 0.5'. 4901 Hawkins NE - Albuquerque, NM 87109 Sendall labrapolets to Tel. 505-345-3975 Fax 505-345-4107 www.hallenvironmental.com permian @ ca **Analysis Request** Total Coliform (Present/Absent) (AOV-im92) 07S8 'EON NO₂, PO₄, SO₄ RCRA 8 Metals SMI20728 to 0188 yd eHA9 EDB (Method 504.1) MMG 4/5/21 8081 Pesticides/8082 PCB's Remarks: ED(GRO / DRO / MRO) (1508) s'BMT &X3T8 5930 Cooler Temp(including CF): 3.7-0.0=3.7 (°C) 2103/328 2.00 Time Dinero Stork #003 いると 1013 2015 410-りに 1016 3/25/21 12/42/8 / Manica Peppin VIE-00087 □ Rush Preservative ICE COULIE Sampler: MTP/ A Yes Turn-Around Time: Project Manager: Project Name: Standard # of Coolers: Type and # 20 Container Project #: Received bg Received N On Ice: 0-2.5 2,5-0-2.5 0-2,5 □ Level 4 (Full Validation) 0-2.5 Chain-of-Custody Record Sample Name BS21-32 LS21-20 12-125M W521-23 42-125M □ Az Compliance Relinquished by exex □ Other Matrix Mailing Address: 280 1005 0360 QA/QC Package: 000 0955 19/10 □ EDD (Type) Time 510122 email or Fax#: Accreditation: Time: Time: □ Standard □ NELAC Phone #: 1 2/K Client: H23/23/2 Date Date:

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



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

April 05, 2021

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

FAX:

RE: Dinero St 005 OrderNo.: 2103B84

Dear Monica Peppin:

Hall Environmental Analysis Laboratory received 50 sample(s) on 3/25/2021 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued April 02, 2021.

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. 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. All samples are reported as received unless otherwise indicated.

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

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

CLIENT: Vertex Resource Group Ltd.

Analytical Report Lab Order 2103B84

Date Reported: 4/5/2021

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BS21-04 2.5'

 Project:
 Dinero St 005
 Collection Date: 3/23/2021 9:00:00 AM

 Lab ID:
 2103B84-001
 Matrix: SOIL
 Received Date: 3/25/2021 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: mb
Diesel Range Organics (DRO)	10	9.1	mg/Kg	1	3/26/2021 8:06:18 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	3/26/2021 8:06:18 AM
Surr: DNOP	83.0	70-130	%Rec	1	3/26/2021 8:06:18 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	3/29/2021 12:12:00 PM
Surr: BFB	83.3	75.3-105	%Rec	1	3/29/2021 12:12:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	3/30/2021 8:50:09 PM
Toluene	ND	0.047	mg/Kg	1	3/30/2021 8:50:09 PM
Ethylbenzene	ND	0.047	mg/Kg	1	3/30/2021 8:50:09 PM
Xylenes, Total	ND	0.095	mg/Kg	1	3/30/2021 8:50:09 PM
Surr: 4-Bromofluorobenzene	99.0	80-120	%Rec	1	3/30/2021 8:50:09 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	73	60	mg/Kg	20	4/1/2021 1:11:14 AM

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

Qualifiers:

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

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

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Date Reported: 4/5/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd. Client Sample ID: BS21-05 2.5'

 Project:
 Dinero St 005
 Collection Date: 3/23/2021 9:05:00 AM

 Lab ID:
 2103B84-002
 Matrix: SOIL
 Received Date: 3/25/2021 7:30:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst: mb
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	3/26/2021 8:42:14 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/26/2021 8:42:14 AM
Surr: DNOP	59.2	70-130	S	%Rec	1	3/26/2021 8:42:14 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/29/2021 1:11:00 PM
Surr: BFB	86.6	75.3-105		%Rec	1	3/29/2021 1:11:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/30/2021 9:13:43 PM
Toluene	ND	0.049		mg/Kg	1	3/30/2021 9:13:43 PM
Ethylbenzene	ND	0.049		mg/Kg	1	3/30/2021 9:13:43 PM
Xylenes, Total	ND	0.099		mg/Kg	1	3/30/2021 9:13:43 PM
Surr: 4-Bromofluorobenzene	98.2	80-120		%Rec	1	3/30/2021 9:13:43 PM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	ND	60		mg/Kg	20	4/1/2021 1:23:38 AM

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

Qualifiers:

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

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

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Analytical ReportLab Order **2103B84**

Date Reported: 4/5/2021

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BS21-07 2.5

 Project:
 Dinero St 005
 Collection Date: 3/23/2021 9:10:00 AM

 Lab ID:
 2103B84-003
 Matrix: SOIL
 Received Date: 3/25/2021 7:30:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst: mb
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	3/26/2021 8:54:00 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/26/2021 8:54:00 AM
Surr: DNOP	38.5	70-130	S	%Rec	1	3/26/2021 8:54:00 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/29/2021 2:50:00 PM
Surr: BFB	79.5	75.3-105		%Rec	1	3/29/2021 2:50:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/30/2021 10:24:27 PM
Toluene	ND	0.050		mg/Kg	1	3/30/2021 10:24:27 PM
Ethylbenzene	ND	0.050		mg/Kg	1	3/30/2021 10:24:27 PM
Xylenes, Total	ND	0.10		mg/Kg	1	3/30/2021 10:24:27 PM
Surr: 4-Bromofluorobenzene	97.2	80-120		%Rec	1	3/30/2021 10:24:27 PM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	99	61		mg/Kg	20	3/31/2021 4:01:34 PM

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

Qualifiers:

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

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

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Date Reported: 4/5/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd. Client Sample ID: BS21-08 2.5'

 Project:
 Dinero St 005
 Collection Date: 3/23/2021 9:15:00 AM

 Lab ID:
 2103B84-004
 Matrix: SOIL
 Received Date: 3/25/2021 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analyst: mb
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	3/26/2021 12:29:02 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	3/26/2021 12:29:02 PM
Surr: DNOP	130	70-130	%Rec	1	3/26/2021 12:29:02 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	3/29/2021 3:10:00 PM
Surr: BFB	83.4	75.3-105	%Rec	1	3/29/2021 3:10:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.023	mg/Kg	1	3/30/2021 10:47:55 PM
Toluene	ND	0.047	mg/Kg	1	3/30/2021 10:47:55 PM
Ethylbenzene	ND	0.047	mg/Kg	1	3/30/2021 10:47:55 PM
Xylenes, Total	ND	0.093	mg/Kg	1	3/30/2021 10:47:55 PM
Surr: 4-Bromofluorobenzene	97.1	80-120	%Rec	1	3/30/2021 10:47:55 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	100	61	mg/Kg	20	3/31/2021 4:38:47 PM

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

Qualifiers:

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

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

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Date Reported: 4/5/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd. Client Sample ID: BS21-12 2.5'

 Project:
 Dinero St 005
 Collection Date: 3/23/2021 9:20:00 AM

 Lab ID:
 2103B84-005
 Matrix: SOIL
 Received Date: 3/25/2021 7:30:00 AM

Analyses	Result	RL Qu	ual Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analyst: mb
Diesel Range Organics (DRO)	32	9.7	mg/Kg	1	3/26/2021 12:41:09 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	3/26/2021 12:41:09 PM
Surr: DNOP	105	70-130	%Rec	1	3/26/2021 12:41:09 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/29/2021 3:30:00 PM
Surr: BFB	80.6	75.3-105	%Rec	1	3/29/2021 3:30:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	3/30/2021 11:11:35 PM
Toluene	ND	0.049	mg/Kg	1	3/30/2021 11:11:35 PM
Ethylbenzene	ND	0.049	mg/Kg	1	3/30/2021 11:11:35 PM
Xylenes, Total	ND	0.097	mg/Kg	1	3/30/2021 11:11:35 PM
Surr: 4-Bromofluorobenzene	97.6	80-120	%Rec	1	3/30/2021 11:11:35 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	330	60	mg/Kg	20	3/31/2021 5:16:02 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 4/5/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd.

Client Sample ID: BS21-15 2.5'

 Project:
 Dinero St 005
 Collection Date: 3/23/2021 9:25:00 AM

 Lab ID:
 2103B84-006
 Matrix: SOIL
 Received Date: 3/25/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst: mb
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/26/2021 12:53:19 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/26/2021 12:53:19 PM
Surr: DNOP	57.9	70-130	S	%Rec	1	3/26/2021 12:53:19 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/29/2021 3:49:00 PM
Surr: BFB	85.0	75.3-105		%Rec	1	3/29/2021 3:49:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/30/2021 11:35:06 PM
Toluene	ND	0.049		mg/Kg	1	3/30/2021 11:35:06 PM
Ethylbenzene	ND	0.049		mg/Kg	1	3/30/2021 11:35:06 PM
Xylenes, Total	ND	0.098		mg/Kg	1	3/30/2021 11:35:06 PM
Surr: 4-Bromofluorobenzene	98.7	80-120		%Rec	1	3/30/2021 11:35:06 PM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	300	60		mg/Kg	20	3/31/2021 5:28:27 PM

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

Qualifiers:

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

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

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Date Reported: 4/5/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd. Client Sample ID: BS21-16 2.5'

 Project:
 Dinero St 005
 Collection Date: 3/23/2021 9:30:00 AM

 Lab ID:
 2103B84-007
 Matrix: SOIL
 Received Date: 3/25/2021 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst: mb
Diesel Range Organics (DRO)	37	9.6	mg/Kg	1	3/26/2021 1:17:32 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	3/26/2021 1:17:32 PM
Surr: DNOP	108	70-130	%Rec	1	3/26/2021 1:17:32 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	3/29/2021 4:09:00 PM
Surr: BFB	83.8	75.3-105	%Rec	1	3/29/2021 4:09:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	3/31/2021 12:45:52 AM
Toluene	ND	0.050	mg/Kg	1	3/31/2021 12:45:52 AM
Ethylbenzene	ND	0.050	mg/Kg	1	3/31/2021 12:45:52 AM
Xylenes, Total	ND	0.099	mg/Kg	1	3/31/2021 12:45:52 AM
Surr: 4-Bromofluorobenzene	98.2	80-120	%Rec	1	3/31/2021 12:45:52 AM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	500	60	mg/Kg	20	3/31/2021 6:05:40 PM

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

Qualifiers:

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

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

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Date Reported: 4/5/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd. Client Sample ID: BS21-17 2.5'

 Project:
 Dinero St 005
 Collection Date: 3/23/2021 9:35:00 AM

 Lab ID:
 2103B84-008
 Matrix: SOIL
 Received Date: 3/25/2021 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE C	RGANICS				Analyst: mb
Diesel Range Organics (DRO)	12	9.7	mg/Kg	1	3/26/2021 1:29:34 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	3/26/2021 1:29:34 PM
Surr: DNOP	81.1	70-130	%Rec	1	3/26/2021 1:29:34 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/29/2021 4:29:00 PM
Surr: BFB	83.1	75.3-105	%Rec	1	3/29/2021 4:29:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	3/31/2021 1:09:21 AM
Toluene	ND	0.049	mg/Kg	1	3/31/2021 1:09:21 AM
Ethylbenzene	ND	0.049	mg/Kg	1	3/31/2021 1:09:21 AM
Xylenes, Total	ND	0.098	mg/Kg	1	3/31/2021 1:09:21 AM
Surr: 4-Bromofluorobenzene	97.4	80-120	%Rec	1	3/31/2021 1:09:21 AM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	62	60	mg/Kg	20	3/31/2021 6:18:04 PM

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

Qualifiers:

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

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

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Date Reported: 4/5/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd. Client Sample ID: BS21-21 2.5'

 Project:
 Dinero St 005
 Collection Date: 3/23/2021 9:40:00 AM

 Lab ID:
 2103B84-009
 Matrix: SOIL
 Received Date: 3/25/2021 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE C	RGANICS				Analyst: mb
Diesel Range Organics (DRO)	21	9.7	mg/Kg	1	3/26/2021 1:41:38 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	3/26/2021 1:41:38 PM
Surr: DNOP	79.1	70-130	%Rec	1	3/26/2021 1:41:38 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	3/29/2021 5:28:00 PM
Surr: BFB	81.0	75.3-105	%Rec	1	3/29/2021 5:28:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	3/31/2021 1:32:54 AM
Toluene	ND	0.047	mg/Kg	1	3/31/2021 1:32:54 AM
Ethylbenzene	ND	0.047	mg/Kg	1	3/31/2021 1:32:54 AM
Xylenes, Total	ND	0.094	mg/Kg	1	3/31/2021 1:32:54 AM
Surr: 4-Bromofluorobenzene	97.9	80-120	%Rec	1	3/31/2021 1:32:54 AM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	77	60	mg/Kg	20	3/31/2021 6:30:29 PM

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

Qualifiers:

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

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

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Analytical Report Lab Order 2103B84

Date Reported: 4/5/2021

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BS21-22 2.5'

 Project:
 Dinero St 005
 Collection Date: 3/23/2021 9:45:00 AM

 Lab ID:
 2103B84-010
 Matrix: SOIL
 Received Date: 3/25/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS					Analyst: mb
Diesel Range Organics (DRO)	13	9.6		mg/Kg	1	3/26/2021 1:53:37 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/26/2021 1:53:37 PM
Surr: DNOP	52.3	70-130	S	%Rec	1	3/26/2021 1:53:37 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/29/2021 5:48:00 PM
Surr: BFB	80.3	75.3-105		%Rec	1	3/29/2021 5:48:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/31/2021 1:56:22 AM
Toluene	ND	0.049		mg/Kg	1	3/31/2021 1:56:22 AM
Ethylbenzene	ND	0.049		mg/Kg	1	3/31/2021 1:56:22 AM
Xylenes, Total	ND	0.098		mg/Kg	1	3/31/2021 1:56:22 AM
Surr: 4-Bromofluorobenzene	97.0	80-120		%Rec	1	3/31/2021 1:56:22 AM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	100	60		mg/Kg	20	3/31/2021 6:42:54 PM

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

Qualifiers:

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

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

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Date Reported: 4/5/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd. Client Sample ID: BS21-23 2.5'

 Project:
 Dinero St 005
 Collection Date: 3/23/2021 9:50:00 AM

 Lab ID:
 2103B84-011
 Matrix: SOIL
 Received Date: 3/25/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst: mb
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	3/26/2021 2:05:41 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/26/2021 2:05:41 PM
Surr: DNOP	68.3	70-130	S	%Rec	1	3/26/2021 2:05:41 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/29/2021 6:08:00 PM
Surr: BFB	81.1	75.3-105		%Rec	1	3/29/2021 6:08:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/31/2021 2:19:51 AM
Toluene	ND	0.049		mg/Kg	1	3/31/2021 2:19:51 AM
Ethylbenzene	ND	0.049		mg/Kg	1	3/31/2021 2:19:51 AM
Xylenes, Total	ND	0.098		mg/Kg	1	3/31/2021 2:19:51 AM
Surr: 4-Bromofluorobenzene	99.4	80-120		%Rec	1	3/31/2021 2:19:51 AM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	140	60		mg/Kg	20	3/31/2021 6:55:18 PM

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

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory, Inc. Date Reported: 4/5/2021

CLIENT: Vertex Resource Group Ltd. Client Sample ID: BS21-24 2.5'

 Project:
 Dinero St 005
 Collection Date: 3/23/2021 9:55:00 AM

 Lab ID:
 2103B84-012
 Matrix: SOIL
 Received Date: 3/25/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS					Analyst: mb
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	3/26/2021 2:17:49 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/26/2021 2:17:49 PM
Surr: DNOP	38.9	70-130	S	%Rec	1	3/26/2021 2:17:49 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/29/2021 6:27:00 PM
Surr: BFB	81.0	75.3-105		%Rec	1	3/29/2021 6:27:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/31/2021 2:43:22 AM
Toluene	ND	0.050		mg/Kg	1	3/31/2021 2:43:22 AM
Ethylbenzene	ND	0.050		mg/Kg	1	3/31/2021 2:43:22 AM
Xylenes, Total	ND	0.10		mg/Kg	1	3/31/2021 2:43:22 AM
Surr: 4-Bromofluorobenzene	99.2	80-120		%Rec	1	3/31/2021 2:43:22 AM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	87	59		mg/Kg	20	3/31/2021 7:07:43 PM

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

Qualifiers:

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

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

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Analytical Report Lab Order 2103B84

Date Reported: 4/5/2021

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BS21-25 2.5

 Project:
 Dinero St 005
 Collection Date: 3/23/2021 10:00:00 AM

 Lab ID:
 2103B84-013
 Matrix: SOIL
 Received Date: 3/25/2021 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: mb
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	3/26/2021 2:29:45 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	3/26/2021 2:29:45 PM
Surr: DNOP	79.3	70-130	%Rec	1	3/26/2021 2:29:45 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/29/2021 6:47:00 PM
Surr: BFB	81.5	75.3-105	%Rec	1	3/29/2021 6:47:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	3/31/2021 3:06:48 AM
Toluene	ND	0.048	mg/Kg	1	3/31/2021 3:06:48 AM
Ethylbenzene	ND	0.048	mg/Kg	1	3/31/2021 3:06:48 AM
Xylenes, Total	ND	0.096	mg/Kg	1	3/31/2021 3:06:48 AM
Surr: 4-Bromofluorobenzene	98.7	80-120	%Rec	1	3/31/2021 3:06:48 AM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	190	60	mg/Kg	20	3/31/2021 7:20:07 PM

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

Qualifiers:

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

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

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Date Reported: 4/5/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd. Client Sample ID: BS21-26 2.5'

 Project:
 Dinero St 005
 Collection Date: 3/23/2021 10:05:00 AM

 Lab ID:
 2103B84-014
 Matrix: SOIL
 Received Date: 3/25/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS				Analyst: mb		
Diesel Range Organics (DRO)	180	9.8		mg/Kg	1	3/26/2021 2:41:49 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/26/2021 2:41:49 PM
Surr: DNOP	46.5	70-130	S	%Rec	1	3/26/2021 2:41:49 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	3/29/2021 7:07:00 PM
Surr: BFB	88.0	75.3-105		%Rec	5	3/29/2021 7:07:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.12		mg/Kg	5	3/31/2021 3:30:12 AM
Toluene	ND	0.24		mg/Kg	5	3/31/2021 3:30:12 AM
Ethylbenzene	ND	0.24		mg/Kg	5	3/31/2021 3:30:12 AM
Xylenes, Total	ND	0.48		mg/Kg	5	3/31/2021 3:30:12 AM
Surr: 4-Bromofluorobenzene	96.2	80-120		%Rec	5	3/31/2021 3:30:12 AM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	180	60		mg/Kg	20	3/31/2021 7:32:33 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Analytical Report Lab Order 2103B84

Date Reported: 4/5/2021

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BS21-27 2.5'

 Project:
 Dinero St 005
 Collection Date: 3/23/2021 10:10:00 AM

 Lab ID:
 2103B84-015
 Matrix: SOIL
 Received Date: 3/25/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS				Analyst: mb		
Diesel Range Organics (DRO)	93	9.7		mg/Kg	1	3/26/2021 2:53:52 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/26/2021 2:53:52 PM
Surr: DNOP	57.2	70-130	S	%Rec	1	3/26/2021 2:53:52 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/29/2021 7:27:00 PM
Surr: BFB	86.2	75.3-105		%Rec	1	3/29/2021 7:27:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/31/2021 3:53:33 AM
Toluene	ND	0.049		mg/Kg	1	3/31/2021 3:53:33 AM
Ethylbenzene	ND	0.049		mg/Kg	1	3/31/2021 3:53:33 AM
Xylenes, Total	ND	0.098		mg/Kg	1	3/31/2021 3:53:33 AM
Surr: 4-Bromofluorobenzene	95.5	80-120		%Rec	1	3/31/2021 3:53:33 AM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	460	59		mg/Kg	20	3/31/2021 7:44:57 PM

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

Qualifiers:

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

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

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Analytical ReportLab Order **2103B84**

Date Reported: 4/5/2021

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BS21-28 2.5'

 Project:
 Dinero St 005
 Collection Date: 3/23/2021 10:15:00 AM

 Lab ID:
 2103B84-016
 Matrix: SOIL
 Received Date: 3/25/2021 7:30:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: mb
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	3/26/2021 3:05:56 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/26/2021 3:05:56 PM
Surr: DNOP	53.3	70-130	S	%Rec	1	3/26/2021 3:05:56 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/29/2021 7:47:00 PM
Surr: BFB	85.6	75.3-105		%Rec	1	3/29/2021 7:47:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/31/2021 10:51:17 AM
Toluene	ND	0.050		mg/Kg	1	3/31/2021 10:51:17 AM
Ethylbenzene	ND	0.050		mg/Kg	1	3/31/2021 10:51:17 AM
Xylenes, Total	ND	0.099		mg/Kg	1	3/31/2021 10:51:17 AM
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	3/31/2021 10:51:17 AM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	85	60		mg/Kg	20	3/31/2021 7:57:21 PM

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

Qualifiers:

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

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

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Analytical ReportLab Order **2103B84**

Date Reported: 4/5/2021

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BS21-29 2.5'

 Project:
 Dinero St 005
 Collection Date: 3/23/2021 10:20:00 AM

 Lab ID:
 2103B84-017
 Matrix: SOIL
 Received Date: 3/25/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analyst: mb	
Diesel Range Organics (DRO)	19	9.5		mg/Kg	1	3/26/2021 3:18:01 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/26/2021 3:18:01 PM
Surr: DNOP	46.4	70-130	S	%Rec	1	3/26/2021 3:18:01 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/29/2021 8:06:00 PM
Surr: BFB	81.6	75.3-105		%Rec	1	3/29/2021 8:06:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/31/2021 11:14:48 AM
Toluene	ND	0.049		mg/Kg	1	3/31/2021 11:14:48 AM
Ethylbenzene	ND	0.049		mg/Kg	1	3/31/2021 11:14:48 AM
Xylenes, Total	ND	0.098		mg/Kg	1	3/31/2021 11:14:48 AM
Surr: 4-Bromofluorobenzene	98.6	70-130		%Rec	1	3/31/2021 11:14:48 AM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	260	60		mg/Kg	20	3/31/2021 8:34:36 PM

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

Qualifiers:

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

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

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Analytical ReportLab Order **2103B84**

Date Reported: 4/5/2021

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BS21-30 2.5'

 Project:
 Dinero St 005
 Collection Date: 3/23/2021 10:25:00 AM

 Lab ID:
 2103B84-018
 Matrix: SOIL
 Received Date: 3/25/2021 7:30:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analyst: mb
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	3/26/2021 3:30:03 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	3/26/2021 3:30:03 PM
Surr: DNOP	47.0	70-130	S	%Rec	1	3/26/2021 3:30:03 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/29/2021 8:26:00 PM
Surr: BFB	86.4	75.3-105		%Rec	1	3/29/2021 8:26:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/31/2021 11:38:19 AM
Toluene	ND	0.049		mg/Kg	1	3/31/2021 11:38:19 AM
Ethylbenzene	ND	0.049		mg/Kg	1	3/31/2021 11:38:19 AM
Xylenes, Total	ND	0.098		mg/Kg	1	3/31/2021 11:38:19 AM
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	3/31/2021 11:38:19 AM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	90	60		mg/Kg	20	3/31/2021 8:47:00 PM

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

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory, Inc.

Date Reported: 4/5/2021

CLIENT: Vertex Resource Group Ltd. Client Sample ID: BS21-31 0.5'

 Project:
 Dinero St 005
 Collection Date: 3/23/2021 10:30:00 AM

 Lab ID:
 2103B84-019
 Matrix: SOIL
 Received Date: 3/25/2021 7:30:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: mb
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	3/26/2021 3:42:07 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/26/2021 3:42:07 PM
Surr: DNOP	51.0	70-130	S	%Rec	1	3/26/2021 3:42:07 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	3/29/2021 9:06:00 PM
Surr: BFB	80.5	75.3-105		%Rec	1	3/29/2021 9:06:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	3/31/2021 12:01:46 PM
Toluene	ND	0.046		mg/Kg	1	3/31/2021 12:01:46 PM
Ethylbenzene	ND	0.046		mg/Kg	1	3/31/2021 12:01:46 PM
Xylenes, Total	ND	0.092		mg/Kg	1	3/31/2021 12:01:46 PM
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	3/31/2021 12:01:46 PM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	ND	59		mg/Kg	20	3/31/2021 8:59:25 PM

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

Qualifiers:

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

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

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Analytical ReportLab Order **2103B84**

Date Reported: 4/5/2021

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BS21-33 2.5'

 Project:
 Dinero St 005
 Collection Date: 3/23/2021 10:35:00 AM

 Lab ID:
 2103B84-020
 Matrix: SOIL
 Received Date: 3/25/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analyst: mb	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	3/26/2021 3:54:16 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/26/2021 3:54:16 PM
Surr: DNOP	52.1	70-130	S	%Rec	1	3/26/2021 3:54:16 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/29/2021 9:25:00 PM
Surr: BFB	82.1	75.3-105		%Rec	1	3/29/2021 9:25:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/31/2021 12:25:08 PM
Toluene	ND	0.048		mg/Kg	1	3/31/2021 12:25:08 PM
Ethylbenzene	ND	0.048		mg/Kg	1	3/31/2021 12:25:08 PM
Xylenes, Total	ND	0.096		mg/Kg	1	3/31/2021 12:25:08 PM
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	3/31/2021 12:25:08 PM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	290	60		mg/Kg	20	3/31/2021 9:11:49 PM

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

Qualifiers:

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

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

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Analytical Report Lab Order 2103B84

Date Reported: 4/5/2021

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BS21-34 2.5'

 Project:
 Dinero St 005
 Collection Date: 3/23/2021 10:40:00 AM

 Lab ID:
 2103B84-021
 Matrix: SOIL
 Received Date: 3/25/2021 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analyst: mb
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	3/27/2021 3:48:13 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	3/27/2021 3:48:13 PM
Surr: DNOP	114	70-130	%Rec	1	3/27/2021 3:48:13 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	3/30/2021 7:39:14 PM
Surr: BFB	96.7	75.3-105	%Rec	1	3/30/2021 7:39:14 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	3/30/2021 7:39:14 PM
Toluene	ND	0.047	mg/Kg	1	3/30/2021 7:39:14 PM
Ethylbenzene	ND	0.047	mg/Kg	1	3/30/2021 7:39:14 PM
Xylenes, Total	ND	0.094	mg/Kg	1	3/30/2021 7:39:14 PM
Surr: 4-Bromofluorobenzene	97.9	80-120	%Rec	1	3/30/2021 7:39:14 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	180	59	mg/Kg	20	3/31/2021 9:24:13 PM

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

Qualifiers:

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

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

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Analytical ReportLab Order **2103B84**

Date Reported: 4/5/2021

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BS21-35 2.5'

 Project:
 Dinero St 005
 Collection Date: 3/23/2021 10:45:00 AM

 Lab ID:
 2103B84-022
 Matrix: SOIL
 Received Date: 3/25/2021 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: mb
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	3/27/2021 4:00:34 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	3/27/2021 4:00:34 PM
Surr: DNOP	111	70-130	%Rec	1	3/27/2021 4:00:34 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/30/2021 8:02:57 PM
Surr: BFB	99.3	75.3-105	%Rec	1	3/30/2021 8:02:57 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	3/30/2021 8:02:57 PM
Toluene	ND	0.049	mg/Kg	1	3/30/2021 8:02:57 PM
Ethylbenzene	ND	0.049	mg/Kg	1	3/30/2021 8:02:57 PM
Xylenes, Total	ND	0.097	mg/Kg	1	3/30/2021 8:02:57 PM
Surr: 4-Bromofluorobenzene	100	80-120	%Rec	1	3/30/2021 8:02:57 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	70	60	mg/Kg	20	3/31/2021 9:36:37 PM

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

Qualifiers:

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

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

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Date Reported: 4/5/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd. Client Sample ID: BS21-36 2.5'

 Project:
 Dinero St 005
 Collection Date: 3/23/2021 10:50:00 AM

 Lab ID:
 2103B84-023
 Matrix: SOIL
 Received Date: 3/25/2021 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analyst: mb
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	3/27/2021 4:50:28 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	3/27/2021 4:50:28 PM
Surr: DNOP	78.8	70-130	%Rec	1	3/27/2021 4:50:28 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/31/2021 4:44:36 PM
Surr: BFB	98.8	70-130	%Rec	1	3/31/2021 4:44:36 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	3/31/2021 4:44:36 PM
Toluene	ND	0.048	mg/Kg	1	3/31/2021 4:44:36 PM
Ethylbenzene	ND	0.048	mg/Kg	1	3/31/2021 4:44:36 PM
Xylenes, Total	ND	0.097	mg/Kg	1	3/31/2021 4:44:36 PM
Surr: 4-Bromofluorobenzene	98.5	70-130	%Rec	1	3/31/2021 4:44:36 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	80	59	mg/Kg	20	3/31/2021 10:13:50 PM

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

Qualifiers:

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

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

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Analytical Report Lab Order 2103B84

Date Reported: 4/5/2021

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BS21-37 2.5'

 Project:
 Dinero St 005
 Collection Date: 3/23/2021 10:55:00 AM

 Lab ID:
 2103B84-024
 Matrix: SOIL
 Received Date: 3/25/2021 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG		Analyst: mb			
Diesel Range Organics (DRO)	42	9.4	mg/Kg	1	3/27/2021 5:27:59 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	3/27/2021 5:27:59 PM
Surr: DNOP	77.9	70-130	%Rec	1	3/27/2021 5:27:59 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/31/2021 5:55:26 PM
Surr: BFB	93.6	70-130	%Rec	1	3/31/2021 5:55:26 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	3/31/2021 5:55:26 PM
Toluene	ND	0.049	mg/Kg	1	3/31/2021 5:55:26 PM
Ethylbenzene	ND	0.049	mg/Kg	1	3/31/2021 5:55:26 PM
Xylenes, Total	ND	0.098	mg/Kg	1	3/31/2021 5:55:26 PM
Surr: 4-Bromofluorobenzene	95.2	70-130	%Rec	1	3/31/2021 5:55:26 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	130	60	mg/Kg	20	3/31/2021 10:26:15 PM

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

Qualifiers:

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

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

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Analytical ReportLab Order **2103B84**

Date Reported: 4/5/2021

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BS21-38 2.5'

 Project:
 Dinero St 005
 Collection Date: 3/23/2021 11:00:00 AM

 Lab ID:
 2103B84-025
 Matrix: SOIL
 Received Date: 3/25/2021 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	
EPA METHOD 8015M/D: DIESEL RANGE ORG	EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					
Diesel Range Organics (DRO)	13	9.7	mg/Kg	1	3/27/2021 5:40:20 PM	
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	3/27/2021 5:40:20 PM	
Surr: DNOP	86.9	70-130	%Rec	1	3/27/2021 5:40:20 PM	
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB	
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/31/2021 7:06:18 PM	
Surr: BFB	98.2	70-130	%Rec	1	3/31/2021 7:06:18 PM	
EPA METHOD 8021B: VOLATILES					Analyst: NSB	
Benzene	ND	0.025	mg/Kg	1	3/31/2021 7:06:18 PM	
Toluene	ND	0.049	mg/Kg	1	3/31/2021 7:06:18 PM	
Ethylbenzene	ND	0.049	mg/Kg	1	3/31/2021 7:06:18 PM	
Xylenes, Total	ND	0.099	mg/Kg	1	3/31/2021 7:06:18 PM	
Surr: 4-Bromofluorobenzene	100	70-130	%Rec	1	3/31/2021 7:06:18 PM	
EPA METHOD 300.0: ANIONS					Analyst: VP	
Chloride	250	60	mg/Kg	20	3/31/2021 11:28:18 PM	

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

Qualifiers:

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

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

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Analytical Report Lab Order 2103B84

Date Reported: 4/5/2021

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BS21-39 2.5'

 Project:
 Dinero St 005
 Collection Date: 3/23/2021 11:05:00 AM

 Lab ID:
 2103B84-026
 Matrix: SOIL
 Received Date: 3/25/2021 7:30:00 AM

Analyses	Result	RL ·	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE C	RGANICS					Analyst: mb
Diesel Range Organics (DRO)	13	10		mg/Kg	1	3/27/2021 5:52:46 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/27/2021 5:52:46 PM
Surr: DNOP	65.3	70-130	S	%Rec	1	3/27/2021 5:52:46 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/31/2021 7:29:42 PM
Surr: BFB	98.0	70-130		%Rec	1	3/31/2021 7:29:42 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/31/2021 7:29:42 PM
Toluene	ND	0.050		mg/Kg	1	3/31/2021 7:29:42 PM
Ethylbenzene	ND	0.050		mg/Kg	1	3/31/2021 7:29:42 PM
Xylenes, Total	ND	0.099		mg/Kg	1	3/31/2021 7:29:42 PM
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	3/31/2021 7:29:42 PM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	ND	60		mg/Kg	20	4/1/2021 12:05:32 AM

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

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory, Inc.

Date Reported: 4/5/2021

CLIENT: Vertex Resource Group Ltd.

Client Sample ID: BS21-40 2.5'

 Project:
 Dinero St 005
 Collection Date: 3/23/2021 11:10:00 AM

 Lab ID:
 2103B84-027
 Matrix: SOIL
 Received Date: 3/25/2021 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	Analyst: mb				
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	3/27/2021 6:05:07 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	3/27/2021 6:05:07 PM
Surr: DNOP	73.1	70-130	%Rec	1	3/27/2021 6:05:07 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	3/31/2021 7:53:07 PM
Surr: BFB	99.8	70-130	%Rec	1	3/31/2021 7:53:07 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	3/31/2021 7:53:07 PM
Toluene	ND	0.050	mg/Kg	1	3/31/2021 7:53:07 PM
Ethylbenzene	ND	0.050	mg/Kg	1	3/31/2021 7:53:07 PM
Xylenes, Total	ND	0.099	mg/Kg	1	3/31/2021 7:53:07 PM
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	3/31/2021 7:53:07 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	ND	60	mg/Kg	20	4/1/2021 12:17:57 AM

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

Qualifiers:

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

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

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Date Reported: 4/5/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd. Client Sample ID: WS21-01 0-2.5

 Project:
 Dinero St 005
 Collection Date: 3/23/2021 11:30:00 AM

 Lab ID:
 2103B84-028
 Matrix: SOIL
 Received Date: 3/25/2021 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: mb
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	3/27/2021 6:17:26 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	3/27/2021 6:17:26 PM
Surr: DNOP	86.5	70-130	%Rec	1	3/27/2021 6:17:26 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/31/2021 8:16:35 PM
Surr: BFB	97.2	70-130	%Rec	1	3/31/2021 8:16:35 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	3/31/2021 8:16:35 PM
Toluene	ND	0.048	mg/Kg	1	3/31/2021 8:16:35 PM
Ethylbenzene	ND	0.048	mg/Kg	1	3/31/2021 8:16:35 PM
Xylenes, Total	ND	0.096	mg/Kg	1	3/31/2021 8:16:35 PM
Surr: 4-Bromofluorobenzene	99.2	70-130	%Rec	1	3/31/2021 8:16:35 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	86	60	mg/Kg	20	4/1/2021 12:30:21 AM

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

Qualifiers:

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

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

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Analytical ReportLab Order **2103B84**

Date Reported: 4/5/2021

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: WS21-02 0-2.5

 Project:
 Dinero St 005
 Collection Date: 3/23/2021 11:35:00 AM

 Lab ID:
 2103B84-029
 Matrix: SOIL
 Received Date: 3/25/2021 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG		Analyst: mb			
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	3/27/2021 6:29:48 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	3/27/2021 6:29:48 PM
Surr: DNOP	86.1	70-130	%Rec	1	3/27/2021 6:29:48 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	3/31/2021 8:40:18 PM
Surr: BFB	97.9	70-130	%Rec	1	3/31/2021 8:40:18 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	3/31/2021 8:40:18 PM
Toluene	ND	0.050	mg/Kg	1	3/31/2021 8:40:18 PM
Ethylbenzene	ND	0.050	mg/Kg	1	3/31/2021 8:40:18 PM
Xylenes, Total	ND	0.10	mg/Kg	1	3/31/2021 8:40:18 PM
Surr: 4-Bromofluorobenzene	98.3	70-130	%Rec	1	3/31/2021 8:40:18 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	77	60	mg/Kg	20	4/1/2021 12:42:46 AM

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

Qualifiers:

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

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

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Date Reported: 4/5/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd. Client Sample ID: WS21-03 0-2.5

 Project:
 Dinero St 005
 Collection Date: 3/23/2021 11:40:00 AM

 Lab ID:
 2103B84-030
 Matrix: SOIL
 Received Date: 3/25/2021 7:30:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE (ORGANICS					Analyst: mb
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	3/27/2021 6:42:05 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/27/2021 6:42:05 PM
Surr: DNOP	57.4	70-130	S	%Rec	1	3/27/2021 6:42:05 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/31/2021 9:03:58 PM
Surr: BFB	97.1	70-130		%Rec	1	3/31/2021 9:03:58 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/31/2021 9:03:58 PM
Toluene	ND	0.049		mg/Kg	1	3/31/2021 9:03:58 PM
Ethylbenzene	ND	0.049		mg/Kg	1	3/31/2021 9:03:58 PM
Xylenes, Total	ND	0.098		mg/Kg	1	3/31/2021 9:03:58 PM
Surr: 4-Bromofluorobenzene	98.4	70-130		%Rec	1	3/31/2021 9:03:58 PM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	420	60		mg/Kg	20	4/1/2021 12:55:11 AM

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

Qualifiers:

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

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

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Analytical Report Lab Order 2103B84

Date Reported: 4/5/2021

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: WS21-04 0-2.5

 Project:
 Dinero St 005
 Collection Date: 3/23/2021 11:45:00 AM

 Lab ID:
 2103B84-031
 Matrix: SOIL
 Received Date: 3/25/2021 7:30:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS				Analyst: mb		
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	3/27/2021 6:54:26 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/27/2021 6:54:26 PM
Surr: DNOP	67.2	70-130	S	%Rec	1	3/27/2021 6:54:26 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/31/2021 9:27:31 PM
Surr: BFB	101	70-130		%Rec	1	3/31/2021 9:27:31 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/31/2021 9:27:31 PM
Toluene	ND	0.049		mg/Kg	1	3/31/2021 9:27:31 PM
Ethylbenzene	ND	0.049		mg/Kg	1	3/31/2021 9:27:31 PM
Xylenes, Total	ND	0.099		mg/Kg	1	3/31/2021 9:27:31 PM
Surr: 4-Bromofluorobenzene	98.6	70-130		%Rec	1	3/31/2021 9:27:31 PM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	170	60		mg/Kg	20	4/1/2021 1:32:24 AM

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

Qualifiers:

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

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

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Date Reported: 4/5/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd. Client Sample ID: WS21-05 0-2.5

 Project:
 Dinero St 005
 Collection Date: 3/23/2021 11:50:00 AM

 Lab ID:
 2103B84-032
 Matrix: SOIL
 Received Date: 3/25/2021 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE C	RGANICS				Analyst: mb
Diesel Range Organics (DRO)	12	10	mg/Kg	1	3/27/2021 7:06:42 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	3/27/2021 7:06:42 PM
Surr: DNOP	79.8	70-130	%Rec	1	3/27/2021 7:06:42 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/31/2021 9:51:04 PM
Surr: BFB	97.0	70-130	%Rec	1	3/31/2021 9:51:04 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	3/31/2021 9:51:04 PM
Toluene	ND	0.048	mg/Kg	1	3/31/2021 9:51:04 PM
Ethylbenzene	ND	0.048	mg/Kg	1	3/31/2021 9:51:04 PM
Xylenes, Total	ND	0.096	mg/Kg	1	3/31/2021 9:51:04 PM
Surr: 4-Bromofluorobenzene	97.2	70-130	%Rec	1	3/31/2021 9:51:04 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	320	60	mg/Kg	20	4/1/2021 1:44:49 AM

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

Qualifiers:

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

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

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Date Reported: 4/5/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd. Client Sample ID: WS21-06 0-2.5

 Project:
 Dinero St 005
 Collection Date: 3/23/2021 11:55:00 AM

 Lab ID:
 2103B84-033
 Matrix: SOIL
 Received Date: 3/25/2021 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analyst: mb
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	3/27/2021 7:18:59 PM
Motor Oil Range Organics (MRO)	ND	51	mg/Kg	1	3/27/2021 7:18:59 PM
Surr: DNOP	81.7	70-130	%Rec	1	3/27/2021 7:18:59 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/31/2021 11:01:41 PM
Surr: BFB	99.9	70-130	%Rec	1	3/31/2021 11:01:41 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	3/31/2021 11:01:41 PM
Toluene	ND	0.049	mg/Kg	1	3/31/2021 11:01:41 PM
Ethylbenzene	ND	0.049	mg/Kg	1	3/31/2021 11:01:41 PM
Xylenes, Total	ND	0.098	mg/Kg	1	3/31/2021 11:01:41 PM
Surr: 4-Bromofluorobenzene	99.0	70-130	%Rec	1	3/31/2021 11:01:41 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	65	60	mg/Kg	20	4/1/2021 1:57:14 AM

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

Qualifiers:

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

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

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Analytical Report Lab Order 2103B84

Date Reported: 4/5/2021

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: WS21-08 0-2.5

 Project:
 Dinero St 005
 Collection Date: 3/23/2021 12:00:00 PM

 Lab ID:
 2103B84-034
 Matrix: SOIL
 Received Date: 3/25/2021 7:30:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analyst: mb	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	3/27/2021 7:31:16 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/27/2021 7:31:16 PM
Surr: DNOP	65.5	70-130	S	%Rec	1	3/27/2021 7:31:16 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/31/2021 11:25:20 PM
Surr: BFB	101	70-130		%Rec	1	3/31/2021 11:25:20 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/31/2021 11:25:20 PM
Toluene	ND	0.049		mg/Kg	1	3/31/2021 11:25:20 PM
Ethylbenzene	ND	0.049		mg/Kg	1	3/31/2021 11:25:20 PM
Xylenes, Total	ND	0.098		mg/Kg	1	3/31/2021 11:25:20 PM
Surr: 4-Bromofluorobenzene	98.8	70-130		%Rec	1	3/31/2021 11:25:20 PM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	95	60		mg/Kg	20	4/1/2021 2:09:38 AM

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

Qualifiers:

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

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

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Analytical ReportLab Order **2103B84**

Date Reported: 4/5/2021

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: WS21-09 0-2.5

 Project:
 Dinero St 005
 Collection Date: 3/23/2021 12:05:00 PM

 Lab ID:
 2103B84-035
 Matrix: SOIL
 Received Date: 3/25/2021 7:30:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: mb
Diesel Range Organics (DRO)	59	9.8		mg/Kg	1	3/27/2021 7:43:27 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/27/2021 7:43:27 PM
Surr: DNOP	56.2	70-130	S	%Rec	1	3/27/2021 7:43:27 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/31/2021 11:48:49 PM
Surr: BFB	97.5	70-130		%Rec	1	3/31/2021 11:48:49 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/31/2021 11:48:49 PM
Toluene	ND	0.049		mg/Kg	1	3/31/2021 11:48:49 PM
Ethylbenzene	ND	0.049		mg/Kg	1	3/31/2021 11:48:49 PM
Xylenes, Total	ND	0.098		mg/Kg	1	3/31/2021 11:48:49 PM
Surr: 4-Bromofluorobenzene	99.0	70-130		%Rec	1	3/31/2021 11:48:49 PM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	ND	60		mg/Kg	20	4/1/2021 2:22:02 AM

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

Qualifiers:

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

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

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Analytical Report Lab Order 2103B84

Date Reported: 4/5/2021

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: WS21-10 0-0.5

 Project:
 Dinero St 005
 Collection Date: 3/23/2021 12:10:00 PM

 Lab ID:
 2103B84-036
 Matrix: SOIL
 Received Date: 3/25/2021 7:30:00 AM

Analyses	Result	RL Ç	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst: mb
Diesel Range Organics (DRO)	10	9.8		mg/Kg	1	3/27/2021 7:55:39 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/27/2021 7:55:39 PM
Surr: DNOP	49.4	70-130	S	%Rec	1	3/27/2021 7:55:39 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/1/2021 12:12:23 AM
Surr: BFB	98.5	70-130		%Rec	1	4/1/2021 12:12:23 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	4/1/2021 12:12:23 AM
Toluene	ND	0.049		mg/Kg	1	4/1/2021 12:12:23 AM
Ethylbenzene	ND	0.049		mg/Kg	1	4/1/2021 12:12:23 AM
Xylenes, Total	ND	0.098		mg/Kg	1	4/1/2021 12:12:23 AM
Surr: 4-Bromofluorobenzene	99.3	70-130		%Rec	1	4/1/2021 12:12:23 AM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	ND	60		mg/Kg	20	4/1/2021 2:34:26 AM

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

Qualifiers:

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

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

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Date Reported: 4/5/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd. Client Sample ID: WS21-11 0-0.5

 Project:
 Dinero St 005
 Collection Date: 3/23/2021 12:15:00 PM

 Lab ID:
 2103B84-037
 Matrix: SOIL
 Received Date: 3/25/2021 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE C	RGANICS				Analyst: mb
Diesel Range Organics (DRO)	57	10	mg/Kg	1	3/27/2021 8:07:46 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	3/27/2021 8:07:46 PM
Surr: DNOP	71.4	70-130	%Rec	1	3/27/2021 8:07:46 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	4/1/2021 12:35:56 AM
Surr: BFB	97.8	70-130	%Rec	1	4/1/2021 12:35:56 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	4/1/2021 12:35:56 AM
Toluene	ND	0.048	mg/Kg	1	4/1/2021 12:35:56 AM
Ethylbenzene	ND	0.048	mg/Kg	1	4/1/2021 12:35:56 AM
Xylenes, Total	ND	0.096	mg/Kg	1	4/1/2021 12:35:56 AM
Surr: 4-Bromofluorobenzene	98.2	70-130	%Rec	1	4/1/2021 12:35:56 AM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	64	61	mg/Kg	20	4/1/2021 2:46:51 AM

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

Qualifiers:

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

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

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CLIENT: Vertex Resource Group Ltd.

Analytical ReportLab Order **2103B84**

Date Reported: 4/5/2021

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: WS21-12 0-0.5

 Project:
 Dinero St 005
 Collection Date: 3/23/2021 12:20:00 PM

 Lab ID:
 2103B84-038
 Matrix: SOIL
 Received Date: 3/25/2021 7:30:00 AM

Analyses	Result	RL ·	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS					Analyst: mb
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/27/2021 8:19:54 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/27/2021 8:19:54 PM
Surr: DNOP	44.7	70-130	S	%Rec	1	3/27/2021 8:19:54 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/1/2021 12:59:30 AM
Surr: BFB	98.1	70-130		%Rec	1	4/1/2021 12:59:30 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	4/1/2021 12:59:30 AM
Toluene	ND	0.047		mg/Kg	1	4/1/2021 12:59:30 AM
Ethylbenzene	ND	0.047		mg/Kg	1	4/1/2021 12:59:30 AM
Xylenes, Total	ND	0.094		mg/Kg	1	4/1/2021 12:59:30 AM
Surr: 4-Bromofluorobenzene	97.2	70-130		%Rec	1	4/1/2021 12:59:30 AM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	ND	61		mg/Kg	20	4/1/2021 2:59:16 AM

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

Qualifiers:

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

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

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Date Reported: 4/5/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd. Client Sample ID: WS21-13 0-2.5

 Project:
 Dinero St 005
 Collection Date: 3/23/2021 12:25:00 PM

 Lab ID:
 2103B84-039
 Matrix: SOIL
 Received Date: 3/25/2021 7:30:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: mb
Diesel Range Organics (DRO)	16	9.4		mg/Kg	1	3/27/2021 8:31:57 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/27/2021 8:31:57 PM
Surr: DNOP	55.9	70-130	S	%Rec	1	3/27/2021 8:31:57 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/1/2021 1:23:03 AM
Surr: BFB	98.3	70-130		%Rec	1	4/1/2021 1:23:03 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	4/1/2021 1:23:03 AM
Toluene	ND	0.048		mg/Kg	1	4/1/2021 1:23:03 AM
Ethylbenzene	ND	0.048		mg/Kg	1	4/1/2021 1:23:03 AM
Xylenes, Total	ND	0.097		mg/Kg	1	4/1/2021 1:23:03 AM
Surr: 4-Bromofluorobenzene	98.3	70-130		%Rec	1	4/1/2021 1:23:03 AM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	ND	60		mg/Kg	20	4/1/2021 3:11:41 AM

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

Qualifiers:

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

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

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Date Reported: 4/5/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd. Client Sample ID: WS21-14 0-2.5

 Project:
 Dinero St 005
 Collection Date: 3/23/2021 12:30:00 PM

 Lab ID:
 2103B84-040
 Matrix: SOIL
 Received Date: 3/25/2021 7:30:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst: mb
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	3/27/2021 8:43:58 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/27/2021 8:43:58 PM
Surr: DNOP	36.0	70-130	S	%Rec	1	3/27/2021 8:43:58 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/1/2021 1:46:33 AM
Surr: BFB	101	70-130		%Rec	1	4/1/2021 1:46:33 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	4/1/2021 1:46:33 AM
Toluene	ND	0.049		mg/Kg	1	4/1/2021 1:46:33 AM
Ethylbenzene	ND	0.049		mg/Kg	1	4/1/2021 1:46:33 AM
Xylenes, Total	ND	0.098		mg/Kg	1	4/1/2021 1:46:33 AM
Surr: 4-Bromofluorobenzene	99.6	70-130		%Rec	1	4/1/2021 1:46:33 AM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	ND	59		mg/Kg	20	4/1/2021 3:24:05 AM

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

Qualifiers:

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

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

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CLIENT: Vertex Resource Group Ltd.

Analytical ReportLab Order **2103B84**

Date Reported: 4/5/2021

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: WS21-15 0-2.5

 Project:
 Dinero St 005
 Collection Date: 3/23/2021 12:35:00 PM

 Lab ID:
 2103B84-041
 Matrix: SOIL
 Received Date: 3/25/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst: mb
Diesel Range Organics (DRO)	13	9.1		mg/Kg	1	3/27/2021 8:56:08 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	3/27/2021 8:56:08 PM
Surr: DNOP	29.4	70-130	S	%Rec	1	3/27/2021 8:56:08 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/1/2021 2:10:10 AM
Surr: BFB	98.6	70-130		%Rec	1	4/1/2021 2:10:10 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	4/1/2021 2:10:10 AM
Toluene	ND	0.048		mg/Kg	1	4/1/2021 2:10:10 AM
Ethylbenzene	ND	0.048		mg/Kg	1	4/1/2021 2:10:10 AM
Xylenes, Total	ND	0.096		mg/Kg	1	4/1/2021 2:10:10 AM
Surr: 4-Bromofluorobenzene	99.9	70-130		%Rec	1	4/1/2021 2:10:10 AM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	ND	60		mg/Kg	20	4/1/2021 10:58:01 AM

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

Qualifiers:

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

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

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CLIENT: Vertex Resource Group Ltd.

Analytical Report Lab Order 2103B84

Date Reported: 4/5/2021

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: WS21-16 0-2.5

 Project:
 Dinero St 005
 Collection Date: 3/23/2021 12:40:00 PM

 Lab ID:
 2103B84-042
 Matrix: SOIL
 Received Date: 3/25/2021 7:30:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst: mb
Diesel Range Organics (DRO)	35	9.4		mg/Kg	1	3/27/2021 9:08:05 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/27/2021 9:08:05 PM
Surr: DNOP	39.2	70-130	S	%Rec	1	3/27/2021 9:08:05 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/1/2021 2:33:41 AM
Surr: BFB	99.9	70-130		%Rec	1	4/1/2021 2:33:41 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	4/1/2021 2:33:41 AM
Toluene	ND	0.047		mg/Kg	1	4/1/2021 2:33:41 AM
Ethylbenzene	ND	0.047		mg/Kg	1	4/1/2021 2:33:41 AM
Xylenes, Total	ND	0.094		mg/Kg	1	4/1/2021 2:33:41 AM
Surr: 4-Bromofluorobenzene	99.7	70-130		%Rec	1	4/1/2021 2:33:41 AM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	ND	59		mg/Kg	20	4/1/2021 11:10:26 AM

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

Qualifiers:

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

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

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Date Reported: 4/5/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd. Client Sample ID: WS21-17 0-2.5

 Project:
 Dinero St 005
 Collection Date: 3/23/2021 12:45:00 PM

 Lab ID:
 2103B84-043
 Matrix: SOIL
 Received Date: 3/25/2021 7:30:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: mb
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	3/28/2021 1:25:20 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/28/2021 1:25:20 AM
Surr: DNOP	60.8	70-130	S	%Rec	1	3/28/2021 1:25:20 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/31/2021 1:17:00 PM
Surr: BFB	90.0	70-130		%Rec	1	3/31/2021 1:17:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	3/31/2021 1:17:00 PM
Toluene	ND	0.050		mg/Kg	1	3/31/2021 1:17:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	3/31/2021 1:17:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	3/31/2021 1:17:00 PM
Surr: 4-Bromofluorobenzene	85.7	70-130		%Rec	1	3/31/2021 1:17:00 PM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	98	59		mg/Kg	20	4/1/2021 2:50:29 AM

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

Qualifiers:

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

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

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CLIENT: Vertex Resource Group Ltd.

Analytical Report Lab Order 2103B84

Date Reported: 4/5/2021

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: WS21-18 0-2.5

 Project:
 Dinero St 005
 Collection Date: 3/23/2021 12:50:00 PM

 Lab ID:
 2103B84-044
 Matrix: SOIL
 Received Date: 3/25/2021 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	Analyst: mb				
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	3/28/2021 2:11:11 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	3/28/2021 2:11:11 AM
Surr: DNOP	99.0	70-130	%Rec	1	3/28/2021 2:11:11 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	3/31/2021 2:23:00 PM
Surr: BFB	94.3	70-130	%Rec	1	3/31/2021 2:23:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	3/31/2021 2:23:00 PM
Toluene	ND	0.050	mg/Kg	1	3/31/2021 2:23:00 PM
Ethylbenzene	ND	0.050	mg/Kg	1	3/31/2021 2:23:00 PM
Xylenes, Total	ND	0.099	mg/Kg	1	3/31/2021 2:23:00 PM
Surr: 4-Bromofluorobenzene	87.9	70-130	%Rec	1	3/31/2021 2:23:00 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	910	60	mg/Kg	20	4/1/2021 3:27:42 AM

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

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory, Inc.

Date Reported: 4/5/2021

CLIENT: Vertex Resource Group Ltd. Client Sample ID: WS21-19 0-2.5

 Project:
 Dinero St 005
 Collection Date: 3/23/2021 12:55:00 PM

 Lab ID:
 2103B84-045
 Matrix: SOIL
 Received Date: 3/25/2021 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analyst: mb
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	3/28/2021 2:22:33 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	3/28/2021 2:22:33 AM
Surr: DNOP	72.2	70-130	%Rec	1	3/28/2021 2:22:33 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	3/31/2021 3:22:00 PM
Surr: BFB	93.9	70-130	%Rec	1	3/31/2021 3:22:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	3/31/2021 3:22:00 PM
Toluene	ND	0.050	mg/Kg	1	3/31/2021 3:22:00 PM
Ethylbenzene	ND	0.050	mg/Kg	1	3/31/2021 3:22:00 PM
Xylenes, Total	ND	0.10	mg/Kg	1	3/31/2021 3:22:00 PM
Surr: 4-Bromofluorobenzene	87.3	70-130	%Rec	1	3/31/2021 3:22:00 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	590	59	mg/Kg	20	4/1/2021 3:40:06 AM

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

Qualifiers:

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

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

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Date Reported: 4/5/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd. Client Sample ID: WS21-22 0-2.5

 Project:
 Dinero St 005
 Collection Date: 3/23/2021 1:00:00 PM

 Lab ID:
 2103B84-046
 Matrix: SOIL
 Received Date: 3/25/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: mb
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	3/28/2021 2:33:53 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/28/2021 2:33:53 AM
Surr: DNOP	45.4	70-130	S	%Rec	1	3/28/2021 2:33:53 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/31/2021 3:42:00 PM
Surr: BFB	93.1	70-130		%Rec	1	3/31/2021 3:42:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	3/31/2021 3:42:00 PM
Toluene	ND	0.048		mg/Kg	1	3/31/2021 3:42:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	3/31/2021 3:42:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	3/31/2021 3:42:00 PM
Surr: 4-Bromofluorobenzene	86.4	70-130		%Rec	1	3/31/2021 3:42:00 PM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	570	60		mg/Kg	20	4/1/2021 3:52:30 AM

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

Qualifiers:

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

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

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Date Reported: 4/5/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd. Client Sample ID: WS21-25 0-2.5

 Project:
 Dinero St 005
 Collection Date: 3/23/2021 1:05:00 PM

 Lab ID:
 2103B84-047
 Matrix: SOIL
 Received Date: 3/25/2021 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	Analyst: mb				
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	3/28/2021 2:45:23 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	3/28/2021 2:45:23 AM
Surr: DNOP	81.0	70-130	%Rec	1	3/28/2021 2:45:23 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	3/31/2021 4:02:00 PM
Surr: BFB	90.3	70-130	%Rec	1	3/31/2021 4:02:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	3/31/2021 4:02:00 PM
Toluene	ND	0.050	mg/Kg	1	3/31/2021 4:02:00 PM
Ethylbenzene	ND	0.050	mg/Kg	1	3/31/2021 4:02:00 PM
Xylenes, Total	ND	0.10	mg/Kg	1	3/31/2021 4:02:00 PM
Surr: 4-Bromofluorobenzene	85.6	70-130	%Rec	1	3/31/2021 4:02:00 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	ND	60	mg/Kg	20	4/1/2021 4:04:55 AM

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

Qualifiers:

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

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

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Date Reported: 4/5/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd. Client Sample ID: WS21-26 0-2.5

 Project:
 Dinero St 005
 Collection Date: 3/23/2021 1:10:00 PM

 Lab ID:
 2103B84-048
 Matrix: SOIL
 Received Date: 3/25/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: mb
Diesel Range Organics (DRO)	13	9.4		mg/Kg	1	3/28/2021 2:56:47 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/28/2021 2:56:47 AM
Surr: DNOP	57.1	70-130	S	%Rec	1	3/28/2021 2:56:47 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	0.049		mg/Kg	1	3/31/2021 4:21:00 PM
Surr: BFB	94.8	70-130		%Rec	1	3/31/2021 4:21:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.00025		mg/Kg	1	3/31/2021 4:21:00 PM
Toluene	ND	0.00049		mg/Kg	1	3/31/2021 4:21:00 PM
Ethylbenzene	ND	0.00049		mg/Kg	1	3/31/2021 4:21:00 PM
Xylenes, Total	ND	0.00099		mg/Kg	1	3/31/2021 4:21:00 PM
Surr: 4-Bromofluorobenzene	85.8	70-130		%Rec	1	3/31/2021 4:21:00 PM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	ND	60		mg/Kg	20	4/1/2021 4:17:20 AM

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

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory, Inc. Date Reported: 4/5/2021

CLIENT: Vertex Resource Group Ltd. Client Sample ID: WS21-27 0-2.5

 Project:
 Dinero St 005
 Collection Date: 3/23/2021 1:15:00 PM

 Lab ID:
 2103B84-049
 Matrix: SOIL
 Received Date: 3/25/2021 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	Analyst: mb				
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	3/28/2021 3:08:07 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	3/28/2021 3:08:07 AM
Surr: DNOP	92.1	70-130	%Rec	1	3/28/2021 3:08:07 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/31/2021 4:41:00 PM
Surr: BFB	96.5	70-130	%Rec	1	3/31/2021 4:41:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	3/31/2021 4:41:00 PM
Toluene	ND	0.049	mg/Kg	1	3/31/2021 4:41:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	3/31/2021 4:41:00 PM
Xylenes, Total	ND	0.098	mg/Kg	1	3/31/2021 4:41:00 PM
Surr: 4-Bromofluorobenzene	89.5	70-130	%Rec	1	3/31/2021 4:41:00 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	130	60	mg/Kg	20	4/1/2021 4:29:45 AM

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

Qualifiers:

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

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

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CLIENT: Vertex Resource Group Ltd.

Analytical Report Lab Order 2103B84

Date Reported: 4/5/2021

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: WS21-28 0-2.5

 Project:
 Dinero St 005
 Collection Date: 3/23/2021 1:20:00 PM

 Lab ID:
 2103B84-050
 Matrix: SOIL
 Received Date: 3/25/2021 7:30:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst: mb
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/28/2021 3:19:32 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/28/2021 3:19:32 AM
Surr: DNOP	68.8	70-130	S	%Rec	1	3/28/2021 3:19:32 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/31/2021 5:01:00 PM
Surr: BFB	94.2	70-130		%Rec	1	3/31/2021 5:01:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	3/31/2021 5:01:00 PM
Toluene	ND	0.048		mg/Kg	1	3/31/2021 5:01:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	3/31/2021 5:01:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	3/31/2021 5:01:00 PM
Surr: 4-Bromofluorobenzene	86.8	70-130		%Rec	1	3/31/2021 5:01:00 PM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	97	59		mg/Kg	20	4/1/2021 4:42:10 AM

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

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2103B84** *05-Apr-21*

Client: Vertex Resource Group Ltd.

Project: Dinero St 005

Sample ID: MB-59108 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 59108 RunNo: 76363

Prep Date: 3/31/2021 Analysis Date: 3/31/2021 SeqNo: 2703972 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-59108 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 59108 RunNo: 76363

Prep Date: 3/31/2021 Analysis Date: 3/31/2021 SeqNo: 2703973 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 96.1 90 110

Sample ID: MB-59111 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 59111 RunNo: 76363

Prep Date: 3/31/2021 Analysis Date: 3/31/2021 SeqNo: 2704003 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-59111 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 59111 RunNo: 76363

Prep Date: 3/31/2021 Analysis Date: 3/31/2021 SeqNo: 2704004 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 95.0 90 110

Sample ID: MB-59097 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: **59097** RunNo: **76343**

Prep Date: 3/31/2021 Analysis Date: 3/31/2021 SeqNo: 2704550 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-59097 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 59097 RunNo: 76343

Prep Date: 3/31/2021 Analysis Date: 3/31/2021 SeqNo: 2704551 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 95.0 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 Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2103B84**

05-Apr-21

Client: Vertex Resource Group Ltd.

Project: Dinero St 005

Sample ID: MB-59114 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 59114 RunNo: 76343

Prep Date: 3/31/2021 Analysis Date: 4/1/2021 SeqNo: 2704582 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-59114 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 59114 RunNo: 76343

Prep Date: 3/31/2021 Analysis Date: 4/1/2021 SeqNo: 2704583 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 96.6 90 110

Sample ID: MB-59114 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: **59114** RunNo: **76378**

Prep Date: 3/31/2021 Analysis Date: 4/1/2021 SeqNo: 2705326 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-59114 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 59114 RunNo: 76378

Prep Date: 3/31/2021 Analysis Date: 4/1/2021 SeqNo: 2705327 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 96.1 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 Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

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Hall Environmental Analysis Laboratory, Inc.

Batch ID: 58990

Analysis Date: 3/27/2021

PQL

10

50

10.00

Result

ND

ND

12

WO#: **2103B84**

05-Apr-21

Client: Vertex Resource Group Ltd.

Project: Dinero St 005

Sample ID: MB-58966	SampTy	vpe: MI	BLK	Tes	tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: PBS		ID: 58			RunNo: 7				.	
Prep Date: 3/25/2021	Analysis Da	ate: 3 /	/26/2021	S	SeqNo: 2	699262	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10					-			
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		111	70	130			
Sample ID: LCS-58966	SampTy	ype: LC	s	Tes	tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: LCSS	Batch	ID: 58	966	F	RunNo: 7	6239				
Prep Date: 3/25/2021	Analysis Da	ate: 3/	/26/2021	S	SeqNo: 2	699264	Units: mg/k	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	55	10	50.00	0	109	68.9	141			
Surr: DNOP	5.4		5.000		107	70	130			
Sample ID: 2103B84-001AMS	SampTy	ype: M \$	S	Tes	tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: BS21-04 2.5'	Batch	ID: 58	966	F	RunNo: 7	6239				
Prep Date: 3/25/2021	Analysis Da	ate: 3/	/26/2021	\$	SeqNo: 2	699266	Units: mg/h	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	62	9.8	49.12	10.36	105	15	184			
Surr: DNOP	4.6		4.912		93.3	70	130			
Sample ID: 2103B84-001AMS	SD SampTy	ype: M \$	SD	Tes	tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: BS21-04 2.5'	Batch	ID: 58	966	F	RunNo: 7	6239				
Prep Date: 3/25/2021	Analysis Da	ate: 3/	/26/2021	S	SeqNo: 2	699267	Units: mg/h	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	59	9.7	48.45	10.36	101	15	184	5.10	23.9	
Surr: DNOP	4.3		4.845		89.0	70	130	0	0	
Sample ID: MB-58990	SampTy	vpe: MI	BLK	Tes	tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics	
Jampio ID. III - 30000	Jampi	, PO. 1411	:\	163			33 13 NI/D. DI	Joer Marig	J. garrios	

Qualifiers:

Surr: DNOP

Client ID: PBS

Prep Date: 3/26/2021

Diesel Range Organics (DRO)

Motor Oil Range Organics (MRO)

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

B Analyte detected in the associated Method Blank

RunNo: 76282

119

SeqNo: 2700844

Units: mg/Kg

130

%RPD

RPDLimit

Qual

HighLimit

70

- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range

SPK value SPK Ref Val %REC LowLimit

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: 2103B84 05-Apr-21

Client: Vertex Resource Group Ltd.

Dinero St 005 **Project:**

Project: Dinero	St 005								
Sample ID: MB-58991	SampType: MBLK	(Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	e Organics	
Client ID: PBS	Batch ID: 58991		R	tunNo: 76	5282				
Prep Date: 3/26/2021	Analysis Date: 3/27/	2021	S	SeqNo: 27	700845	Units: mg/K	g		
Analyte	Result PQL SI	PK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND 10								
Motor Oil Range Organics (MRO)	ND 50								
Surr: DNOP	10	10.00		104	70	130			
Sample ID: MB-58998	SampType: MBLK	(Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	e Organics	
Client ID: PBS	Batch ID: 58998	}	R	tunNo: 76	5282				
Prep Date: 3/26/2021	Analysis Date: 3/28/	2021	S	SeqNo: 27	700847	Units: mg/K	g		
Analyte	Result PQL SI	PK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND 10								
Motor Oil Range Organics (MRO)	ND 50								
Surr: DNOP	6.2	10.00		61.9	70	130			S
Sample ID: LCS-58998	SampType: LCS		Tes	tCode: EF	PA Method	8015M/D: Die	sel Rang	e Organics	
Client ID: LCSS	Batch ID: 58998	}	R	tunNo: 76	6282				
Prep Date: 3/26/2021	Analysis Date: 3/28/	2021	S	SeqNo: 27	700850	Units: mg/K	g		
Analyte	Result PQL SI	PK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44 10	50.00	0	88.4	68.9	141			
Surr: DNOP	2.5	5.000		50.8	70	130			S
Sample ID: LCS-58991	SampType: LCS		Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	e Organics	
Client ID: LCSS	Batch ID: 58991		R	unNo: 76	5282				
Prep Date: 3/26/2021	Analysis Date: 3/27/	2021	S	SeqNo: 27	700852	Units: mg/K	g		
Analyte	Result PQL SI	PK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45 10	50.00	0	89.4	68.9	141			
Surr: DNOP	4.9	5.000		98.9	70	130			
Sample ID: LCS-58990	SampType: LCS		Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	e Organics	
Client ID: LCSS	Batch ID: 58990)	R	tunNo: 76	6282				
Prep Date: 3/26/2021	Analysis Date: 3/27/	2021	S	SeqNo: 27	700853	Units: mg/K	g		
Analyte	Result PQL SI	PK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46 10	50.00	0	92.8	68.9	141			

Qualifiers:

Surr: DNOP

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded

5.0

5.000

- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

100

70

130

- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: 2103B84

05-Apr-21

Client: Vertex Resource Group Ltd.

Project: Dinero St 005

Sample ID: 2103B84-023AMS SampType: MS TestCode: EPA Method 8015M/D: Diesel Range Organics BS21-36 2.5' Client ID: Batch ID: 58991 RunNo: 76282 Prep Date: 3/26/2021 Analysis Date: 3/27/2021 SeqNo: 2700855 Units: mg/Kg SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result PQL LowLimit HighLimit Qual Diesel Range Organics (DRO) 6.456 48 9.5 47.26 88.8 15 184 Surr: DNOP 3.6 4.726 70 130

Sample ID: 2103B84-043AMS SampType: MS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: WS21-17 0-2.5 Batch ID: 58998 RunNo: 76282

3.3

Prep Date: 3/26/2021 Analysis Date: 3/28/2021 SeqNo: 2700857 Units: mg/Kg

4.744

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 47 9.5 47.30 O 99.4 15 184 Surr: DNOP 70 S 3.0 4.730 62.8 130

Sample ID: 2103B84-043AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: WS21-17 0-2.5 Batch ID: 58998 RunNo: 76282 Prep Date: 3/26/2021 Analysis Date: 3/28/2021 SeqNo: 2700858 Units: mg/Kg %RPD Result PQL SPK value SPK Ref Val %REC HighLimit **RPDLimit** Analyte LowLimit Qual Diesel Range Organics (DRO) 53 9.5 47.44 0 111 15 184 11.0 23.9

70.4

70

130

0

TestCode: EPA Method 8015M/D: Diesel Range Organics Sample ID: 2103B84-023AMSD SampType: MSD Client ID: BS21-36 2.5' Batch ID: 58991 RunNo: 76282 Prep Date: 3/26/2021 Analysis Date: 3/27/2021 SeqNo: 2700860 Units: mg/Kg

SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Result PQL LowLimit Qual Diesel Range Organics (DRO) 46 9.5 47.66 6.456 83.1 15 5.01 184 23.9 Surr: DNOP 3.1 4.766 65.6 70 130 0 0 S

Qualifiers:

Surr: DNOP

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded Н

Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Limit Page 55 of 62

0

Hall Environmental Analysis Laboratory, Inc.

WO#: 2103B84

05-Apr-21

Client: Vertex Resource Group Ltd.

Project: Dinero St 005

Sample ID: mb-59012 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 59012 RunNo: 76294

Prep Date: Analysis Date: 3/29/2021 SeqNo: 2701262 3/26/2021 Units: %Rec

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result LowLimit HighLimit Qual

Surr: BFB 1000 1000 100 75.3 105

Sample ID: Ics-59012 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 59012 RunNo: 76294

Prep Date: 3/26/2021 Analysis Date: 3/29/2021 SeqNo: 2701263 Units: %Rec

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result PQL LowLimit HighLimit Qual

Surr: BFB 1100 1000 109 75.3 105 S

Sample ID: mb-58976 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range Client ID: PBS Batch ID: 58976 RunNo: 76294

Prep Date: 3/25/2021 Analysis Date: 3/30/2021 SeqNo: 2701290 Units: mq/Kq

Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Analyte Qual Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 1000 1000 100 105 75.3

Sample ID: Ics-58976 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: 58976 RunNo: 76294 Prep Date: 3/25/2021 Analysis Date: 3/29/2021 SeqNo: 2701291 Units: mg/Kg PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result LowLimit Qual

Gasoline Range Organics (GRO) 24 5.0 25.00 97.6 80 120 Surr: BFB 1100 1000 110 75.3 105 S

Sample ID: Ics-58964 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: 58964 RunNo: 76303 Prep Date: 3/25/2021 Analysis Date: 3/29/2021 SeqNo: 2701843 Units: mg/Kg PQL SPK Ref Val %REC HighLimit %RPD **RPDLimit** Result SPK value LowLimit Qual

Gasoline Range Organics (GRO) 5.0 n 80 26 25.00 103 120 Surr: BFB 960 1000 95.6 75.3 105

Sample ID: mb-58964 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 58964 RunNo: 76303

Prep Date: 3/25/2021 Analysis Date: 3/29/2021 SeqNo: 2701844 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 830 1000 83.4 105 75.3

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2103B84**

05-Apr-21

Client: Vertex Resource Group Ltd.

Project: Dinero St 005

Sample ID: 2103b84-001ams	SampType: MS TestCode: EPA Method 8015D: Gasoline Range									
Client ID: BS21-04 2.5'	Batch	ID: 58	964	F	RunNo: 7	6303				
Prep Date: 3/25/2021	Analysis D	ate: 3/	29/2021	9	SeqNo: 2	701846	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.8	23.95	0	101	61.3	114			
Surr: BFB	920		957.9		96.2	75.3	105			
Sample ID: 2103b84-001ams	d SampT	уре: М\$	SD	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: BS21-04 2.5'	Batch	ID: 58	964	F	RunNo: 7	6303				
Prep Date: 3/25/2021	Analysis D	ate: 3/	29/2021	9	SeqNo: 2	701847	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	4.9	24.49	0	103	61.3	114	3.96	20	
Surr: BFB	990		979.4		101	75.3	105	0	0	
Sample ID: mb-58977	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: PBS	Batch	ID: 58	977	F	RunNo: 7	6338				
Prep Date: 3/25/2021	Analysis D	ate: 3/	31/2021	5	SeqNo: 2	703813	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	990		1000		98.8	70	130			

Sample ID: Ics-58977	SampT	ype: LC	S	Tes	TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch	n ID: 589	977	R	tunNo: 7	6338					
Prep Date: 3/25/2021	Analysis D	oate: 3/	31/2021	S	SeqNo: 2	703814	Units: mg/K	(g			
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	78.6	131				
Surr: BFB	1100		1000		112	70	130				

Sample ID: 2103b84-023ams	SampT	ype: MS	3	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	е	
Client ID: BS21-36 2.5'	Batch	ID: 58 9	977	R	RunNo: 70	6338				
Prep Date: 3/25/2021	Analysis D	ate: 3/	31/2021	SeqNo: 2703816 Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	24.83	0	97.8	61.3	114			
Surr: BFB	1100		993.0		108	70	130			

Sample ID: 2103b84-023amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: **BS21-36 2.5'** Batch ID: **58977** RunNo: **76338**

Prep Date: 3/25/2021 Analysis Date: 3/31/2021 SeqNo: 2703817 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 range due to dilution or matrix

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2103B84**

05-Apr-21

Client: Vertex Resource Group Ltd.

Project: Dinero St 005

Sample ID: 2103b84-023amsd	SampType: MSD TestCode: EPA Method 8015D: Gasoline Range									
Client ID: BS21-36 2.5'	Batch	ID: 58 9	977	F	RunNo: 7	6338				
Prep Date: 3/25/2021	Analysis D	ate: 3/	31/2021	S	SeqNo: 2	703817	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.9	24.44	0	96.7	61.3	114	2.77	20	
Surr: BFB	1000		977.5		107	70	130	0	0	
Sample ID: LCS-58981	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: LCSS	Batch	ID: 58 9	981	F	RunNo: 7	6370				

Client ID: LCSS	Batch	ID: 58 9	981	F	RunNo: 7 0	6370				
Prep Date: 3/25/2021	Analysis D	ate: 3/	31/2021	S	SeqNo: 2	704693	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	103	78.6	131			
Surr: BFB	1100		1000		109	70	130			

Sample ID: MB-58981	SampT	ype: ME	BLK	Tes	TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS	Batcl	n ID: 58 9	981	R	RunNo: 7	6370				
Prep Date: 3/25/2021	Analysis D	Date: 3/	31/2021	S	SeqNo: 2	704694	Units: mg/K	(g		
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	70	130			

Sample ID: 2103B84-043am	s SampT	уре: м	3	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	е	
Client ID: WS21-17 0-2.5	Batcl	n ID: 58	981	F	RunNo: 7	6370				
Prep Date: 3/25/2021	Analysis D	Date: 3/	31/2021	SeqNo: 2704696 Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.9	24.63	0	95.3	61.3	114			
Surr: BFB	1000		985.2		103	70	130			

Sample ID: 2103B84-043ams	d SampT	ype: MS	SD	Tes	tCode: El	PA Method	8015D: Gaso	line Range	е	
Client ID: WS21-17 0-2.5	Batch	ID: 58 9	981	F	RunNo: 70	6370				
Prep Date: 3/25/2021	Analysis D	ate: 3/	31/2021	S	SeqNo: 2	704697	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	4.9	24.51	0	105	61.3	114	9.03	20	
Surr: BFB	1100		980.4		109	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 Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

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Hall Environmental Analysis Laboratory, Inc.

1.0

0.98

ND

0.10

WO#: **2103B84**

05-Apr-21

Client: Vertex Resource Group Ltd.

Project: Dinero St 005

Surr: 4-Bromofluorobenzene

Surr: 4-Bromofluorobenzene

Sample ID: mb-59012 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: 59012 RunNo: 76294

Prep Date: 3/26/2021 Analysis Date: 3/29/2021 SeqNo: 2701308 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

99.8

98.3

80

80

120

120

Sample ID: LCS-59012 SampType: LCS TestCode: EPA Method 8021B: Volatiles

1.000

Client ID: LCSS Batch ID: 59012 RunNo: 76294

Prep Date: 3/26/2021 Analysis Date: 3/29/2021 SeqNo: 2701309 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: 4-Bromofluorobenzene 1.0 1.000 99.9 80 120

1.000

Sample ID: mb-58976 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: PBS Batch ID: 58976 RunNo: 76294 Prep Date: 3/25/2021 Analysis Date: 3/30/2021 SeqNo: 2701325 Units: mg/Kg PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Result ND 0.025 Benzene ND 0.050 Toluene Ethylbenzene ND 0.050 Xylenes, Total ND 0.10

Sample ID: LCS-58976 SampType: LCS TestCode: EPA Method 8021B: Volatiles Client ID: LCSS Batch ID: 58976 RunNo: 76294 Prep Date: 3/25/2021 Analysis Date: 3/29/2021 SeqNo: 2701326 Units: mg/Kg Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Benzene 0.97 0.025 1.000 0 97.3 80 120 0.050 1.000 0 99.0 80 120 Toluene 0.99 0.97 0.050 0 97.5 80 Ethylbenzene 1.000 120 Xylenes, Total 2.9 0.10 0 97.4 80 3.000 120 Surr: 4-Bromofluorobenzene 1.0 1.000 100 80 120

Sample ID: mb-58964 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: 58964 RunNo: 76321

Prep Date: 3/25/2021 Analysis Date: 3/30/2021 SeqNo: 2702677 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Benzene ND 0.025 Toluene ND 0.050 Ethylbenzene ND 0.050

Qualifiers:

Xylenes, Total

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: 2103B84

05-Apr-21

Client: Vertex Resource Group Ltd.

Project: Dinero St 005

Sample ID: mb-58964 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: 58964 RunNo: 76321

Prep Date: 3/25/2021 Analysis Date: 3/30/2021 SeqNo: 2702677 Units: mq/Kq

SPK value SPK Ref Val %RPD **RPDLimit** Analyte Result %REC LowLimit HighLimit Qual

Surr: 4-Bromofluorobenzene 0.99 1.000 98.6 80 120

Sample ID: Ics-58964 SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: LCSS Batch ID: 58964 RunNo: 76321

Prep Date: 3/25/2021 Analysis Date: 3/30/2021 SeqNo: 2702678 Units: mg/Kg SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result PQL LowLimit HighLimit Qual Benzene 0.96 0.025 1.000 0 96.4 80 120 Toluene 0.98 0.050 1.000 0 98.2 80 120 0.96 0 80 Ethylbenzene 0.050 1.000 96.3 120 Xylenes, Total 2.9 0.10 3.000 0 96.6 80 120 103 80 120 Surr: 4-Bromofluorobenzene 1.0 1.000

Sample ID: 2103b84-002ams TestCode: EPA Method 8021B: Volatiles SampType: MS

BS21-05 2.5' Client ID: Batch ID: 58964 RunNo: 76321

Prep Date: 3/25/2021 Analysis Date: 3/30/2021 SeqNo: 2702681 Units: mg/Kg SPK value SPK Ref Val Result PQL %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte 0.87 0.024 0.9766 0 89.5 76.3 120 Renzene Toluene 0.90 0.049 0.9766 0 92.6 78.5 120 0 78.1 Ethylbenzene 0.90 0.049 0.9766 92.3 124 Xylenes, Total 2.7 0.098 2.930 0 92.2 79.3 125 Surr: 4-Bromofluorobenzene 0.99 0.9766 102 80 120

Sample ID: 2103b84-002amsd SampType: MSD TestCode: EPA Method 8021B: Volatiles

Client ID: BS21-05 2.5 Batch ID: 58964 RunNo: 76321

Prep Date: 3/25/2021	Analysis Date: 3/30/2021			8	SeqNo: 2	702682	Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.82	0.024	0.9443	0	87.0	76.3	120	6.20	20	
Toluene	0.86	0.047	0.9443	0	90.8	78.5	120	5.34	20	
Ethylbenzene	0.86	0.047	0.9443	0	90.9	78.1	124	4.92	20	
Xylenes, Total	2.6	0.094	2.833	0	90.3	79.3	125	5.40	20	
Surr: 4-Bromofluorobenzene	0.94		0.9443		99.1	80	120	0	0	

Sample ID: mb-58977 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: 58977 RunNo: 76338

Prep Date: 3/25/2021 Analysis Date: 3/31/2021 SeqNo: 2703855 Units: mg/Kg

PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result LowLimit Qual

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2103B84**

05-Apr-21

Client: Vertex Resource Group Ltd.

Project: Dinero St 005

Sample ID: mb-58977 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: PBS Batch ID: 58977 RunNo: 76338 Prep Date: 3/25/2021 Analysis Date: 3/31/2021 SeqNo: 2703855 Units: mq/Kq PQL SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte LowLimit HighLimit Qual Benzene ND 0.025 Toluene ND 0.050 0.050 Ethylbenzene ND Xylenes, Total ND 0.10

Surr: 4-Bromofluorobenzene 1.0 1.000 100 70 130

Sample ID: LCS-58977 SampType: LCS TestCode: EPA Method 8021B: Volatiles Client ID: LCSS Batch ID: 58977 RunNo: 76338 Analysis Date: 3/31/2021 SeqNo: 2703856 Prep Date: 3/25/2021 Units: mg/Kg PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 1.000 0.98 0.025 n 98.3 80 120 Benzene Toluene 0.99 0.050 1.000 0 98.8 80 120 0 96.5 80 0.96 0.050 1.000 120 Ethylbenzene 0 97.4 Xylenes, Total 2.9 0.10 3.000 80 120 Surr: 4-Bromofluorobenzene 1.0 1.000 100 70 130

Sample ID: 2103b84-024ams SampType: MS TestCode: EPA Method 8021B: Volatiles Client ID: BS21-37 2.5' Batch ID: 58977 RunNo: 76338 Prep Date: 3/25/2021 Analysis Date: 3/31/2021 SeqNo: 2703859 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 93.4 76.3 0.90 0.024 0.9681 120 Benzene O Toluene 0.91 0.048 0.9681 0 94.2 78.5 120 0 92.9 78.1 Ethylbenzene 0.90 0.048 0.9681 124 Xylenes, Total 2.7 0.097 2.904 n 91 9 79.3 125 Surr: 4-Bromofluorobenzene 0.9681 0.97 101 70 130

TestCode: EPA Method 8021B: Volatiles Sample ID: 2103b84-024amsd SampType: MSD Client ID: BS21-37 2.5' Batch ID: 58977 RunNo: 76338 Prep Date: 3/25/2021 Analysis Date: 3/31/2021 SeqNo: 2703860 Units: mg/Kg SPK value SPK Ref Val %REC **RPDLimit** Analyte Result PQL LowLimit HighLimit %RPD Qual 0.91 0.025 0.9881 0 92.2 76.3 120 0.750 20 Benzene Toluene 0.92 0.049 0.9881 0 92.6 78.5 120 0.416 20 Ethylbenzene 0.91 0.049 0.9881 0 92.3 78.1 124 1.41 20 Xylenes, Total 2.7 0.099 2.964 0 91.4 79.3 125 1.44 20 Surr: 4-Bromofluorobenzene 0.98 0.9881 99.6 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 Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2103B84**

05-Apr-21

Client: Vertex Resource Group Ltd.

Project: Dinero St 005

Sample ID: LCS-58981 Client ID: LCSS	·	ype: LC			tCode: El		8021B: Volat	iles		
Prep Date: 3/25/2021	Analysis D		31/2021		SeqNo: 2		Units: mg/K	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	96.1	80	120			
Toluene	0.97	0.050	1.000	0	96.6	80	120			
Ethylbenzene	0.97	0.050	1.000	0	96.8	80	120			
Xylenes, Total	2.9	0.10	3.000	0	95.3	80	120			
Surr: 4-Bromofluorobenzene	0.89		1.000		89.4	70	130			

Sample ID: MB-58981	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBS	Batch	n ID: 58	981	F	RunNo: 7	6370				
Prep Date: 3/25/2021	Analysis D	ate: 3/	31/2021	8	SeqNo: 2	704717	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.88		1.000		88.0	70	130			

Sample ID: 2103B84-044ams	Samp	Гуре: М\$	3	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: WS21-18 0-2.5	Batc	h ID: 58 9	981	F	RunNo: 7	6370				
Prep Date: 3/25/2021	Analysis [Date: 3/	31/2021	S	SeqNo: 2	704720	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.84	0.024	0.9643	0	86.6	76.3	120			
Toluene	0.85	0.048	0.9643	0	88.0	78.5	120			
Ethylbenzene	0.85	0.048	0.9643	0	88.4	78.1	124			
Xylenes, Total	2.5	0.096	2.893	0	87.3	79.3	125			
Surr: 4-Bromofluorobenzene	0.83		0.9643		85.7	70	130			

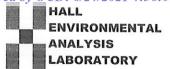
Sample ID: 2103B84-044ams	sd SampT	ype: MS	SD .	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: WS21-18 0-2.5	Batch	1D: 58 9	981	F	RunNo: 70	6370				
Prep Date: 3/25/2021	Analysis D	ate: 3/3	31/2021	S	SeqNo: 2	704721	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.83	0.024	0.9662	0	86.0	76.3	120	0.464	20	•
Toluene	0.85	0.048	0.9662	0	88.0	78.5	120	0.261	20	
Ethylbenzene	0.87	0.048	0.9662	0	89.8	78.1	124	1.73	20	
Xylenes, Total	2.6	0.097	2.899	0	88.0	79.3	125	0.993	20	
Surr: 4-Bromofluorobenzene	0.83		0.9662		85.7	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 Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

Page 62 of 62



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

Sample Log-In Check List

TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com Client Name: Vertex Resource Group Work Order Number: 2103B84 RcptNo: 1 Cheyenne Cason Received By: 3/25/2021 7:30:00 AM Completed By: Cheyenne Cason 3/25/2021 8:15:04 AM 3/25/21 Reviewed By: 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 🗌 Were all samples received at a temperature of >0° C to 6.0°C No Yes 🗸 NA 🗌 5. Sample(s) in proper container(s)? Yes 🗸 6. Sufficient sample volume for indicated test(s)? Yes 🗸 No 🗌 7. Are samples (except VOA and ONG) properly preserved? Yes 🗸 No \square No 🗸 8. Was preservative added to bottles? Yes 🗌 NA 🗌 9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes No 🗌 NA V 10. Were any sample containers received broken? Yes \square No 🗸 # of preserved bottles checked 11. Does paperwork match bottle labels? Yes 🗸 for pH: No 🗌 (Note discrepancies on chain of custody) or >12 unless noted) 12. Are matrices correctly identified on Chain of Custody? Yes 🗸 No 🗌

Yes 🗸

Yes 🗸

No 🗌

No 🗌

Special Handling (if applicable)

13. Is it clear what analyses were requested?

(If no, notify customer for authorization.)

14. Were all holding times able to be met?

15. Was client notified of all	discrepancies with this order?	Yes	No 🗌	NA 🗹
Person Notified:	Many payments and the second of the second o	Date:	THE RESIDENCE OF THE PROPERTY OF THE PARTY.	
By Whom:		Via: eMail	Phone Fax	In Person
Regarding:		and the Charles and a second state of the Seco	THE PERSON AND PROPERTY OF THE PERSON AND PARTY.	
Client Instructions:				ON A THE STATE OF

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.8	Good				

Received by OCD: 6/24/2021 4	36:09 PM		Page 243 of 271
HALL ENVIRONMENTANDENTAN	### MTBE / TMB's (8021) TPH:8015D(GRO / DRO / MRO) B081 Pesticides/8082 PCB's EDB (Method 504.1) PAHs by 8310 or 8270SIMS PCRA 8 Metals CL) F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄ B260 (VOA) B260 (VOA) Total Coliform (Present/Absent)		Time: Relinquished by: Received by: Via: 8/29/31 PLO Matching of this possibility. Any sub-contracted data will be clearly notated on the analytical report.
Turn-Around Time: Standard Rush Project Name: Dinco St #005 Project #:	Project Manager: Monica Peppin Sampler: My R/JR On Ice: My P/JR # of Coolers: 1 Cooler Temp(including cF): G. (9 - 0.1 - 6.8 (0.0)) Container Preservative HEAL No. Type and # Type	1 CC 033 CC3 038 CC3 038 CC3 034 CC3 0	Received by: Via: $3/25/2$ (0730)
Client: Vortex Mailing Address:	email or Fax#: QA/QC Package: Standard Accreditation:	9:00 50:1 BS21-04 2.5' 9:05 RS21-05 2.5' 9:10 RS21-05 2.5' 9:25 RS21-15 2.5' 9:25 RS21-15 2.5' 9:35 RS21-15 2.5' 9:35 RS21-15 2.5' 9:35 RS21-21 2.5' 9:50 RS21-21 2.5' 9:50 RS21-23 2.5' 9:50 RS21-23 2.5'	Date: Time: Relinquished by: Recommendation of the proposed proposed by: The processary, samples submitted to Hall Environmental may be subcontract.

Chain-of-Custody Record	Turn-Around Time:	7				VIDO	ENVIDONMENTAL	
Client: Nurtex	Standard □ Rush) =		ANALYSIS	LYSI	SLA	ABORATO	. >
	Project Name:	7		d www	www.hallenvironmental.com	ent		
Mailing Address:	Dinero St	# 002	4901 H	4901 Hawkins NE	- Albugi	uerque, l	Albuquerque, NM 87109	0/24
			Tel. 50	Tel. 505-345-3975		Fax 505-345-4107	5-4107	+/202
Phone #:	171E-00081	,		1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Anal	Analysis Request	st	14.
email or Fax#:	Project Manager:				[⊅] O [¢]	(tu	(111	30.0
QA/QC Package: □ Standard □ Level 4 (Full Validation)		nigga	AM\0	SWISC	PO⁴, S	əsdA\tr	2007/41	99 PM
on: Az Cor	Sampler: MC P 17 R		70 N		10 ⁵ '		1000	
□ NELAC □ Other	On Ice: 🖄 Yes	□ No	OΣ	10				
□ EDD (Type)	# of Coolers: ((GI	018	ON)∧-!		
l _o in	Cooler Temp(including cF): O.C	(d-0.1=6.8 (°C)	12D	58 y	1 '18	jwə;	Ollic	
Date Time Matrix Sample Name	Container Preservative Type and # Type	HEAL No.	(ХЭТ) 08:НЧТ 9Ч 1808	EDB (M PAHs b RCRA 8	CDE, E	8) 0728 Total C	0 1010 1	
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1 10:05 1 RS2H216 2:5		614	,				2 2	
S.B 72-188 01:01		015						
10115 RS21-28 2.5		210						
3.6 PC-1628 06:01		210						
2.6 05-1ESA Sc.01		810						
10:30 8521-31 0.5	1.	610						
10,35 8521-33 2.5		020						
10:40 BS21-34 0.5	,	021		2			100	
10:45 BS21-35 D.S		220						
10.50 1830-36 2.5		023						
2		620					7	
Date: Time: Relinquished by:	Received by: Via:	Time	Remarks: ($W:\mathcal{I}_{\mathcal{I}}$	DAD	0,10		1
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Date: / Relinquished by:	Received by: Via:	Date Time	-					244
124/81 1800 Gran	Cerman comm	3/25/2 0730	Marton	10				oj 2
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.	ibcontracted to other accredited laborate	ories. This serves as notice of this	oossibility. Any su	-contracted da	a will be clea	arly notated	on the analytical report.	/1

TAN ENVIRONMENTAL	ANALYSTS LABORATORY		a a	4901 Hawkins NE - Albuquerque, NM 87109		505 345 3075 Eav	Tel. 505-345-3975 Fax 505-345-4107	XD - 0.100 010 000	Analysis Request	[†] O9	S.B.	PC	1) (1)	08/8 04: 04: 04:	obi 10 10 stals	etho y 83 Me r, h (AO	181 Per 180° (M S) B (M S) B (M S) Pr (S) (S) (S) 181 Co	85 87 87 88 80)												rks: CC: Mpwoir		
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	HALL ENVII	www.hallenvironmental.com	4901 Hawkins NE - Albuquerqı	10	Analysis	[†] O:	SWIS	(1 072	. 404. 8 10 8 9 N.	ors ors stals over	etho y 83 y Me r, 1	Pe (M PAHs by RCRA 8 (S (S P, B (S (S) (S) (S) (S)	H H S												CC: N. P.	MMG 4/5/21	Todor
			± 000 1 490	Tel.		(1	.208) s			38. 		HEAL No.	3376	038	963 034	040 400	605 041	240 -300	607 043	668 044	804 CHS	Sto Oule	1 Cho +10	94 528	Date Time Remarks:	Time	3/25/21 G730 NO
Turn-Around Time:	Standard 🗆 Rush_	-	Vinera St	Project #:	· -	Project Manager:	Monde Peppin	STION NY	Yes	olers: (Cooler Temp(including CF): 6.4	Container Preservative	1) 20 1 CC				F 1							→	Received by: Via:	Received by: Via:	Cer Cour 3
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Chain-of-Custody Record						□ Level 4 (Full Validation)	☐ Az Compliance ☐ Other			Matrix Sample Name	1 S.C.O TG-162W 1:00 1	-3						Relinquished by:		Chum
Shair	5	Addres		#:	ır Fax#:	QA/QC Package: □ Standard	Accreditation:	□ EDD (Type)		Time	1:15	1:30	par lo					Time:	Time:	M
Client		Mailing Address:		Phone #:	email or Fax#:	QA/QC Packa □ Standard	Accreditati			Date	3/23	3/33						Date:	Date:	1929



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

April 20, 2021

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

FAX:

RE: Dinero State 005 OrderNo.: 2104599

Dear Monica Peppin:

Hall Environmental Analysis Laboratory received 5 sample(s) on 4/14/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 4/20/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd. Client Sample ID: BS21-11

 Project:
 Dinero State 005
 Collection Date: 4/12/2021 8:50:00 AM

 Lab ID:
 2104599-001
 Matrix:
 Received Date: 4/14/2021 7:32:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: VP
Chloride	210	60		mg/Kg	20	4/19/2021 12:08:16 PM	59476
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst	mb
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	4/16/2021 1:59:41 PM	59419
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/16/2021 1:59:41 PM	59419
Surr: DNOP	67.7	70-130	S	%Rec	1	4/16/2021 1:59:41 PM	59419
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/16/2021 4:47:57 AM	59408
Surr: BFB	102	70-130		%Rec	1	4/16/2021 4:47:57 AM	59408
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.024		mg/Kg	1	4/16/2021 4:47:57 AM	59408
Toluene	ND	0.048		mg/Kg	1	4/16/2021 4:47:57 AM	59408
Ethylbenzene	ND	0.048		mg/Kg	1	4/16/2021 4:47:57 AM	59408
Xylenes, Total	ND	0.097		mg/Kg	1	4/16/2021 4:47:57 AM	59408
Surr: 4-Bromofluorobenzene	98.0	70-130		%Rec	1	4/16/2021 4:47:57 AM	59408

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

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

Page 1 of 9

Date Reported: 4/20/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd. Client Sample ID: BS21-14

 Project:
 Dinero State 005
 Collection Date: 4/12/2021 8:55:00 AM

 Lab ID:
 2104599-002
 Matrix:
 Received Date: 4/14/2021 7:32:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	62	60	mg/Kg	20	4/19/2021 12:20:40 PM	59476
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst	: mb
Diesel Range Organics (DRO)	15	9.7	mg/Kg	1	4/16/2021 2:09:26 PM	59419
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	4/16/2021 2:09:26 PM	59419
Surr: DNOP	75.8	70-130	%Rec	1	4/16/2021 2:09:26 PM	59419
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/16/2021 9:09:23 AM	59408
Surr: BFB	101	70-130	%Rec	1	4/16/2021 9:09:23 AM	59408
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	4/16/2021 9:09:23 AM	59408
Toluene	ND	0.049	mg/Kg	1	4/16/2021 9:09:23 AM	59408
Ethylbenzene	ND	0.049	mg/Kg	1	4/16/2021 9:09:23 AM	59408
Xylenes, Total	ND	0.098	mg/Kg	1	4/16/2021 9:09:23 AM	59408
Surr: 4-Bromofluorobenzene	94.9	70-130	%Rec	1	4/16/2021 9:09:23 AM	59408

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

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

Page 2 of 9

Date Reported: 4/20/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd. Client Sample ID: BS21-20

 Project:
 Dinero State 005
 Collection Date: 4/12/2021 9:00:00 AM

 Lab ID:
 2104599-003
 Matrix:
 Received Date: 4/14/2021 7:32:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	80	60	mg/Kg	20	4/19/2021 12:33:04 PM	59476
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: mb
Diesel Range Organics (DRO)	14	8.9	mg/Kg	1	4/16/2021 2:19:22 PM	59419
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	4/16/2021 2:19:22 PM	59419
Surr: DNOP	70.4	70-130	%Rec	1	4/16/2021 2:19:22 PM	59419
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	4/16/2021 9:33:02 AM	59408
Surr: BFB	100	70-130	%Rec	1	4/16/2021 9:33:02 AM	59408
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	4/16/2021 9:33:02 AM	59408
Toluene	ND	0.048	mg/Kg	1	4/16/2021 9:33:02 AM	59408
Ethylbenzene	ND	0.048	mg/Kg	1	4/16/2021 9:33:02 AM	59408
Xylenes, Total	ND	0.095	mg/Kg	1	4/16/2021 9:33:02 AM	59408
Surr: 4-Bromofluorobenzene	95.7	70-130	%Rec	1	4/16/2021 9:33:02 AM	59408

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

Qualifiers:

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

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

Page 3 of 9

Date Reported: 4/20/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd. Client Sample ID: BS21-26

 Project:
 Dinero State 005
 Collection Date: 4/12/2021 9:05:00 AM

 Lab ID:
 2104599-004
 Matrix:
 Received Date: 4/14/2021 7:32:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: VP
Chloride	280	60		mg/Kg	20	4/19/2021 1:10:18 PM	59476
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst	: mb
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	4/16/2021 2:29:16 PM	59419
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/16/2021 2:29:16 PM	59419
Surr: DNOP	49.6	70-130	S	%Rec	1	4/16/2021 2:29:16 PM	59419
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/16/2021 12:42:28 PM	59408
Surr: BFB	101	70-130		%Rec	1	4/16/2021 12:42:28 PM	59408
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.024		mg/Kg	1	4/16/2021 12:42:28 PM	59408
Toluene	ND	0.049		mg/Kg	1	4/16/2021 12:42:28 PM	59408
Ethylbenzene	ND	0.049		mg/Kg	1	4/16/2021 12:42:28 PM	59408
Xylenes, Total	ND	0.098		mg/Kg	1	4/16/2021 12:42:28 PM	59408
Surr: 4-Bromofluorobenzene	96.5	70-130		%Rec	1	4/16/2021 12:42:28 PM	59408

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

Qualifiers:

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

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

Page 4 of 9

Analytical Report Lab Order 2104599

Date Reported: 4/20/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd. Client Sample ID: WS21-18

 Project:
 Dinero State 005
 Collection Date: 4/12/2021 9:15:00 AM

 Lab ID:
 2104599-005
 Matrix:
 Received Date: 4/14/2021 7:32:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: VP
Chloride	220	59		mg/Kg	20	4/19/2021 1:22:43 PM	59476
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS					Analyst	: mb
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	4/16/2021 2:39:09 PM	59419
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/16/2021 2:39:09 PM	59419
Surr: DNOP	50.4	70-130	S	%Rec	1	4/16/2021 2:39:09 PM	59419
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/16/2021 1:53:47 PM	59408
Surr: BFB	101	70-130		%Rec	1	4/16/2021 1:53:47 PM	59408
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.025		mg/Kg	1	4/16/2021 1:53:47 PM	59408
Toluene	ND	0.050		mg/Kg	1	4/16/2021 1:53:47 PM	59408
Ethylbenzene	ND	0.050		mg/Kg	1	4/16/2021 1:53:47 PM	59408
Xylenes, Total	ND	0.10		mg/Kg	1	4/16/2021 1:53:47 PM	59408
Surr: 4-Bromofluorobenzene	96.8	70-130		%Rec	1	4/16/2021 1:53:47 PM	59408

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

Qualifiers:

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

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

Page 5 of 9

Hall Environmental Analysis Laboratory, Inc.

WO#: **2104599 20-Apr-21**

Client: Vertex Resource Group Ltd.

Project: Dinero State 005

Sample ID: MB-59476 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 59476 RunNo: 76777

Prep Date: 4/19/2021 Analysis Date: 4/19/2021 SeqNo: 2721241 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-59476 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 59476 RunNo: 76777

Prep Date: 4/19/2021 Analysis Date: 4/19/2021 SeqNo: 2721242 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 92.4 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 Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 6 of 9

Hall Environmental Analysis Laboratory, Inc.

WO#: **2104599**

20-Apr-21

Client: Vertex Resource Group Ltd.

Project: Dinero State 005

Sample ID: MB-59419 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 59419 RunNo: 76743

Prep Date: 4/15/2021 Analysis Date: 4/16/2021 SeqNo: 2719680 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Diesel Range Organics (DRO) ND 10

Motor Oil Range Organics (MRO) ND 50

Surr: DNOP 11 10.00 111 70 130

Sample ID: LCS-59419 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 59419 RunNo: 76743

5.6

Prep Date: 4/15/2021 Analysis Date: 4/16/2021 SeqNo: 2719681 Units: mg/Kg

5.000

SPK value SPK Ref Val %REC Analyte PQL LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 56 10 50.00 112 68.9 141

111

70

130

Surr: DNOP

Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2104599 20-Apr-21**

Client: Vertex Resource Group Ltd.

Project: Dinero State 005

Sample ID: mb-59408 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 59408 RunNo: 76718

Prep Date: 4/14/2021 Analysis Date: 4/15/2021 SeqNo: 2718245 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 104 70 130

Sample ID: Ics-59408 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 59408 RunNo: 76718

Prep Date: 4/14/2021 Analysis Date: 4/15/2021 SeqNo: 2718246 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 96.6 78.6 131 Surr: BFB 1100 1000 70 112 130

Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 8 of 9

Hall Environmental Analysis Laboratory, Inc.

WO#: **2104599**

20-Apr-21

Client: Vertex Resource Group Ltd.

Project: Dinero State 005

Sample ID: mb-59408 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: 59408 RunNo: 76718

Prep Date: 4/14/2021 Analysis Date: 4/15/2021 SeqNo: 2718297 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 1.0 1.000 99.5 70 130

Sample ID: LCS-59408 SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: **LCSS** Batch ID: **59408** RunNo: **76718**

Prep Date: 4/14/2021 Analysis Date: 4/15/2021 SeqNo: 2718298 Units: mg/Kg

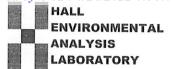
Prep Date. 4/14/2021	Arialysis I	Jaie. 4/	15/2021		Seq110. 2718298 C		Office. Ing/h	.g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	91.1	80	120			
Toluene	0.92	0.050	1.000	0	92.1	80	120			
Ethylbenzene	0.91	0.050	1.000	0	91.2	80	120			
Xylenes, Total	2.7	0.10	3.000	0	91.1	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		99.6	70	130			

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Sample Log-In Check List

Website: clients.hallenvironmental.com Client Name: Vertex Resource Group Work Order Number: 2104599 RcptNo: 1 Hearing Received By: Juan Rojas 4/14/2021 7:32:00 AM Completed By: Cheyenne Cason, 4/14/2021 8:02:46 AM SPA 4. 17. 21 Reviewed By: Chain of Custody 1. Is Chain of Custody complete? No 🗌 Yes 🗸 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? No 🗸 Yes NA 🗌 9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes No 🗌 NA 🗸 Yes 10. Were any sample containers received broken? No 🗸 # of preserved bottles checked 11. Does paperwork match bottle labels? Yes 🗸 No 🔲 for pH: (Note discrepancies on chain of custody) (<2 or >12 unless noted) Adjusted? 12. Are matrices correctly identified on Chain of Custody? No \square Yes 🗸 13. Is it clear what analyses were requested? Yes 🗸 No 🗌 14. Were all holding times able to be met? Yes 🗸 No 🗌 Checked by: (If no, notify customer for authorization.) 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 3.0 Good

Chain-of-Custody Record	Turn-Around Time: S-dey	HALL ENVIRONMENTAL
Imag	 ai	=
:saiing Address:	Divor State #005	37109
1//16/		
Phone #:	21E-20037	Analysis Request
6 email or Fax#:	Project Manager:	(O)
Section Standard □ Level 4 (Full Validation)	m) Moica Boois	PCB's
☐ Az Con	Sampler:	1 S80 (1.) (1) (2) (2)
□ NELAC □ Other	On Ice: Ares 🗆 No	8/8 8/8 90 00 8 9, 10
□ EDD (Type)	# of Coolers: į	od (GP) od (Sp) objectives objective object
	Cooler Temp(including CF): 7.9+0.1=3.0(°C)	estic Methory 83 8 Me B Me Br, 1 JOA
Date Time Matrix Sample Name	Container Preservative Z O4549	BTEX/ 8081 P EDB (N PAHs P RCRA 8260 (V 8260 (V 8270 (S
4-12 8:50 50:1 18531-11	-3	
H- 1889 1 5518	220	
9.00 BSA -20	003	
9:05 1881 36	h00	
81-185m 51:6	500	
-		~
ate: Ti		Remarks: CC, Menraco Ross
2		ii 2
Date: Time: Relinquished by:)ate /13/2	259 of 2
If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This	ie subcontracted to other accredited laboratories. This serves as potice of this	This serves as potice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



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

May 03, 2021

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

FAX:

RE: Dinero State 005 OrderNo.: 2104C28

Dear Monica Peppin:

Hall Environmental Analysis Laboratory received 1 sample(s) on 4/29/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report Lab Order 2104C28

Date Reported: 5/3/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resource Group Ltd. Client Sample ID: WS21-07 0-2.5'

 Project:
 Dinero State 005
 Collection Date: 4/27/2021 9:50:00 AM

 Lab ID:
 2104C28-001
 Matrix: SOIL
 Received Date: 4/29/2021 7:35:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	: VP
Chloride	120	60	mg/Kg	20	5/1/2021 5:19:39 PM	59753
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst:	SB
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	5/1/2021 4:04:03 PM	59724
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/1/2021 4:04:03 PM	59724
Surr: DNOP	100	70-130	%Rec	1	5/1/2021 4:04:03 PM	59724
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/30/2021 8:09:46 PM	59714
Surr: BFB	89.4	70-130	%Rec	1	4/30/2021 8:09:46 PM	59714
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.024	mg/Kg	1	4/30/2021 8:09:46 PM	59714
Toluene	ND	0.049	mg/Kg	1	4/30/2021 8:09:46 PM	59714
Ethylbenzene	ND	0.049	mg/Kg	1	4/30/2021 8:09:46 PM	59714
Xylenes, Total	ND	0.098	mg/Kg	1	4/30/2021 8:09:46 PM	59714
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	4/30/2021 8:09:46 PM	59714

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

Qualifiers:

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

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

Page 1 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: **2104C28**

03-May-21

Client: Vertex Resource Group Ltd.

Project: Dinero State 005

Sample ID: MB-59753 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 59753 RunNo: 77084

Prep Date: 5/1/2021 Analysis Date: 5/1/2021 SeqNo: 2732632 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-59753 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 59753 RunNo: 77084

Prep Date: 5/1/2021 Analysis Date: 5/1/2021 SeqNo: 2732633 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 92.0 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 Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 2 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: **2104C28**

03-May-21

Client: Vertex Resource Group Ltd.

Project: Dinero State 005

Sample ID: LCS-59724	SampT	ype: LC	S	TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch	n ID: 59	724	F	RunNo: 7	7087					
Prep Date: 4/30/2021	Analysis D	oate: 5/	1/2021	9	SeqNo: 2	732831	Units: mg/k	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	51	10	50.00	0	103	68.9	141				
Surr: DNOP	5.4		5.000		108	70	130				
Sample ID: LCS-59746	SampT	ype: LC	s	TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch	n ID: 59	746	RunNo: 77087							
Prep Date: 4/30/2021	Analysis D	oate: 5/	1/2021	SeqNo: 2732834 Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: DNOP	5.1		5.000		101	70	130				
Sample ID: MB-59724	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics		
Client ID: PBS	Batch	n ID: 59	724	F	RunNo: 7	7087					
Prep Date: 4/30/2021	Analysis D	oate: 5/	1/2021	9	SeqNo: 2	732844	Units: mg/k	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	ND	10									
Motor Oil Range Organics (MRO)	ND	50									
Surr: DNOP	9.5		10.00	10.00 94.9 70 130							

Sample ID: MB-59746	SampTy	/pe: ME	BLK	Test	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch	ID: 59	746	R	tunNo: 7	7087							
Prep Date: 4/30/2021	Analysis Da	ate: 5/	1/2021	S	SeqNo: 2	732846	Units: %Rec						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit		HighLimit	%RPD	RPDLimit	Qual			
Surr: DNOP	9.5		10.00		94.6	70	130						

Sample ID: 2104C15-001AMS	Samply	pe: MS	Š	Tes	lestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BatchQC	Batch	ID: 59	746	F	RunNo: 7	7087							
Prep Date: 4/30/2021	Analysis Da	te: 5/	/1/2021	8	SeqNo: 2	732926	Units: %Rec						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Surr: DNOP	5.0	·	3.826		130	70	130	·	•	•			

Sample ID: 2104C15-001AMSI	S ampTy	/pe: M \$	SD	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	e Organics	
Client ID: BatchQC	Batch	ID: 59	746	R	RunNo: 7	7087				
Prep Date: 4/30/2021	Analysis Da	ate: 5/	/1/2021	SeqNo: 2732927			Units: %Rec	;		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.7		4.812	_	97.2 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 Quanitative Limit

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

Page 3 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: **2104C28**

03-May-21

Client: Vertex Resource Group Ltd.

Project: Dinero State 005

Sample ID: 2104C20-001AMS SampType: MS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: BatchQC Batch ID: 59724 RunNo: 77087

Prep Date: 4/30/2021 Analysis Date: 5/1/2021 SeqNo: 2732928 Units: mg/Kg

PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual Analyte Result LowLimit Diesel Range Organics (DRO) 0 49 9.9 49.26 100 15 184

Surr: DNOP 5.1 4.926 104 70 130

Sample ID: 2104C20-001AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: BatchQC Batch ID: 59724 RunNo: 77087

Prep Date: 4/30/2021 Analysis Date: 5/1/2021 SeqNo: 2732929 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 23.9 45 9.3 46.43 0 97.7 15 184 8.71 Surr: DNOP 4.2 91.0 70 0 0 4.643 130

Qualifiers:

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

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

Page 4 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: **2104C28**

03-May-21

Client: Vertex Resource Group Ltd.

Project: Dinero State 005

Sample ID: MB-59714 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: **PBS** Batch ID: **59714** RunNo: **77068**

Prep Date: 4/29/2021 Analysis Date: 4/30/2021 SeqNo: 2732562 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 900 1000 90.4 70 130

Sample ID: LCS-59714 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 59714 RunNo: 77068

Prep Date: 4/29/2021 Analysis Date: 4/30/2021 SeqNo: 2732563 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Gasoline Range Organics (GRO)
 22
 5.0
 25.00
 0
 86.5
 78.6
 131

 Surr: BFB
 990
 1000
 98.9
 70
 130

Sample ID: 2104c20-001ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range

Client ID: BatchQC Batch ID: 59714 RunNo: 77068

Prep Date: 4/29/2021 Analysis Date: 4/30/2021 SeqNo: 2732565 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Gasoline Range Organics (GRO)
 26
 5.0
 24.75
 0
 105
 61.3
 114

 Surr: BFB
 1000
 990.1
 102
 70
 130

Sample ID: 2104c20-001amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: BatchQC Batch ID: 59714 RunNo: 77068

Prep Date: 4/29/2021 Analysis Date: 4/30/2021 SeqNo: 2732566 Units: mg/Kg

SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Result PQL LowLimit Qual Gasoline Range Organics (GRO) 24 5.0 24.93 95.0 61.3 114 9.27 20 Surr: BFB 1000 997.0 101 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 Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 5 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: **2104C28**

03-May-21

Client: Vertex Resource Group Ltd.

Project: Dinero State 005

Sample ID: MB-59714 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: 59714 RunNo: 77068

Prep Date: 4/29/2021 Analysis Date: 4/30/2021 SeqNo: 2732606 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 1.0 1.000 102 70 130

Sample ID: LCS-59714 SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: LCSS Batch ID: 59714 RunNo: 77068

2.9

1.0

0.98

0.099

2.973

0.9911

0.9634

Prep Date: 4/29/2021	Analysis [Date: 4/	30/2021	5	SeqNo: 2	732607	Units: mg/K			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	96.0	80	120			
Toluene	0.97	0.050	1.000	0	97.5	80	120			
Ethylbenzene	0.97	0.050	1.000	0	96.7	80	120			
Xylenes, Total	2.9	0.10	3.000	0	97.6	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		102	70	130			

Sample ID: 2104c23-001ams SampType: MS TestCode: EPA Method 8021B: Volatiles Client ID: BatchQC Batch ID: 59714 RunNo: 77068 Prep Date: 4/29/2021 Analysis Date: 4/30/2021 SeqNo: 2732610 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 0.025 91.8 76.3 0.91 0.9911 120 Benzene O Toluene 0.94 0.050 0.9911 0 95.2 78.5 120 0 95.8 78.1 Ethylbenzene 0.95 0.050 0.9911 124

0

96.9

101

79.3

70

70

125

130

130

0

TestCode: EPA Method 8021B: Volatiles Sample ID: 2104c23-001amsd SampType: MSD Client ID: **BatchQC** Batch ID: 59714 RunNo: 77068 Prep Date: 4/29/2021 Analysis Date: 4/30/2021 SeqNo: 2732611 Units: mg/Kg SPK value SPK Ref Val %REC **RPDLimit** Analyte Result PQL LowLimit HighLimit %RPD Qual 0.99 0.024 0.9634 0 102 80 120 7.93 20 Benzene Toluene 1.0 0.048 0.9634 0 107 80 120 8.52 20 Ethylbenzene 1.0 0.048 0.9634 0 108 80 120 9.59 20 Xylenes, Total 3.1 0.096 2.890 0 108 80 120 7.85 20

Qualifiers:

Xylenes, Total

Surr: 4-Bromofluorobenzene

- * Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix

Surr: 4-Bromofluorobenzene

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

102

- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 6 of 6

0



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

Sample Log-In Check List

Client Name:	Vertex Resource Group Ltd.	Work Order Number	er: 210	4C28			RcptNo: 1	-
Received By:	Juan Rojas	4/29/2021 7:35:00 AI	М		Hear	any		
Completed By:	Cheyenne Cason	4/29/2021 8:53:11 AI	VI		Glend	1		
Reviewed By:	ENM	4129/21			Capital			
Chain of Cus	<u>stody</u>							
1. Is Chain of C	ustody complete?		Yes	✓	No		Not Present	
2. How was the	sample delivered?		Cou	<u>rier</u>				
Log In								
3. Was an attern	npt made to cool the samples?		Yes	✓	No		NA 🗆	
4. Were all samp	ples received at a temperature	of >0° C to 6.0°C	Yes	v	No		NA 🗆	
5. Sample(s) in	proper container(s)?		Yes	V	No			
6. Sufficient sam	ple volume for indicated test(s)?	Yes	V	No			
7. Are samples (except VOA and ONG) proper	y preserved?	Yes	✓	No			
8. Was preserva	tive added to bottles?		Yes		No	V	NA 🗆	
9. Received at le	east 1 vial with headspace <1/4	" for AQ VOA?	Yes		No		NA 🗹	
10. Were any san	nple containers received broke	n?	Yes		No	V	# of preserved	20
11 D							bottles checked	4/29/21
	ork match bottle labels? ancies on chain of custody)		Yes	V	No		for pH: (\$2 or >12	unless noted)
	correctly identified on Chain of	Custody?	Yes	V	No		Adjusted?	amood motod)
	t analyses were requested?	-	Yes	V	No			
	ng times able to be met? ustomer for authorization.)		Yes	✓	No		Checked by:	
	ing (if applicable)							
	tified of all discrepancies with	his order?	Yes		No		NA 🗸	
Person	Notified:	Date:			THE PARTY OF THE P	enteriory.		
By Who	om:	Via:	eM.	ail 🗌	Phone	Fax	In Person	
Regardi	ng:		POSSESSION STREET, STR			nego martinet per		
Client In	nstructions:	A STATE OF THE STA	A TOPHON TOWNS WHEN	Sect Assessment Section 1	A Parameter Control	THE STAND SETS	PORTOR DE LA CONTRACTOR	
16. Additional rer	marks:							
17. Cooler Inform	mation							
Cooler No		eal Intact Seal No	Seal D	ate	Signed E	Зу		
1	0.4 Good							

Received by OCD): 6/24/202 <u>1</u>	4:3	6:09 PM				_						 		Page	268 of 27	
HALL ENVIRONMENTAL ANALYSIS LABORATORY	4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107	phay signify	3's (8021) 3'O / MRO 9'O / MSO 9'S SO 10'S SO	70 / DP O DP O DP O DP O O DP O O O O O O O O O	(GR 3 bd 5 bd 10 0 10 d 10 d 10 d	estice Methory 83 8 Me 3r, N AOA)	8081 Р 8081 Р РАНЗ Г ВССВА ВССВА В ССВА В ССВО (У	1					7.5			Remarks: CC, Menica (eggi)	Time: Relinquished by: Received by: Via: Date Time Date Date Time Matches Mat
Turn-Around Time: Salary A Standard Rush Project Name:	State	+	Monica Femina	Sampler: ∑ B Ves □ No	olers: (Cooler Temp(including cF): 3.5.0.1 = 0.4 (°C)	Container Preservative HEAL No. Type and # Type	402 1'Ce AN)		*				T Inglisher	Received by Via: Date Time R	Received by: Via: 1 Date Time Date Tim
Chain-of-Custody Record	Mailing Address: On £ //2	moil or Fov#:	©A/QC Package: ☐ Standard ☐ Level 4 (Full Validation)	Accreditation: Az Compliance Difference Other	ype)_	F ₀	Date Time Matrix Sample Name	1.05		Vol.						Daye: Time: Relinquished by:	Time: Relinquished by:

ATTACHMENT 8

Monica Peppin

From: Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Sent: Monday, May 24, 2021 11:36 AM

To: Monica Peppin

Subject: Fwd: nAPP2105530312 Extension Request Dinero St #005

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

From: Dhugal Hanton < vertexresourcegroupusa@gmail.com >

Date: Mon, May 24, 2021 at 11:35 AM

Subject: nAPP2105530312 Extension Request Dinero St #005

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

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

Good afternoon,

Vertex Resources is requesting a 30-day extension for the Dinero State #005. The closure report is under review and will be completed by the end of week.

Incident # nAPP2105530312 DOR: February 23, 2021.

Thank you, Monica

Monica Peppin

Project Manager

Vertex Resource Group Ltd. 3101 Boyd Drive, Carlsbad, NM 88220

P 575.725.5001 Ext. 711 C 575.361.9880 F

www.vertex.ca

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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

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 33671

CONDITIONS

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	33671
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
chensley	None	7/16/2021